



REVISED PHASE II SITE ASSESSMENT REPORT

Property Identification:

**ECSI #6575
8975 & 8981 SE 76TH DRIVE
PORTLAND, OREGON 97206**

Prepared For:

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&
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Property Owner:

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1.0 INTRODUCTION

Alpha Environmental Services (Alpha) is providing this Revised Phase II Environmental Site Assessment for the property located at 8975 & 8981 SE 76th Drive, Portland, Oregon (the Property). The purpose of the investigation was an attempt to define the vertical and lateral extent of contamination from unknown sources. This report summarizes the current scope of work, field investigation activities and laboratory analyses, and provides conclusions and recommendations.

1.1 Site Description

The Property consists of one Tax Lot 12E29AC00602 (C230672) located in Township 1 South, Range 2 East, Section 29, Willamette Meridian. The parcel has a total of 0.21-acres. The southern part of the Property is occupied by the building and the northern part is gravel parking/storage. The site is currently vacant.

The vicinity of the Property can generally be described as commercial and residential. Current usage of the adjoining properties includes: north – RV rental and auto repair with Johnson Creek beyond; south – commercial development; east – residential development; and west – commercial development.

1.2 Current Zoning and Future Land Use

The zoning is Light Industrial by Clackamas County. The future zoning of the property is anticipated to remain the same.

1.3 Site Drainage

The southern part of the property is covered with the building or impervious asphalt and the northern part is gravel. Stormwater appears to sheet flow across the asphalt to 76th Drive. Stormwater on the gravel naturally infiltrates into the ground.

1.4 Sewer Connections

The property connected to the sanitary sewer and is serviced by the City of Portland.

1.5 Geology and Groundwater

The Property is situated within the Willamette Valley, which is a portion of the Puget Trough physiographic sub province of the Pacific Mountain System geological province of the State of Oregon. This area consists of fluviolacustrine sedimentary deposits. Underlying the area is unconsolidated silt, sand, gravel and clay. Generally, this specific area consists of fine-grained material, but gravel layers may also be found there to some extent. (Walker, et al., 1991).

According to the Water Resources Department (WRD) online database and groundwater monitoring wells in the area, static groundwater appears to be located approximately 8 to 16 feet below surface grade (bsg). The flow of groundwater typically imitates the surface topography and ordinarily flows from higher to lower elevations. The near surface flow may be influenced by stratigraphy, water bodies, rainfall, underground utilities and other subsurface features. Based on the groundwater available and topography, groundwater is anticipated to flow to the north/northwest.

The nearest major surface water in the vicinity of the Property is the Johnson Creek, located approximately 220 feet north of the Property.

1.6 Groundwater Wells

According to the Oregon Water Resources Department (WRD) online database, a total of 8 domestic water wells were identified within the same township and range sections of (T1S R2E S29). Four of the wells are no longer in use and are abandoned, three wells have no address given and one well is greater than 1000 feet and hydraulically upgradient. The table below summarizes the well use, well status and approximate distance for the Property.

Well Summary and Potential Pathway

Well ID	Status	Address or Location Given	Distance from Site	Direction
343	Abandoned	Old 82 nd Drive in	-	-
345	Assumed Active	None address/tax lot given or 1/4-1/4 section	Unknown	Unknown
348	Assumed Active	9650 SE Wichita Ave	2000'	SE - Crossgradient
349	Assumed Active	None address/tax lot given or 1/4-1/4 section	Unknown	Unknown
54370	Assumed Active	7609 SE Overland St	700'	S - Upgradient
75246	Abandoned	7900 SE Luther	-	-
75381	Abandoned	7800 SE Luther	-	-
76671	Abandoned	7016 SE Fern	-	-

The well log search and the groundwater flow direction indicate there are no domestic wells in the vicinity of the Property that could be affected by impacted groundwater at the site.

Based on the above information, the shallow groundwater ingestion pathway appears to be incomplete for human receptors.

2.0 PREVIOUS INVESTIGATIONS

2.1 Site History

The following site history has been reproduced from the Phase I ESA conducted by Silva Environmental Consulting & Assessments (SECA) on January 27, 2020.

Historical records indicate that the subject property was vacant undeveloped land prior to construction of the existing building in the 1960's. Historical aerial photographs between 1936 and 1963 did not indicate any structures, development features or obvious use of the subject property. It is SECA's understanding that the south and southwest areas of the general industrial park area around the subject property were sections of an old gravel pit. The specific area of the subject property appeared to be a grass field with heavy vegetation (aerial photos).

The subject property was commercially developed with the construction of the existing warehouse building in the mid-late 1960's. The property was vacant in the 1963 aerial photo and the existing building was present in the 1970 aerial. The former adjacent property owner and prior reports indicated that the property and adjacent properties were developed by the Hartman family in the 1960's. The subject property building and storage yard may have been part of the motorhome/RV fabrication shop operated by the Hartman's. The Anderson family moved to the property in the 1980's and operated their small vehicle canopy manufacturing business at the site (Anderson Canopies) until July of 2018; when Mr. Anderson passed away.

2.2 Previous Phase II ESA Summary

A review of the sampling conducted by K&S indicates PCE, TCE and gasoline detections exceeded current groundwater RBCs for vapor intrusion into buildings. Other detected constituents are below the RBCs. The K&S report concludes the impacts are from an offsite source; however, the lower detections in the upgradient sample locations do not seem to support that conclusion. A summary of the investigation is reproduced below.

On January 14, 2020, K&S installed borings B-1, B-2 and B-3 on the property located at 8975 SE 76th Drive in Portland, OR. A total of 3 soil samples were collected from the three borings and were analyzed for total petroleum hydrocarbons (TPH). No TPH was detected in any of the three soil samples collected. Gasoline constituents were detected in two of the three groundwater samples analyzed. Although there is a documented issue with PCE and TCE contamination from other off site sources in the area, higher than anticipated concentrations of PCE and TCE were detected in the water sample collected from boring B-2 located near the north property line of the site. The concentrations of all the constituents of concern were within DEQ's Risk-Based Concentrations (RBCs) for the applicable pathways at the site, but additional investigation was recommended to confirm there were no onsite sources that might be contributing to the gasoline, PCE and TCE contamination detected along the north and west property lines.

Soil samples collected from borings B-4 through B-9 did not contain detectable levels of gasoline range TPH. Sample W7 contained gasoline TPH just over the detection limit. No other water samples contained detectable levels of gasoline TPH. Low levels of Tetrachloroethene (PCE) and/or Trichloroethene (TCE) were detected in the groundwater samples collected from borings B-4 through B-9. The gasoline range TPH, PCE and TCE concentrations detected in samples collected from borings B-4 through B-9 suggest that no onsite sources contributed to the slightly elevated levels of gasoline TPH, PCE and TCE detected along the north and west property lines during the 1/14/20 site investigation.

2.3 Potential Upgradient Sites

Alpha performed a cursory review of several documents provided by the DEQ relating to possible upgradient and regional groundwater contamination. Based on the review, Alpha could not determine a specific upgradient source that was directly contributing to the site. Regional groundwater in the is known to be impacted by PCE and TCE and there is a possibility an offsite source exists.

2.4 Lender Requirements

Chase Phase 2 Requirements:

Concern: One of the groundwater samples (W2) collected at the north end of the property, included high concentrations of PCE (1,770 ppb) and TCE (189 ppb). This seems to be the only hot spot from the sampling performed at the property to date.

Recommended additional work: ERM is requiring additional investigation in this area. Ideally, the scope would include three to four soil and groundwater samples collected at locations that would bracket, or surround, the W2 sample location. Analysis could be limited to PCE and TCE as we have no evidence of groundwater contamination from other constituents.

3.0 PURPOSE AND SCOPE

3.1 Purpose

The purpose of the current investigation was an attempt to determine the possible extent of soil and groundwater impacts. Alpha relied upon the previous reports, maps and communication with the Lender to develop the scope of work for this investigation. The general scope of work for this investigation consisted of the following activities:

- Contacting One Call Oregon for public locates to mark utility services entering the Property.
- A utility survey to determine the location of subsurface features prior to drilling.
- The advancement of four borings using a track-mounted direct-push drill rig at specific locations around Property.
- The collection of soil and groundwater samples from borings for visual observation and laboratory analysis.
- The presentation of results for the investigation including findings, conclusions and recommendations.

3.2 Accepted Scope of Services

The assessment was performed according to the agreed-upon scope of services between Alpha and Chris Carlson. The assessment was completed in general accordance with the authorized scope of work listed above.

4.0 FIELD INVESTIGATION AND SAMPLING PROCEDURES

4.1 Preliminary Field Work

Prior to sampling, Alpha filed a public utility locate request with One Call Oregon and utilities were marked by respective utility companies where they entered the Property.

Alpha subcontracted Pacific NW Locating to perform a utility survey of the Property in preparation for the additional drilling.

4.2 Boring Location Rationale

The boring locations were chosen based on the previous sample locations performed by K&S Environmental.

4.3 Drilling and Sampling Activities

Field investigation and drilling activities were conducted on April 14, 2023 under the supervision of Mr. Matt Holmstrom, staff geologist for Alpha. The subsurface sampling consisted of the advancement of four shallow soil borings advanced by Cascade Drilling using a track-mounted direct-push drill rig. The borings were advanced and sampled in 5-foot intervals to approximately 15 feet below surface grade (bsg).

Soil samples were collected using a single-use thin-walled polyethylene tube inserted inside a stainless-steel sampling tube. In between each boring, the push probe sampler, the outer tubing and inner sampling rods were decontaminated.

Soil lithology was observed and logged by slicing the disposable sample tube along the longitudinal axis. Soil samples were field screened for visual and olfactory signs of petroleum contamination along with headspace vapor screening for volatile organic compounds using a hand-held photoionization detection (PID) meter. Representative samples were placed in Ziplock storage back and left to equalize for approximately 5 to 10 minutes before readings were taken.

The soil samples were placed in laboratory-provided glass jars, capped with Teflon[®]-lined lids and placed in a cooler on ice. The soil samples were transported to Alpha's designated sample refrigerator until picked up by an Apex Laboratory courier.

Samples were handled under chain-of-custody protocol and analyzed by test method NWT PH-Gx (quantifies gasoline range petroleum hydrocarbons) and EPA Test Method 8260 VOCs.

4.4 Soil Boring Details

Identification	Purpose	Type	Drilling Depth	Sampled Media	Analysis
B1	Site Assessment	Direct-push	15'	Soil	NWTPH-Gx & VOCs
B2	Site Assessment	Direct-push	15'	Soil	NWTPH-Gx & VOCs
B3	Site Assessment	Direct-push	15'	Soil	NWTPH-Gx & VOCs
B4	Site Assessment	Direct-push	15'	Soil	NWTPH-Gx & VOCs

4.5 Selection of Soil Samples for Chemical Analyses

Soil samples from select borings were collected from the depth interval with the greatest contamination, highest PID readings as based on field observations or at the termination of the boring. An additional sample was collected from Boring B3 to evaluate a potential impact at 4 feet below ground surface.

4.6 Boring Abandonment

After samples were collected, the borings were abandoned by filling with bentonite chips in accordance with the Oregon Water Resources Department (WRD) requirements.

5.0 QUALITY ASSURANCE & QUALITY CONTROL

For the project, all data used for closure purposes complied with the DEQ's Quality Assurance Project Plan (QAPP) for the Site Investigations, DEQ05-LQ-069-QAPP, Version 2.2, dated August 14, 2012.

5.1 Field Equipment & Decontamination

Disposable field equipment used for this project include nitrile gloves, plastic spoons, drill core liners, Terra Core™ samplers and Ziplock bags. Reusable field equipment included a soil cutting knife.

Soil samples were field screened for gasoline/VOCs using a MiniRAE 2000 hand-held PID meter. The meter was calibrated by Life Safety on April 7, 2023. Prior to using in the field, the meter was calibrated with a fresh air check and subsequently checked using 100 ppm isobutylene. The meter readings were within 2% of the calibration standard.

Decontamination of Alpha supplied reusable field equipment included manual removal of particles, wash with Alconox solution, rinse with tap water, wash with Alconox solution and rinse with distilled water. In between each boring, the driller rinsed all sample tubing, cutting bits, etc. with a hot water pressure rinse.

5.2 Field Screening

The soil samples from the investigation were obtained directly from direct-push disposable liners. The liners were split open along the longitudinal axis and laid open for visual observation. Any obviously impacted soil was placed directly into both laboratory-provided jars and a Ziplock bag using new disposable nitrile gloves. The material in the Ziplock was checked using a PID meter. A new set of gloves was donned after any sample handling and between each interval of sample collected.

5.3 Sample Collection

Samples from the investigation were collected directly from direct-push disposable liners. For samples collected for gasoline/ VOC analysis, the sample of the soil was collected following EPA Method 5035A using a Terra Core™ sampling tool and placed in a pre-tared vial containing preservative with a septum-sealed screw cap. Once sealed, the sample was not exposed to the atmosphere until analysis was conducted. The sample collection process was completed in the least amount of time in order to minimize the loss of VOCs due to volatilization.

5.4 Sample Identification

Soil sample containers were labeled with the project name and number, the time of sampling, sampler's initials, sample designation and date. The chain of custody was completed, placed in a Ziplock bag and put to the cooler.

5.5 Sample Transport

The samples were packed in reusable ice with an appropriate temperature blank(s), which consisted of a 100-ml polyethylene bottle filled with clean water.

Containers were placed upright in the cooler and cushioned by bubble wrap. Ice packets were placed around and on top of the sample containers. The samples were transported by the geologist to Alpha's personnel protected sample refrigerator. A courier from Apex picked the samples up directly from Alpha's designated sample refrigerator and delivered the samples to Apex Laboratories in Tigard, Oregon. Delivery occurred within 24 hours of sampling and samples were kept refrigerated and/ or on ice during storage and transport.



Samples were handled under chain-of-custody protocol in which the custody form was signed and dated by the Alpha personnel. Upon pickup of the samples, personnel at Apex Laboratories examined and recorded the condition of the sample containers, signed the custody form, and transferred the samples to their coolers. A completed copy of the chain-of-custody form is included at the end of the laboratory analytical report.

6.0 SAMPLE ANALYTICAL RESULTS

6.1 Soil Findings

NWTPH-Gx Results

The NWTPH-Gx analytical results indicate that gasoline was detected in Borings B3 and B4. The highest concentrations were from Boring B3@4' feet bsg (131 ppm) and Boring B3@15' (191 ppm). The results indicate all detections are below the applicable RBCs.

A summary of the results for the soil analysis is presented in Table 1. Laboratory analytical reports are included as Appendix A.

Table 1 – Soil Sample Analytical Results – NWTPH-Gx

Boring No.	Location of Sample	Sample Depth in Feet	Petroleum
			Gasoline
			mg/kg
B1	North end of gravel lot - East of W2	15	ND
B2	North end of gravel lot - North of W2	15	ND
B3	North end of gravel lot - East of W2	4	131
		15	191
B4	North end of gravel lot - South of W2	15	23.7
DEQ Risk-Based Screening Levels			
Volatilization to Outdoor Air			69,000
Vapor Intrusion into Buildings (Occupational)			> Max
Direct Contact (Construction Worker)			9,700
Direct Contact (Excavation Worker)			> Max

ND = Analyte Not Detected at or above laboratory reporting limit (See Laboratory Report) All reporting limits are below the RBCs.
mg/kg = milligram per kilogram or parts per million (ppm)

VOCs Results

The analytical results indicate that various VOCs were detected in all borings. The highest concentrations were encountered in Borings B3 and B4. The detected concentrations of PCE in Boring B3 exceed the Vapor Intrusion into Buildings RBC.

A summary of the results for the soil analysis is presented in Table 2. Laboratory analytical reports are included as Appendix A.

Table 2 – Soil Sample Analytical Results – VOCs

Boring Number and Depth	VOCs			
	Cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	All Other Analytes
	mg/kg	mg/kg	mg/kg	mg/kg
B1@15'	ND <0.0247	0.678	ND <0.0247	ND
B2@15'	0.0470	0.780	0.0405	ND
B3@15'	0.540	73.9*	0.828	ND
B4@15'	0.0497	8.73	0.118	ND
DEQ Risk-Based Screening Levels				
Volatilization to Outdoor Air	> Max	>CSat	96	-
Vapor Intrusion into Buildings (Occupational)	> Max	36	2.3	-
Direct Contact (Construction Worker)	710	1,800	130	
Direct Contact (Excavation Worker)	20,000	50,000	3,700	-

73.9 = Highlighted indicates the constituent exceeded the vapor intrusion soil RBC. * The DEQ has recently updated guidance on vapor intrusion and determined soil values are not a reliable indicator of determining potential vapor intrusion risk.

ND = Analyte Not Detected at or above laboratory reporting limit (See Laboratory Report) All reporting limits are below the RBCs.

mg/kg = milligram per kilogram or parts per million (ppm)

>CSat = This soil RBC exceeds the limit of the three-phase equilibrium partitioning.

6.2 Groundwater Findings

Petroleum

The analytical results indicate that gasoline was detected in Borings B2, B3 and B4. The detected concentrations of gasoline in Boring B3 exceed the Vapor Intrusion into Buildings RBC.

A summary of the results for the groundwater analysis is presented in Table 3. Laboratory analytical reports are included as Appendix A.

Table 3 – Groundwater Sample Analytical Results – NWTPH-Gx

Boring No.	Location of Sample	Petroleum
		Gasoline
		ug/L
B1	North end of gravel lot - East of W2	ND
B2	North end of gravel lot - North of W2	1,940
B3	North end of gravel lot - East of W2	28,200
B4	North end of gravel lot - South of W2	10,100
DEQ Risk-Based Screening Levels		
Volatilization to Outdoor Air		>S
Vapor Intrusion into Buildings (Occupational)		520
Direct Contact (Construction & Excavation Worker)		14,000

28,200 = Highlighted indicates the constituent exceeded the vapor intrusion RBC.

ND = Analyte Not Detected at or above laboratory reporting limit (See Laboratory Report) All reporting limits are below the RBCs.

ug/L = microgram per liter (ppb)

>S = The groundwater RBC exceeds the solubility limit.

VOCs

The analytical results indicate that VOCs were detected in all groundwater samples. The detected concentrations of PCE in Boring B3 exceeded the Direct Contact RBC for an Excavation Worker; however, this pathway would only be complete is deep excavation was performed in this area.

A summary of the results for the groundwater analysis is presented in Table 5. Laboratory analytical reports are included as Appendix A.

Table 4 – Groundwater Sample Analytical Results – VOCs

Boring Number	VOCs			
	Cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	All Other Analytes
	mg/kg	mg/kg	mg/kg	mg/kg
B1	53.0	1,210	29.5	ND
B2	86.6	823	56.8	ND
B3	188	12,700	134	ND
B4	140	3,290	116	ND
DEQ Risk-Based Screening Levels				
Volatilization to Outdoor Air	>S	>S	20,000	-
Vapor Intrusion into Buildings (Occupational)	1,800	130	13	-
Direct Contact (Construction Worker)	710	1,800	130	
Direct Contact (Excavation Worker)	20,000	50,000	3,700	-

12,700 = Highlighted indicates the constituent exceeded the RBC.

ND = Analyte Not Detected at or above laboratory reporting limit (See Laboratory Report) All reporting limits are below the RBCs.

ug/L = microgram per liter (ppb)

>S = The groundwater RBC exceeds the solubility limit.

7.0 RISK-BASED EVALUATIONS

7.1 Sample Results Evaluation

In order to evaluate the current and reasonably likely future risk to human health and the environment, Alpha compared the data from the current investigation to the Oregon Department of Environmental Quality (DEQ) risk-based decision making (RBDM) guidelines.

The RBDM process involves investigating potential sources of the contaminants and the environmental media in which they are contained (e.g., soil or groundwater), receptors (who could potentially be exposed to contaminants), and the exposure pathway (how a receptor might come in contact with contaminants [e.g., inhalation, ingestion or dermal contact]). If any of these elements is missing, the pathway is considered incomplete. This was accomplished by constructing a Conceptual Site Model (CSM).

Using the parameters listed above, the laboratory detected concentrations and/or the reporting limits were compared to DEQ Risk-Based Concentrations (RBCs). An RBC is the concentration of a hazardous substance in soil, water, air or sediment that is determined to be protective of human health and the environment under specified exposure conditions.

Since contamination exists on the site, the following receptors and pathways are applicable.

Potential Receptors:

Occupational

Selected Pathways for Receptor:

- Volatilization to outdoor air from soil
- Vapor intrusion into buildings from soil
- Volatilization to outdoor air from groundwater
- Vapor intrusion into buildings from groundwater

Excavation Worker

Selected Pathways for Receptor:

- Dermal Contact, Ingestion & Inhalation from soils greater than 3 feet below surface
- Groundwater in excavation (Construction & Excavation Worker)

7.2 Conceptual Site Models

A conceptual site model (CSM) describes the known or suspected sources of contamination, considers how the contaminants are likely to migrate (pathways), and identifies who is likely to be affected by the contaminants (receptors). In order for risk to be present at the site, a source must be present, a pathway must be complete and a receptor must be present.

The risk is evaluated for each contaminant of interest (COI) in order to determine whether risk is present at a site. Current conditions as well as anticipated future conditions are considered when developing the CSM.

7.3 Potential Onsite Sources

Based on the previous investigations, the former site tenants (Anderson Canopies) apparently stored chemicals in drums located in the open storage yard. It is unknown if the former operation used PCE and/or TCE in their manufacturing operation. A former cesspool may also have been a conduit for contamination to reach the groundwater.

7.4 Expected Future Use of the Site

The future use of the subject property, currently zoned Light Industrial is not likely to change for the foreseeable future.

7.5 Conceptual Site Model Summary

Potentially Exposed Population	Exposure Route, Medium and Exposure Point	Pathway Selected?	Potential Risk from This Pathway?	Reason for Selection or Exclusion
CURRENT AND FUTURE LAND USE: OCCUPATIONAL ; IMPACTED MEDIUM: SOIL				
Adults (Occupational)	Soil Ingestion, Dermal Contact or Inhalation from on-site soils above 3 feet (RBC _{ss})	Yes	Unknown	The pathway is complete; however, risks are not known as sufficient samples have not been collected within 3 feet of the surface.
Adults (Construction & Excavation Workers)	Soil Ingestion, Dermal Contact or Inhalation from on-site soils below 3 feet (RBC _{ss}).	Yes	No	The pathway is complete; however, detected concentrations are below the RBCs.
Adults (Occupational)	Volatilization to Outdoor Air (RBC _{so})	Yes	No	The pathway is complete; however, detected concentrations are below the RBCs.
Adults (Occupational)	Vapor Intrusion into Buildings (RBC _{si})	Yes	Yes	The pathway is complete and detected concentrations exceed the outdated RBCs. To determine actual risk, soil vapor samples will need to be collected.
Adults (Residential)	Soil Leaching to Groundwater (RBC _{sw})	No	No	The pathway is not complete since drinking water is supplied by the municipal system.
CURRENT AND FUTURE LAND USE: OCCUPATIONAL ; IMPACTED MEDIUM: GROUNDWATER				
Adults (Residential)	Ingestion & Inhalation from Tapwater (RBC _{tw})	No	No	The pathway is not complete since drinking water is supplied by the municipal system.
Adults (Residential)	Volatilization to Outdoor Air (RBC _{wo})	Yes	No	The pathway is complete; however, detected

Potentially Exposed Population	Exposure Route, Medium and Exposure Point	Pathway Selected?	Potential Risk from This Pathway?	Reason for Selection or Exclusion
				concentrations are below the RBCs.
Adults (Residential)	Vapor Intrusion into Buildings (RBC _{wi})	Yes	Yes	The pathway is complete and detected concentrations are above the RBCs.
Construction & Excavation Workers	Groundwater encountered during excavation activities, dermal contact (RBC _{we})	Yes	Yes	The pathway is complete and detected concentrations are above the RBCs for construction workers.

7.6 Ecological Receptors

Surface water or sediments were not encountered at the site. The nearest surface water is Johnson Creek, located approximately 220 feet from the Property. A Basic Site Information Checklist was completed and indicates that no ecological risk is anticipated (Appendix C).

8.0 FINDINGS, CONCLUSIONS, RISK EVALUATION AND RECOMMENDATIONS

Alpha has conducted a Phase II ESA Investigation at the Property located at 8975 SE 76th Drive, Portland, Oregon. The assessment was performed in accordance with the agreed-upon scope of services. The assessment followed the standard practice for conducting Environmental Site Assessments from the ASTM Standard E1903-19 and DEQ Site Assessment regulations. Based on the evaluation of the current findings of this assessment, the following findings, conclusions and recommendations have been developed.

8.1 Findings

Summary of Findings

- Soil samples from Boring B3@4' (131 ppm), B3@15' (191 ppm) and Boring B4@15' (23.7 ppm), confirm minor gasoline detections in the subsurface.
- The soil sample from Boring B3@15' had a detection of PCE of 73.9 ppm. This level is above the former occupational RBC for Vapor Intrusion into Buildings of 36 ppm.
- The groundwater samples from Boring B3 had a detection of gasoline of 28,200 ppb. This level is above the occupational RBC for Vapor Intrusion into Buildings of 520 ppb.
- Based on the DEQ updated RBCs for Vapor Intrusion from Groundwater, the detection concentrations of PCE and TCE exceeded the RBCs in all the borings.
- The groundwater samples from Boring B3 and B4 had detections of PCE of that exceeded the Construction Worker RBC for Groundwater in an Excavation. The groundwater samples from Boring B3 had detections of TCE of that exceeded the Construction Worker RBC for Groundwater in an Excavation. This pathway would only be complete if excavation was performed in this area.

8.2 Conclusions

Soil Sampling

- Gasoline concentrations detected in the borings did not exceed any applicable RBCs.
- PCE concentrations in Boring B3 are above the former occupational RBC for Vapor Intrusion into Buildings and are a potential concern. DEQs recent guidance indicates detections in soils are not accurate in predicting soil vapor risks.
- The area around Boring B3 appears to be a hot spot of contamination that should be fully delineated.

Groundwater Sampling

- Gasoline concentrations in Boring B3 are above the occupational RBC for Vapor Intrusion into Buildings and are a potential concern.
- PCE and TCE concentrations in Boring B3 are above the Direct Contact RBC for a Construction Worker and are a potential concern if excavation is performed in this area.
- Detected levels are significantly higher than the previous investigation by K&S Environmental.
- K&S Environmental suspected the source of the gasoline, PCE and TCE was from offsite sources. Alpha was not able to find a specific upgradient source and based on the current and previous testing, the source may have been located onsite. Upgradient samples (south/southeast) indicate lower concentrations than Boring B3 in the north portion of the site.

8.3 Risk Evaluation

Based on the findings and conclusions discussed above, environmental conditions were encountered at the Property that could pose an adverse risk to site occupants or future workers.

A Data gap is represented by sufficient soil samples not being collected in the upper three feet to determine if a potential ingestion, dermal contact and inhalation risk exist to site occupants or workers.

8.4 Recommendations

Alpha recommends the following for the Property.

- The vapor intrusion risk into buildings should be assessed by collecting sub-slab vapor samples beneath the onsite building floor slab.
- The vapor intrusion risk into offsite buildings should be assessed by collecting sub-slab vapor samples beneath the adjacent buildings to the north and northwest.
- The soil and groundwater impacts should be fully delineated (vertically and laterally) around the existing hot spot.
- Additional samples collected around the storage yard in areas not covered by K&S sampling.
- Collection of groundwater samples in the upgradient direction to determine if an offsite source may exist.
- Possible collection of offsite samples to determine the extent of the groundwater impacts toward Johnson Creek.

9.0 LIMITATIONS & USE RELIANCE

The investigation considered the past activities and operations conducted on the Property and adjacent properties to identify the potential for releases to have occurred or other reasons to conclude that there is a presence or likely presence of substances relevant to the objectives of the investigation. Alpha makes every attempt to fulfill the user's objectives which dictate the thresholds of concern or confidence desired in the conclusions to be derived from this assessment.

There is a possibility that, even with the proper application of these methodologies, there may exist at the Property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. The methodologies of this assessment are not intended to produce all inclusive or comprehensive results, but rather to provide the client and interested parties with an indication of subsurface environmental conditions in specifically targeted areas of the property at this time.

9.1 Limitations and Exceptions

In preparing the investigation sampling plans and reports, Alpha has relied upon certain information and representations contained in the historical documents provided to Alpha and the verbal statements of other consultants, field data (soil/groundwater) and additional information provided to Alpha. Therefore, this report is limited to the conclusions drawn based on information obtained and assumptions made during the review process and analytical results for this investigation.

Alpha relied upon the information and did not attempt to independently re-verify its accuracy or completeness, except as discussed. Potential inconsistencies or omissions of a nature that might call into question the validity of the information were not detected. To the extent that the conclusions in this report are based in whole or in part on such information, they are contingent on its validity. Alpha assumes no responsibility for any consequence arising from any information or condition that was concealed, withheld, misrepresented, or otherwise not fully disclosed or available to Alpha.

Within the limitations of the agreed-upon scope of services or the time and budgeting restraints imposed by the client, this investigation has been undertaken and performed in a professional manner, in accordance with generally accepted engineering practices, using the degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances. No representations or warranties are made concerning the nature or quality of the air, soil, water, building materials, or any other substance on the Property (including the potential for any substance to migrate into a structure), other than the immediate subject sampling areas as stated in this report. The investigation is a screening and is not intended to be a definitive investigation of existing or potential adverse environmental impacts; thus, it is possible that such an impact exists on the Property or adjacent properties, but was not identified during the investigation. The investigation is not intended to satisfy the level of inquiry that may be necessary to support remedial solutions for a site. Conclusions in this report represent professional judgments based upon the information evaluated during the course of the assessment, not scientific certainties.

9.2 Use Reliance

This report has been prepared for the express use of Chris Carlson, his representatives and Chase Bank. The client and/or Users of this report and its legal counsel may release all or parts of this report to third parties; however, in using this report, such third parties agree that they shall have no legal recourse against Alpha or its parent or subsidiaries, and shall indemnify and defend Alpha from and against all claims arising out of or in conjunction with such use or reliance. This report does not constitute legal advice. In addition, Alpha makes no determination or recommendations regarding the decision to purchase, sell, or provide financing for this Property.

10.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Alpha is providing the client with the results of our investigation for the Property located at 8975 SE 76th Drive, Portland, Oregon. Alpha completed the investigation of the Property in a professional manner according with generally accepted engineering practices, using the degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances.

The environmental consultants listed below exercised professional judgment based on knowledge of the manner in which releases commonly occur in connection with commercial or industrial activities and operations similar to those currently or historically conducted on or adjacent to the Property.

The consultants also possess applicable education, professional training, licensing and relevant experience to conduct the environmental investigation and other activities in accordance with the relevant standards and to develop opinions and conclusions regarding target analytes in the environmental media.

Alpha appreciates the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact our office at 503-292-5346.



Jim Cooper, R.G.
Senior Geologist



ALPHA ENVIRONMENTAL SERVICES, INC.



11.0 REFERENCES

American Society for Testing and Materials, *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, ASTM Designation: E 1903-19

K&S Environmental. Subsurface Investigation, 8975 SE 76th Drive, Portland, 97005. Dated February 28, 2020.

Silva Environmental Consulting & Assessments, Inc. Phase I Environmental Site Assessment, 8975 SE 76th Drive, Portland, 97005. Dated January 27, 2020.

State of Oregon Water Resources Department, Agency Resources, *Online Well Log Search and Groundwater Level Data*, accessed via website.

United States Geological Survey, *7.5 Minute Topographic Quadrangle of Gladstone, OR*, 1984.

Walker, 1991. *Geological Map of Oregon*, United States Geological Survey, Walker, G.W. and MacLeod, N.S., 1991.

12.0 ACRONYMS

ASTM	American Society for Testing and Materials
bsg	below surface grade
CSM	Conceptual Site Model
DEQ	Department of Environmental Quality (Oregon)
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
HCID	Hydrocarbon Identification
ND	Not Detected At or Above Laboratory Reporting Limits
PID	Photoionization Detector
PVC	Poly Vinyl Chloride
ppb	parts per billion
ppm	parts per million
RBCs	Risk-based Concentrations
RBDM	Risk-based Decision Making
RCRA	Resource Conservation & Recovery Act
RECs	Recognized Environmental Conditions
TPH	Total Petroleum Hydrocarbons
VOCs	Volatile Organic Compounds
WRD	Water Resources Department (Oregon)

FIGURES:

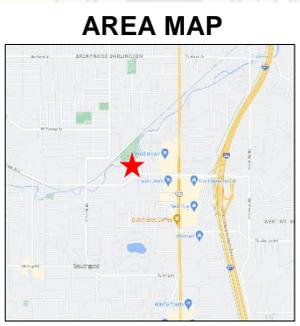
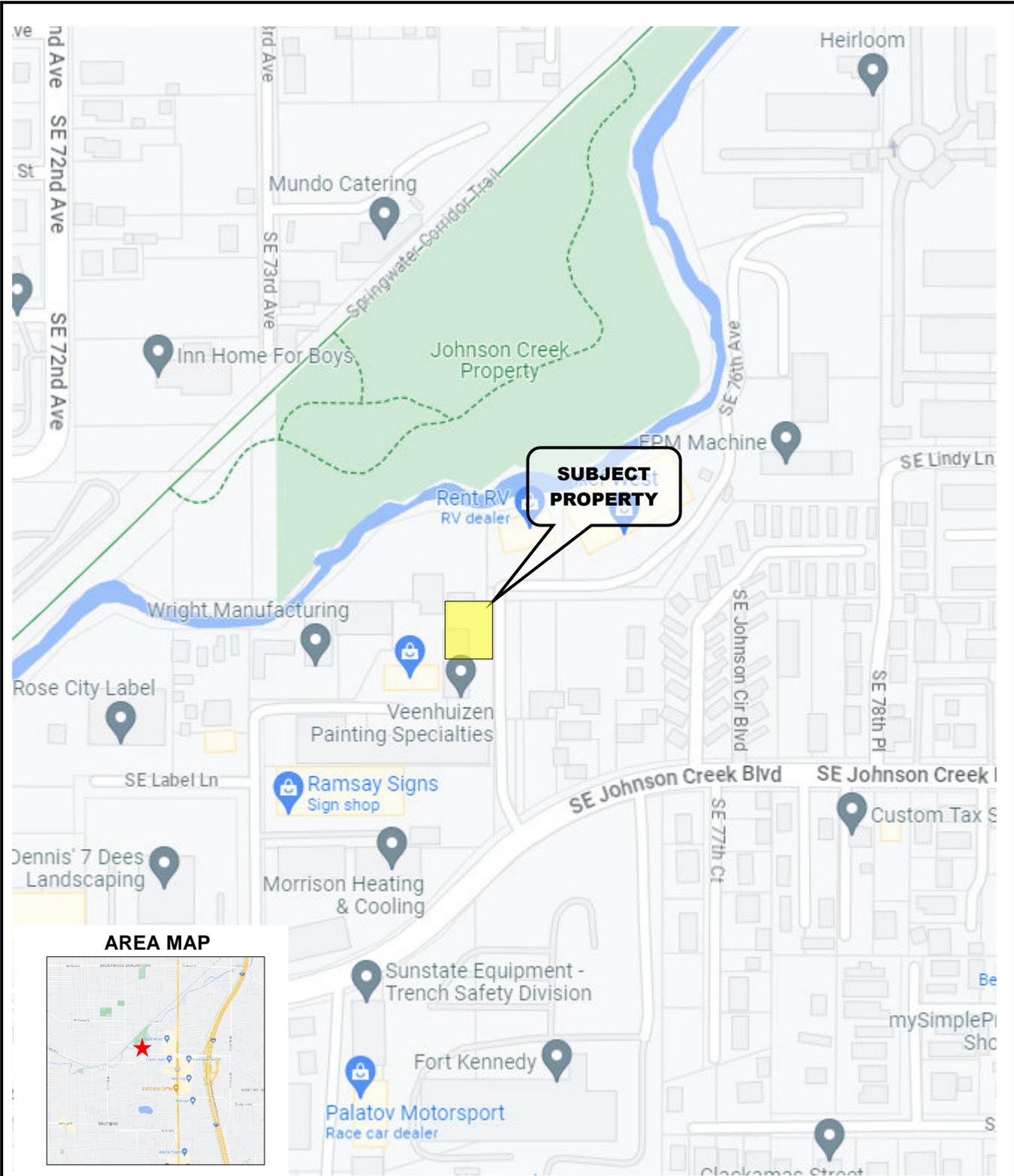
VICINITY MAP

TOPOGRAPHIC MAP

SITE OVERVIEW MAP

SITE SAMPLING MAP

GROUNDWATER CONCENTRATION COMPARISON MAP



SOURCE: Google Maps

DRAWING NOT TO SCALE



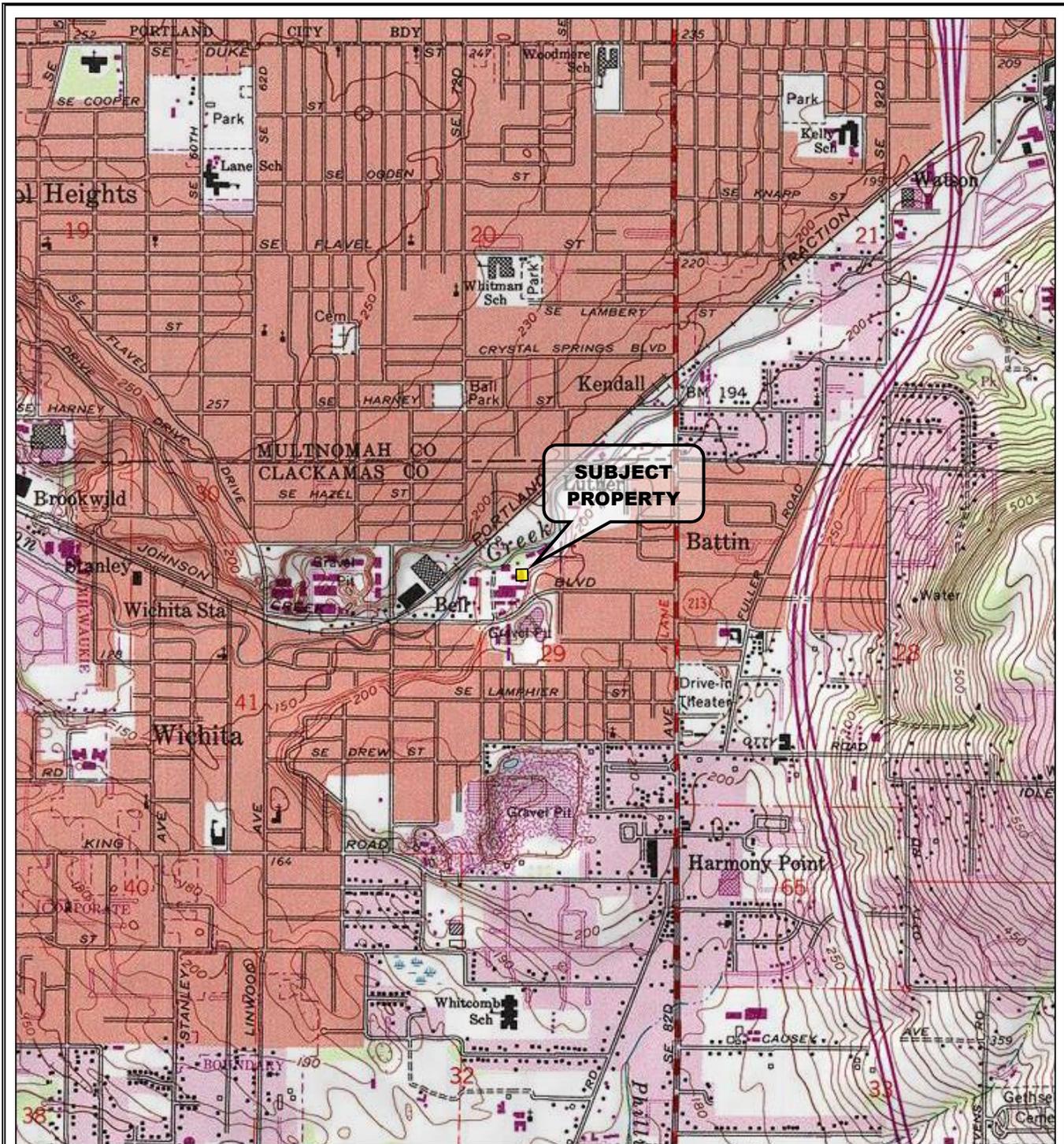
11080 SW ALLEN BLVD, STE 100
 BEAVERTON, OREGON 97005
 (503) 292-5346

FIGURE 1: SITE VICINITY MAP

8975 SE 76th DRIVE
 PORTLAND, OREGON 97206

PROJECT NO: 23-53253





TN MN
15 1/2°

0 5 1 MILE
0 1000 FEET 0 500 1000 METERS

Printed from TOPO! ©2000 National Geographic Holdings (www.topo.com)

SOURCE: USGS 7.5 Minute Topographic Map – Gladstone, OR Quadrangle, 1984



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BEAVERTON, OREGON 97005
(503) 292-5346

FIGURE 2: TOPOGRAPHIC MAP

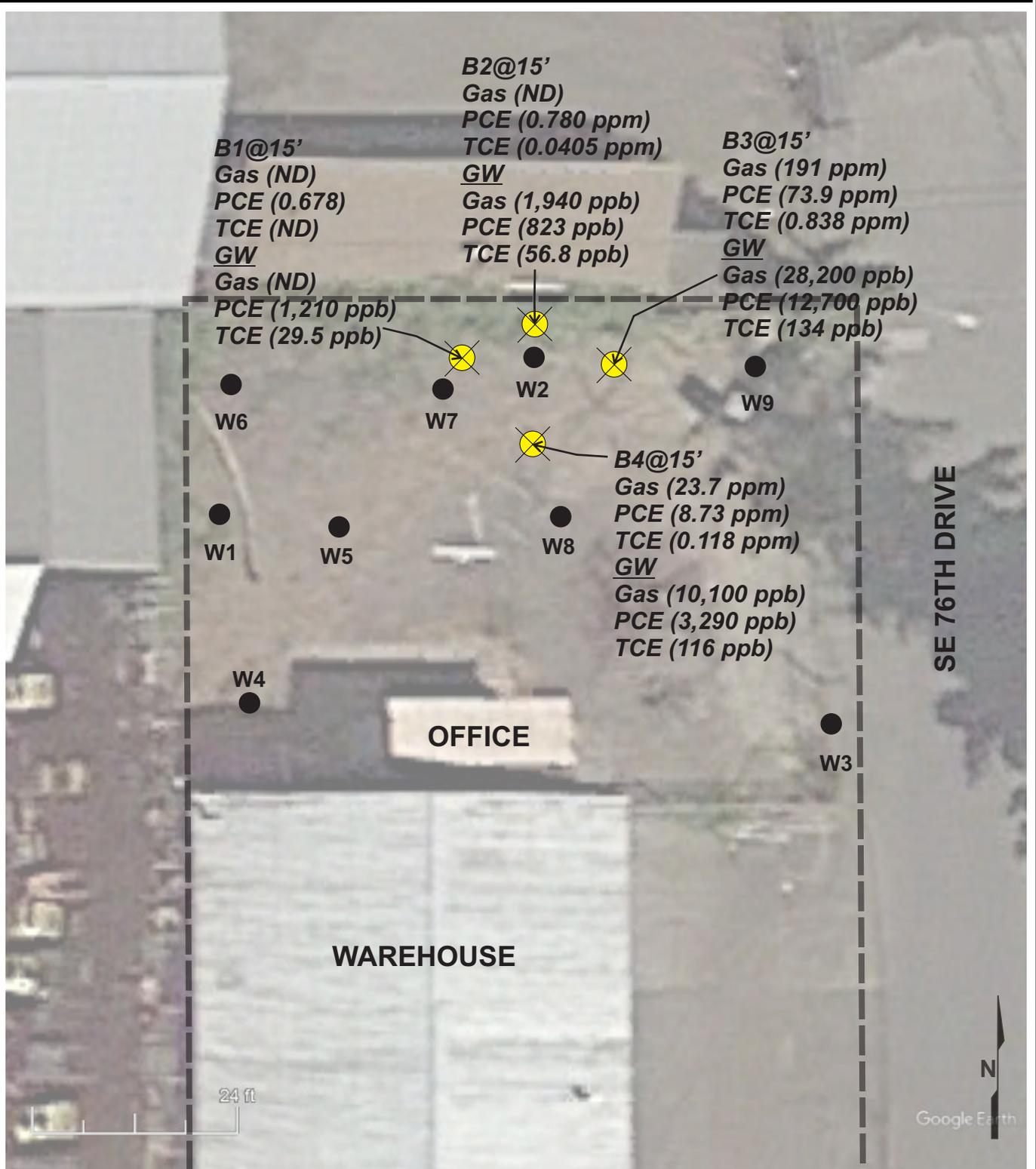
8975 SE 76TH DRIVE
PORTLAND, OREGON 97206

PROJECT NO: 23-53253





<p>LEGEND</p> <p>----- PROPERTY BOUNDARY</p>	<p align="center">FIGURE 3: SITE OVERVIEW MAP</p>	
	<p align="center">8975 SE 76TH AVENUE PORTLAND, OREGON 97206</p>	
	<p>NOTES</p> <p>MAP SYMBOLS DENOTE LOCATIONS AND MAY NOT BE TO SCALE</p> <p>GOOGLE MAPS BASE IMAGE MAY BE SKEWED BY SATELLITE POSITION</p>	<p align="center">  11080 SW ALLEN BVLD, STE 100 BEAVERTON, OREGON 97005 (503) 292-5346 </p>
	<p align="center">PROJECT NO: 23-53253</p>	



LEGEND

- ⊗ SOIL AND GROUNDWATER SAMPLE LOCATIONS
- PREVIOUS SAMPLE LOCATIONS (K&S 2020)

FIGURE 4: SITE SAMPLING MAP

8975 SE 76TH DRIVE
 PORTLAND, OREGON 97206

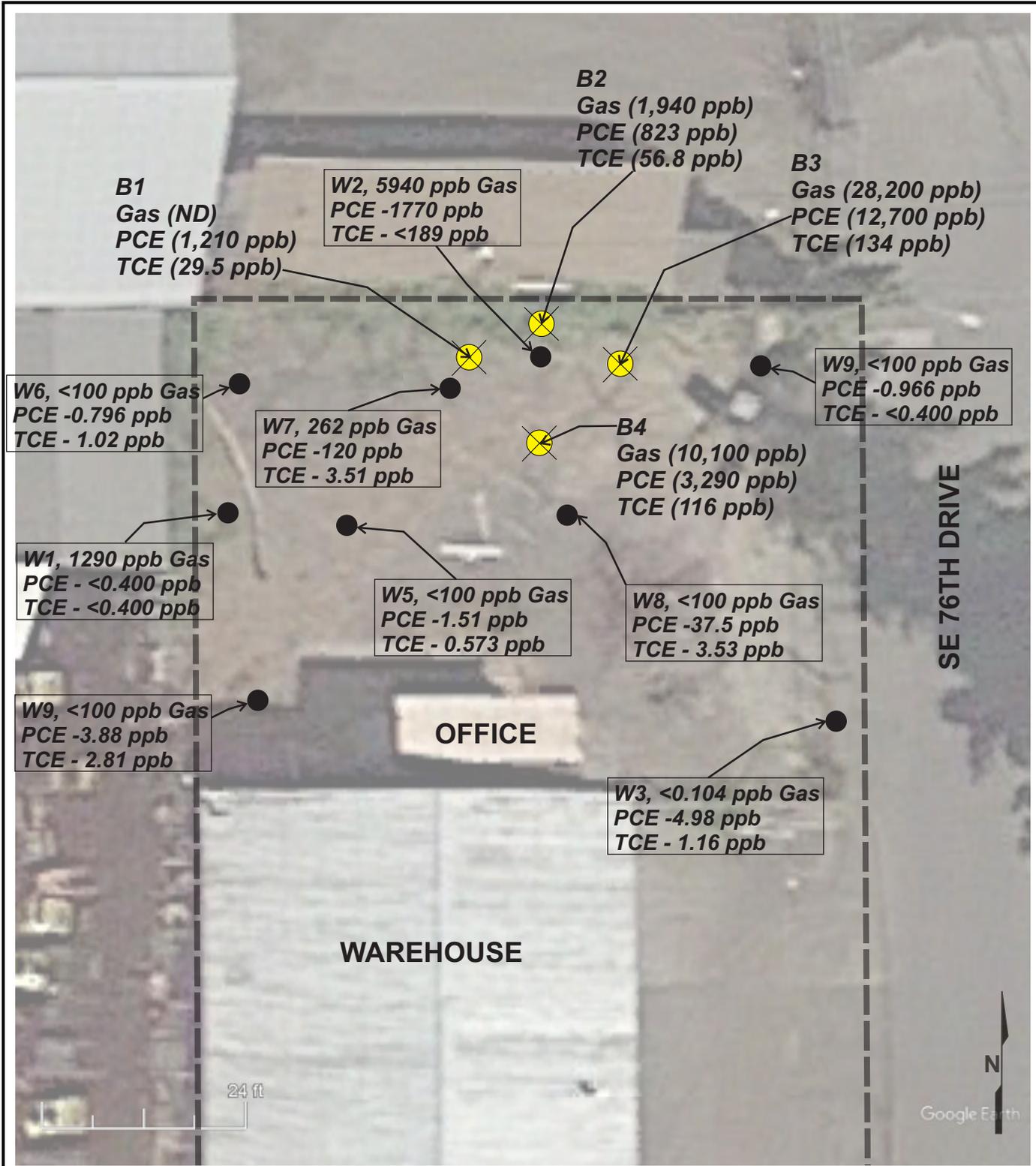
NOTES

MAP SYMBOLS DENOTE LOCATIONS AND MAY NOT BE TO SCALE
 GOOGLE MAPS BASE IMAGE MAY BE SKEWED BY SATELLITE POSITION



11080 SW ALLEN BVLD, STE 100
 BEAVERTON, OREGON 97005
 (503) 292-5346

PROJECT NO: 23-53253



LEGEND  SOIL AND GROUNDWATER SAMPLE LOCATIONS  PREVIOUS SAMPLE LOCATIONS (K&S 2020)	FIGURE 5: GROUNDWATER COMPARISON MAP 8975 SE 76TH DRIVE PORTLAND, OREGON 97206	
	NOTES MAP SYMBOLS DENOTE LOCATIONS AND MAY NOT BE TO SCALE GOOGLE MAPS BASE IMAGE MAY BE SKEWED BY SATELLITE POSITION	 11080 SW ALLEN BVLD, STE 100 BEAVERTON, OREGON 97005 (503) 292-5346
PROJECT NO: 23-53253		



APPENDIX A:
ANALYTICAL LABORATORY REPORTS



ANALYTICAL REPORT

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

Tuesday, April 25, 2023
Jim Cooper
Alpha Environmental
11080 SW Allen Blvd, Suite 100
Beaverton, OR 97005

RE: A3D1238 - Default- Env Dept. - 8975 SE 76th. Dr 23-53253

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

Enclosed are the results of analyses for work order A3D1238, which was received by the laboratory on 4/14/2023 at 4:30:00PM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 1.8 degC

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

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



Apex Laboratories

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

Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

<u>Alpha Environmental</u> 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: <u>Default- Env Dept.</u> Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
23-53253 B1@15'	A3D1238-01	Soil	04/14/23 09:45	04/14/23 16:30
23-53253 B2@15'	A3D1238-02	Soil	04/14/23 10:15	04/14/23 16:30
23-53253 B3@15'	A3D1238-03	Soil	04/14/23 10:35	04/14/23 16:30
23-53253 B4@15'	A3D1238-04	Soil	04/14/23 11:00	04/14/23 16:30
23-53253 B3@4'	A3D1238-05	Soil	04/14/23 10:25	04/14/23 16:30
23-53253 B1	A3D1238-06	Water	04/14/23 10:15	04/14/23 16:30
23-53253 B2	A3D1238-07	Water	04/14/23 10:50	04/14/23 16:30
23-53253 B3	A3D1238-08	Water	04/14/23 11:05	04/14/23 16:30
23-53253 B4	A3D1238-09	Water	04/14/23 11:20	04/14/23 16:30

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B1@15' (A3D1238-01)				Matrix: Soil		Batch: 23D0651		
Gasoline Range Organics	ND	---	4.93	mg/kg dry	50	04/17/23 15:49	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 103 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>04/17/23 15:49</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>	<i>1</i>	<i>04/17/23 15:49</i>	<i>NWTPH-Gx (MS)</i>	
23-53253 B2@15' (A3D1238-02)				Matrix: Soil		Batch: 23D0651		
Gasoline Range Organics	ND	---	5.40	mg/kg dry	50	04/17/23 18:22	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 107 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>04/17/23 18:22</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>	<i>1</i>	<i>04/17/23 18:22</i>	<i>NWTPH-Gx (MS)</i>	
23-53253 B3@15' (A3D1238-03)				Matrix: Soil		Batch: 23D0651		
Gasoline Range Organics	191	---	29.8	mg/kg dry	50	04/17/23 16:40	NWTPH-Gx (MS)	F-12
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 106 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>04/17/23 16:40</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>102 %</i>	<i>50-150 %</i>	<i>1</i>	<i>04/17/23 16:40</i>	<i>NWTPH-Gx (MS)</i>	
23-53253 B4@15' (A3D1238-04RE1)				Matrix: Soil		Batch: 23D0701		
Gasoline Range Organics	23.7	---	8.58	mg/kg dry	50	04/18/23 21:01	NWTPH-Gx (MS)	F-12
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 100 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>04/18/23 21:01</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>102 %</i>	<i>50-150 %</i>	<i>1</i>	<i>04/18/23 21:01</i>	<i>NWTPH-Gx (MS)</i>	
23-53253 B3@4' (A3D1238-05)				Matrix: Soil		Batch: 23D0651		
Gasoline Range Organics	131	---	6.59	mg/kg dry	50	04/17/23 17:31	NWTPH-Gx (MS)	F-09
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 105 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>04/17/23 17:31</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>102 %</i>	<i>50-150 %</i>	<i>1</i>	<i>04/17/23 17:31</i>	<i>NWTPH-Gx (MS)</i>	
23-53253 B1 (A3D1238-06)				Matrix: Water		Batch: 23D0628		
Gasoline Range Organics	ND	---	5000	ug/L	50	04/17/23 14:53	NWTPH-Gx (MS)	R-04
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 94 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>04/17/23 14:53</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>108 %</i>	<i>50-150 %</i>	<i>1</i>	<i>04/17/23 14:53</i>	<i>NWTPH-Gx (MS)</i>	
23-53253 B2 (A3D1238-07)				Matrix: Water		Batch: 23D0628		
Gasoline Range Organics	1940	---	1000	ug/L	10	04/17/23 15:15	NWTPH-Gx (MS)	F-12
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 93 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>04/17/23 15:15</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>107 %</i>	<i>50-150 %</i>	<i>1</i>	<i>04/17/23 15:15</i>	<i>NWTPH-Gx (MS)</i>	
23-53253 B3 (A3D1238-08RE3)				Matrix: Water		Batch: 23D0859		
Gasoline Range Organics	28200	---	10000	ug/L	100	04/21/23 15:35	NWTPH-Gx (MS)	F-12

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B3 (A3D1238-08RE3)				Matrix: Water		Batch: 23D0859		
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 92 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>04/21/23 15:35</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>109 %</i>		<i>50-150 %</i>		<i>1</i>	<i>04/21/23 15:35</i>	<i>NWTPH-Gx (MS)</i>
23-53253 B4 (A3D1238-09RE1)				Matrix: Water		Batch: 23D0695		
Gasoline Range Organics	10100	---	2000	ug/L	20	04/18/23 20:56	NWTPH-Gx (MS)	F-12
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 107 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>04/18/23 20:56</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>105 %</i>		<i>50-150 %</i>		<i>1</i>	<i>04/18/23 20:56</i>	<i>NWTPH-Gx (MS)</i>

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B1@15' (A3D1238-01)				Matrix: Soil		Batch: 23D0651		
Acetone	ND	---	0.986	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Acrylonitrile	ND	---	0.0986	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Benzene	ND	---	0.00986	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Bromobenzene	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Bromochloromethane	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Bromodichloromethane	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Bromoform	ND	---	0.0986	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Bromomethane	ND	---	0.493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
2-Butanone (MEK)	ND	---	0.493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
n-Butylbenzene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
sec-Butylbenzene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
tert-Butylbenzene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Carbon disulfide	ND	---	0.493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Carbon tetrachloride	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Chlorobenzene	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Chloroethane	ND	---	0.493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Chloroform	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Chloromethane	ND	---	0.247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
2-Chlorotoluene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
4-Chlorotoluene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Dibromochloromethane	ND	---	0.0986	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Dibromomethane	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.0986	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B1@15' (A3D1238-01)				Matrix: Soil		Batch: 23D0651		
Ethylbenzene	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Hexachlorobutadiene	ND	---	0.0986	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
2-Hexanone	ND	---	0.493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Isopropylbenzene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Methylene chloride	ND	---	0.493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Naphthalene	ND	---	0.0986	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
n-Propylbenzene	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Styrene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Tetrachloroethene (PCE)	0.678	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Toluene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Trichlorofluoromethane	ND	---	0.0986	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
Vinyl chloride	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
m,p-Xylene	ND	---	0.0493	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
o-Xylene	ND	---	0.0247	mg/kg dry	50	04/17/23 15:49	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>101 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>04/17/23 15:49</i>	<i>5035A/8260D</i>
<i>Toluene-d8 (Surr)</i>			<i>96 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/17/23 15:49</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>		<i>79-120 %</i>	<i>1</i>	<i>04/17/23 15:49</i>	<i>5035A/8260D</i>

23-53253 B2@15' (A3D1238-02)				Matrix: Soil		Batch: 23D0651		
Acetone	ND	---	1.08	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Acrylonitrile	ND	---	0.108	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Benzene	ND	---	0.0108	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Bromobenzene	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Bromochloromethane	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Bromodichloromethane	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B2@15' (A3D1238-02)				Matrix: Soil		Batch: 23D0651		
Bromoform	ND	---	0.108	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Bromomethane	ND	---	0.540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
2-Butanone (MEK)	ND	---	0.540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
n-Butylbenzene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
sec-Butylbenzene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
tert-Butylbenzene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Carbon disulfide	ND	---	0.540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Carbon tetrachloride	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Chlorobenzene	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Chloroethane	ND	---	0.540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Chloroform	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Chloromethane	ND	---	0.270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
2-Chlorotoluene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
4-Chlorotoluene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Dibromochloromethane	ND	---	0.108	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Dibromomethane	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.108	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
cis-1,2-Dichloroethene	0.0470	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Ethylbenzene	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Hexachlorobutadiene	ND	---	0.108	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
2-Hexanone	ND	---	0.540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Isopropylbenzene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Methylene chloride	ND	---	0.540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B2@15' (A3D1238-02)				Matrix: Soil		Batch: 23D0651		
4-Methyl-2-pentanone (MiBK)	ND	---	0.540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Naphthalene	ND	---	0.108	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
n-Propylbenzene	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Styrene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Tetrachloroethene (PCE)	0.780	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Toluene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Trichloroethene (TCE)	0.0405	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	Q-42
Trichlorofluoromethane	ND	---	0.108	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
Vinyl chloride	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
m,p-Xylene	ND	---	0.0540	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
o-Xylene	ND	---	0.0270	mg/kg dry	50	04/17/23 18:22	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/17/23 18:22</i>	<i>5035A/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/17/23 18:22</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>79-120 %</i>		<i>1</i>	<i>04/17/23 18:22</i>	<i>5035A/8260D</i>

23-53253 B3@15' (A3D1238-03)				Matrix: Soil		Batch: 23D0651		
Acetone	ND	---	5.96	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Acrylonitrile	ND	---	0.596	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Benzene	ND	---	0.0596	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Bromobenzene	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Bromochloromethane	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Bromodichloromethane	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Bromoform	ND	---	0.596	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Bromomethane	ND	---	2.98	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
2-Butanone (MEK)	ND	---	2.98	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
n-Butylbenzene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
sec-Butylbenzene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
tert-Butylbenzene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B3@15' (A3D1238-03)				Matrix: Soil		Batch: 23D0651		
Carbon disulfide	ND	---	2.98	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Carbon tetrachloride	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Chlorobenzene	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Chloroethane	ND	---	2.98	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Chloroform	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Chloromethane	ND	---	1.49	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
2-Chlorotoluene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
4-Chlorotoluene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Dibromochloromethane	ND	---	0.596	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	1.49	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Dibromomethane	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.596	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,1-Dichloroethane	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,1-Dichloroethene	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
cis-1,2-Dichloroethene	0.540	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,2-Dichloropropane	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,3-Dichloropropane	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
2,2-Dichloropropane	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,1-Dichloropropene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Ethylbenzene	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Hexachlorobutadiene	ND	---	0.596	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
2-Hexanone	ND	---	2.98	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Isopropylbenzene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
4-Isopropyltoluene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Methylene chloride	ND	---	2.98	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	2.98	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Naphthalene	ND	---	0.596	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
n-Propylbenzene	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Styrene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B3@15' (A3D1238-03)				Matrix: Soil		Batch: 23D0651		
1,1,2,2-Tetrachloroethane	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Toluene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	1.49	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	1.49	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Trichloroethene (TCE)	0.838	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Trichlorofluoromethane	ND	---	0.596	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
Vinyl chloride	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
m,p-Xylene	ND	---	0.298	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
o-Xylene	ND	---	0.149	mg/kg dry	50	04/17/23 16:40	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/17/23 16:40</i>	<i>5035A/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/17/23 16:40</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>1</i>	<i>04/17/23 16:40</i>	<i>5035A/8260D</i>
23-53253 B3@15' (A3D1238-03RE1)				Matrix: Soil		Batch: 23D0701		
Tetrachloroethene (PCE)	73.9	---	2.98	mg/kg dry	1000	04/18/23 23:08	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/18/23 23:08</i>	<i>5035A/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/18/23 23:08</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>1</i>	<i>04/18/23 23:08</i>	<i>5035A/8260D</i>
23-53253 B4@15' (A3D1238-04)				Matrix: Soil		Batch: 23D0651		
Acetone	ND	---	1.72	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Acrylonitrile	ND	---	0.172	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Benzene	ND	---	0.0172	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Bromobenzene	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Bromochloromethane	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Bromodichloromethane	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Bromoform	ND	---	0.172	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Bromomethane	ND	---	0.858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
2-Butanone (MEK)	ND	---	0.858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
n-Butylbenzene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
sec-Butylbenzene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
tert-Butylbenzene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Carbon disulfide	ND	---	0.858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B4@15' (A3D1238-04)				Matrix: Soil		Batch: 23D0651		
Carbon tetrachloride	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Chlorobenzene	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Chloroethane	ND	---	0.858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Chloroform	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Chloromethane	ND	---	0.429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
2-Chlorotoluene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
4-Chlorotoluene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Dibromochloromethane	ND	---	0.172	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Dibromomethane	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.172	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
cis-1,2-Dichloroethene	0.0497	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Ethylbenzene	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Hexachlorobutadiene	ND	---	0.172	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
2-Hexanone	ND	---	0.858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Isopropylbenzene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Methylene chloride	ND	---	0.858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Naphthalene	ND	---	0.172	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
n-Propylbenzene	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Styrene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B4@15' (A3D1238-04)				Matrix: Soil		Batch: 23D0651		
Toluene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Trichloroethene (TCE)	0.118	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Trichlorofluoromethane	ND	---	0.172	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
Vinyl chloride	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
m,p-Xylene	ND	---	0.0858	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
o-Xylene	ND	---	0.0429	mg/kg dry	50	04/17/23 17:06	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/17/23 17:06</i>	<i>5035A/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/17/23 17:06</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>1</i>	<i>04/17/23 17:06</i>	<i>5035A/8260D</i>
23-53253 B4@15' (A3D1238-04RE1)				Matrix: Soil		Batch: 23D0701		
Tetrachloroethene (PCE)	8.73	---	0.0429	mg/kg dry	50	04/18/23 21:01	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/18/23 21:01</i>	<i>5035A/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/18/23 21:01</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>1</i>	<i>04/18/23 21:01</i>	<i>5035A/8260D</i>
23-53253 B3@4' (A3D1238-05)				Matrix: Soil		Batch: 23D0651		
Acetone	ND	---	1.32	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Acrylonitrile	ND	---	0.132	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Benzene	ND	---	0.0132	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Bromobenzene	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Bromochloromethane	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Bromodichloromethane	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Bromoform	ND	---	0.132	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Bromomethane	ND	---	0.659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
2-Butanone (MEK)	ND	---	0.659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
n-Butylbenzene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
sec-Butylbenzene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
tert-Butylbenzene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Carbon disulfide	ND	---	0.659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Carbon tetrachloride	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B3@4' (A3D1238-05)				Matrix: Soil		Batch: 23D0651		
Chlorobenzene	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Chloroethane	ND	---	0.659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Chloroform	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Chloromethane	ND	---	0.329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
2-Chlorotoluene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
4-Chlorotoluene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Dibromochloromethane	ND	---	0.132	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Dibromomethane	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.132	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Ethylbenzene	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Hexachlorobutadiene	ND	---	0.132	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
2-Hexanone	ND	---	0.659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Isopropylbenzene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Methylene chloride	ND	---	0.659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Naphthalene	ND	---	0.132	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
n-Propylbenzene	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Styrene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.856	mg/kg dry	50	04/17/23 17:31	5035A/8260D	R-02
Toluene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B3@4' (A3D1238-05)			Matrix: Soil		Batch: 23D0651			
1,2,3-Trichlorobenzene	ND	---	0.329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Trichlorofluoromethane	ND	---	0.132	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.132	mg/kg dry	50	04/17/23 17:31	5035A/8260D	R-02
1,2,4-Trimethylbenzene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
Vinyl chloride	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
m,p-Xylene	ND	---	0.0659	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
o-Xylene	ND	---	0.0329	mg/kg dry	50	04/17/23 17:31	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>04/17/23 17:31</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/17/23 17:31</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>	<i>1</i>	<i>04/17/23 17:31</i>	<i>5035A/8260D</i>	
23-53253 B3@4' (A3D1238-05RE1)			Matrix: Soil		Batch: 23D0701			
Tetrachloroethene (PCE)	ND	---	0.0329	mg/kg dry	50	04/18/23 19:44	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>04/18/23 19:44</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/18/23 19:44</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>79-120 %</i>	<i>1</i>	<i>04/18/23 19:44</i>	<i>5035A/8260D</i>	
23-53253 B1 (A3D1238-06)			Matrix: Water		Batch: 23D0628			R-04
Acetone	ND	---	1000	ug/L	50	04/17/23 14:53	EPA 8260D	
Acrylonitrile	ND	---	100	ug/L	50	04/17/23 14:53	EPA 8260D	
Benzene	ND	---	10.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Bromobenzene	ND	---	25.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Bromochloromethane	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Bromodichloromethane	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Bromoform	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Bromomethane	ND	---	250	ug/L	50	04/17/23 14:53	EPA 8260D	
2-Butanone (MEK)	ND	---	500	ug/L	50	04/17/23 14:53	EPA 8260D	
n-Butylbenzene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
sec-Butylbenzene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
tert-Butylbenzene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Carbon disulfide	ND	---	500	ug/L	50	04/17/23 14:53	EPA 8260D	
Carbon tetrachloride	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Chlorobenzene	ND	---	25.0	ug/L	50	04/17/23 14:53	EPA 8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B1 (A3D1238-06)				Matrix: Water		Batch: 23D0628		R-04
Chloroethane	ND	---	250	ug/L	50	04/17/23 14:53	EPA 8260D	
Chloroform	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Chloromethane	ND	---	250	ug/L	50	04/17/23 14:53	EPA 8260D	
2-Chlorotoluene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
4-Chlorotoluene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Dibromochloromethane	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	250	ug/L	50	04/17/23 14:53	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	25.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Dibromomethane	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,2-Dichlorobenzene	ND	---	25.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,3-Dichlorobenzene	ND	---	25.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,4-Dichlorobenzene	ND	---	25.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Dichlorodifluoromethane	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,1-Dichloroethane	ND	---	20.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	20.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,1-Dichloroethene	ND	---	20.0	ug/L	50	04/17/23 14:53	EPA 8260D	
cis-1,2-Dichloroethene	53.0	---	20.0	ug/L	50	04/17/23 14:53	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	20.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,2-Dichloropropane	ND	---	25.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,3-Dichloropropane	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
2,2-Dichloropropane	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,1-Dichloropropene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Ethylbenzene	ND	---	25.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Hexachlorobutadiene	ND	---	250	ug/L	50	04/17/23 14:53	EPA 8260D	
2-Hexanone	ND	---	500	ug/L	50	04/17/23 14:53	EPA 8260D	
Isopropylbenzene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
4-Isopropyltoluene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Methylene chloride	ND	---	500	ug/L	50	04/17/23 14:53	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	500	ug/L	50	04/17/23 14:53	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Naphthalene	ND	---	100	ug/L	50	04/17/23 14:53	EPA 8260D	
n-Propylbenzene	ND	---	25.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Styrene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	20.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	25.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Tetrachloroethene (PCE)	1210	---	20.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Toluene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B1 (A3D1238-06)				Matrix: Water		Batch: 23D0628		R-04
1,2,3-Trichlorobenzene	ND	---	100	ug/L	50	04/17/23 14:53	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	100	ug/L	50	04/17/23 14:53	EPA 8260D	
1,1,1-Trichloroethane	ND	---	20.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,1,2-Trichloroethane	ND	---	25.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Trichloroethene (TCE)	29.5	---	20.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Trichlorofluoromethane	ND	---	100	ug/L	50	04/17/23 14:53	EPA 8260D	
1,2,3-Trichloropropane	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
Vinyl chloride	ND	---	20.0	ug/L	50	04/17/23 14:53	EPA 8260D	
m,p-Xylene	ND	---	50.0	ug/L	50	04/17/23 14:53	EPA 8260D	
o-Xylene	ND	---	25.0	ug/L	50	04/17/23 14:53	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/17/23 14:53</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/17/23 14:53</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/17/23 14:53</i>	<i>EPA 8260D</i>

23-53253 B2 (A3D1238-07)				Matrix: Water		Batch: 23D0628		
Acetone	ND	---	200	ug/L	10	04/17/23 15:15	EPA 8260D	
Acrylonitrile	ND	---	20.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Benzene	ND	---	2.00	ug/L	10	04/17/23 15:15	EPA 8260D	
Bromobenzene	ND	---	5.00	ug/L	10	04/17/23 15:15	EPA 8260D	
Bromochloromethane	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Bromodichloromethane	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Bromoform	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Bromomethane	ND	---	50.0	ug/L	10	04/17/23 15:15	EPA 8260D	
2-Butanone (MEK)	ND	---	100	ug/L	10	04/17/23 15:15	EPA 8260D	
n-Butylbenzene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
sec-Butylbenzene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
tert-Butylbenzene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Carbon disulfide	ND	---	100	ug/L	10	04/17/23 15:15	EPA 8260D	
Carbon tetrachloride	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Chlorobenzene	ND	---	5.00	ug/L	10	04/17/23 15:15	EPA 8260D	
Chloroethane	ND	---	50.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Chloroform	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Chloromethane	ND	---	50.0	ug/L	10	04/17/23 15:15	EPA 8260D	
2-Chlorotoluene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
4-Chlorotoluene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Dibromochloromethane	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B2 (A3D1238-07)			Matrix: Water		Batch: 23D0628			
1,2-Dibromo-3-chloropropane	ND	---	50.0	ug/L	10	04/17/23 15:15	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	5.00	ug/L	10	04/17/23 15:15	EPA 8260D	
Dibromomethane	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
1,2-Dichlorobenzene	ND	---	5.00	ug/L	10	04/17/23 15:15	EPA 8260D	
1,3-Dichlorobenzene	ND	---	5.00	ug/L	10	04/17/23 15:15	EPA 8260D	
1,4-Dichlorobenzene	ND	---	5.00	ug/L	10	04/17/23 15:15	EPA 8260D	
Dichlorodifluoromethane	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
1,1-Dichloroethane	ND	---	4.00	ug/L	10	04/17/23 15:15	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	4.00	ug/L	10	04/17/23 15:15	EPA 8260D	
1,1-Dichloroethene	ND	---	4.00	ug/L	10	04/17/23 15:15	EPA 8260D	
cis-1,2-Dichloroethene	86.6	---	4.00	ug/L	10	04/17/23 15:15	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	4.00	ug/L	10	04/17/23 15:15	EPA 8260D	
1,2-Dichloropropane	ND	---	5.00	ug/L	10	04/17/23 15:15	EPA 8260D	
1,3-Dichloropropane	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
2,2-Dichloropropane	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
1,1-Dichloropropene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Ethylbenzene	ND	---	5.00	ug/L	10	04/17/23 15:15	EPA 8260D	
Hexachlorobutadiene	ND	---	50.0	ug/L	10	04/17/23 15:15	EPA 8260D	
2-Hexanone	ND	---	100	ug/L	10	04/17/23 15:15	EPA 8260D	
Isopropylbenzene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
4-Isopropyltoluene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Methylene chloride	ND	---	100	ug/L	10	04/17/23 15:15	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	100	ug/L	10	04/17/23 15:15	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Naphthalene	ND	---	20.0	ug/L	10	04/17/23 15:15	EPA 8260D	
n-Propylbenzene	ND	---	5.00	ug/L	10	04/17/23 15:15	EPA 8260D	
Styrene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	4.00	ug/L	10	04/17/23 15:15	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	5.00	ug/L	10	04/17/23 15:15	EPA 8260D	
Tetrachloroethene (PCE)	823	---	4.00	ug/L	10	04/17/23 15:15	EPA 8260D	
Toluene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	20.0	ug/L	10	04/17/23 15:15	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	20.0	ug/L	10	04/17/23 15:15	EPA 8260D	
1,1,1-Trichloroethane	ND	---	4.00	ug/L	10	04/17/23 15:15	EPA 8260D	
1,1,2-Trichloroethane	ND	---	5.00	ug/L	10	04/17/23 15:15	EPA 8260D	
Trichloroethene (TCE)	56.8	---	4.00	ug/L	10	04/17/23 15:15	EPA 8260D	
Trichlorofluoromethane	ND	---	20.0	ug/L	10	04/17/23 15:15	EPA 8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B2 (A3D1238-07)			Matrix: Water		Batch: 23D0628			
1,2,3-Trichloropropane	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
Vinyl chloride	ND	---	4.00	ug/L	10	04/17/23 15:15	EPA 8260D	
m,p-Xylene	ND	---	10.0	ug/L	10	04/17/23 15:15	EPA 8260D	
o-Xylene	ND	---	5.00	ug/L	10	04/17/23 15:15	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/17/23 15:15</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/17/23 15:15</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/17/23 15:15</i>	<i>EPA 8260D</i>

23-53253 B3 (A3D1238-08)			Matrix: Water		Batch: 23D0628			V-01
Acetone	ND	---	200	ug/L	10	04/17/23 15:38	EPA 8260D	
Acrylonitrile	ND	---	20.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Benzene	ND	---	2.00	ug/L	10	04/17/23 15:38	EPA 8260D	
Bromobenzene	ND	---	5.00	ug/L	10	04/17/23 15:38	EPA 8260D	
Bromochloromethane	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Bromodichloromethane	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Bromoform	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Bromomethane	ND	---	50.0	ug/L	10	04/17/23 15:38	EPA 8260D	
2-Butanone (MEK)	ND	---	100	ug/L	10	04/17/23 15:38	EPA 8260D	
n-Butylbenzene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
sec-Butylbenzene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
tert-Butylbenzene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Carbon disulfide	ND	---	100	ug/L	10	04/17/23 15:38	EPA 8260D	
Carbon tetrachloride	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Chlorobenzene	ND	---	5.00	ug/L	10	04/17/23 15:38	EPA 8260D	
Chloroethane	ND	---	50.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Chloroform	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Chloromethane	ND	---	50.0	ug/L	10	04/17/23 15:38	EPA 8260D	
2-Chlorotoluene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
4-Chlorotoluene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Dibromochloromethane	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	50.0	ug/L	10	04/17/23 15:38	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	5.00	ug/L	10	04/17/23 15:38	EPA 8260D	
Dibromomethane	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
1,2-Dichlorobenzene	ND	---	5.00	ug/L	10	04/17/23 15:38	EPA 8260D	
1,3-Dichlorobenzene	ND	---	5.00	ug/L	10	04/17/23 15:38	EPA 8260D	
1,4-Dichlorobenzene	ND	---	5.00	ug/L	10	04/17/23 15:38	EPA 8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B3 (A3D1238-08)				Matrix: Water		Batch: 23D0628		V-01
Dichlorodifluoromethane	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
1,1-Dichloroethane	ND	---	4.00	ug/L	10	04/17/23 15:38	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	4.00	ug/L	10	04/17/23 15:38	EPA 8260D	
1,1-Dichloroethene	ND	---	4.00	ug/L	10	04/17/23 15:38	EPA 8260D	
cis-1,2-Dichloroethene	188	---	4.00	ug/L	10	04/17/23 15:38	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	4.00	ug/L	10	04/17/23 15:38	EPA 8260D	
1,2-Dichloropropane	ND	---	5.00	ug/L	10	04/17/23 15:38	EPA 8260D	
1,3-Dichloropropane	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
2,2-Dichloropropane	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
1,1-Dichloropropene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Ethylbenzene	ND	---	5.00	ug/L	10	04/17/23 15:38	EPA 8260D	
Hexachlorobutadiene	ND	---	50.0	ug/L	10	04/17/23 15:38	EPA 8260D	
2-Hexanone	ND	---	100	ug/L	10	04/17/23 15:38	EPA 8260D	
Isopropylbenzene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
4-Isopropyltoluene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Methylene chloride	ND	---	100	ug/L	10	04/17/23 15:38	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	100	ug/L	10	04/17/23 15:38	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Naphthalene	ND	---	20.0	ug/L	10	04/17/23 15:38	EPA 8260D	
n-Propylbenzene	ND	---	5.00	ug/L	10	04/17/23 15:38	EPA 8260D	
Styrene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	4.00	ug/L	10	04/17/23 15:38	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	5.00	ug/L	10	04/17/23 15:38	EPA 8260D	
Toluene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	20.0	ug/L	10	04/17/23 15:38	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	20.0	ug/L	10	04/17/23 15:38	EPA 8260D	
1,1,1-Trichloroethane	ND	---	4.00	ug/L	10	04/17/23 15:38	EPA 8260D	
1,1,2-Trichloroethane	ND	---	5.00	ug/L	10	04/17/23 15:38	EPA 8260D	
Trichloroethene (TCE)	134	---	4.00	ug/L	10	04/17/23 15:38	EPA 8260D	
Trichlorofluoromethane	ND	---	20.0	ug/L	10	04/17/23 15:38	EPA 8260D	
1,2,3-Trichloropropane	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
Vinyl chloride	ND	---	4.00	ug/L	10	04/17/23 15:38	EPA 8260D	
m,p-Xylene	ND	---	10.0	ug/L	10	04/17/23 15:38	EPA 8260D	
o-Xylene	ND	---	5.00	ug/L	10	04/17/23 15:38	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/17/23 15:38</i>	<i>EPA 8260D</i>

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B3 (A3D1238-08)				Matrix: Water		Batch: 23D0628		V-01
<i>Surrogate: Toluene-d8 (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/17/23 15:38</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/17/23 15:38</i>	<i>EPA 8260D</i>
23-53253 B3 (A3D1238-08RE3)				Matrix: Water		Batch: 23D0859		
Tetrachloroethene (PCE)	12700	---	40.0	ug/L	100	04/21/23 15:35	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 110 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/21/23 15:35</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>109 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/21/23 15:35</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/21/23 15:35</i>	<i>EPA 8260D</i>
23-53253 B4 (A3D1238-09)				Matrix: Water		Batch: 23D0628		
Acetone	ND	---	200	ug/L	10	04/17/23 16:00	EPA 8260D	
Acrylonitrile	ND	---	20.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Benzene	ND	---	2.00	ug/L	10	04/17/23 16:00	EPA 8260D	
Bromobenzene	ND	---	5.00	ug/L	10	04/17/23 16:00	EPA 8260D	
Bromochloromethane	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Bromodichloromethane	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Bromoform	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Bromomethane	ND	---	50.0	ug/L	10	04/17/23 16:00	EPA 8260D	
2-Butanone (MEK)	ND	---	100	ug/L	10	04/17/23 16:00	EPA 8260D	
n-Butylbenzene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
sec-Butylbenzene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
tert-Butylbenzene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Carbon disulfide	ND	---	100	ug/L	10	04/17/23 16:00	EPA 8260D	
Carbon tetrachloride	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Chlorobenzene	ND	---	5.00	ug/L	10	04/17/23 16:00	EPA 8260D	
Chloroethane	ND	---	50.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Chloroform	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Chloromethane	ND	---	50.0	ug/L	10	04/17/23 16:00	EPA 8260D	
2-Chlorotoluene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
4-Chlorotoluene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Dibromochloromethane	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	50.0	ug/L	10	04/17/23 16:00	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	5.00	ug/L	10	04/17/23 16:00	EPA 8260D	
Dibromomethane	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
1,2-Dichlorobenzene	ND	---	5.00	ug/L	10	04/17/23 16:00	EPA 8260D	
1,3-Dichlorobenzene	ND	---	5.00	ug/L	10	04/17/23 16:00	EPA 8260D	
1,4-Dichlorobenzene	ND	---	5.00	ug/L	10	04/17/23 16:00	EPA 8260D	
Dichlorodifluoromethane	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B4 (A3D1238-09)			Matrix: Water		Batch: 23D0628			
1,1-Dichloroethane	ND	---	4.00	ug/L	10	04/17/23 16:00	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	4.00	ug/L	10	04/17/23 16:00	EPA 8260D	
1,1-Dichloroethene	ND	---	4.00	ug/L	10	04/17/23 16:00	EPA 8260D	
cis-1,2-Dichloroethene	140	---	4.00	ug/L	10	04/17/23 16:00	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	4.00	ug/L	10	04/17/23 16:00	EPA 8260D	
1,2-Dichloropropane	ND	---	5.00	ug/L	10	04/17/23 16:00	EPA 8260D	
1,3-Dichloropropane	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
2,2-Dichloropropane	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
1,1-Dichloropropene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Ethylbenzene	ND	---	5.00	ug/L	10	04/17/23 16:00	EPA 8260D	
Hexachlorobutadiene	ND	---	50.0	ug/L	10	04/17/23 16:00	EPA 8260D	
2-Hexanone	ND	---	100	ug/L	10	04/17/23 16:00	EPA 8260D	
Isopropylbenzene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
4-Isopropyltoluene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Methylene chloride	ND	---	100	ug/L	10	04/17/23 16:00	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	100	ug/L	10	04/17/23 16:00	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Naphthalene	ND	---	20.0	ug/L	10	04/17/23 16:00	EPA 8260D	
n-Propylbenzene	ND	---	5.00	ug/L	10	04/17/23 16:00	EPA 8260D	
Styrene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	4.00	ug/L	10	04/17/23 16:00	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	5.00	ug/L	10	04/17/23 16:00	EPA 8260D	
Toluene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	20.0	ug/L	10	04/17/23 16:00	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	20.0	ug/L	10	04/17/23 16:00	EPA 8260D	
1,1,1-Trichloroethane	ND	---	4.00	ug/L	10	04/17/23 16:00	EPA 8260D	
1,1,2-Trichloroethane	ND	---	5.00	ug/L	10	04/17/23 16:00	EPA 8260D	
Trichloroethene (TCE)	116	---	4.00	ug/L	10	04/17/23 16:00	EPA 8260D	
Trichlorofluoromethane	ND	---	20.0	ug/L	10	04/17/23 16:00	EPA 8260D	
1,2,3-Trichloropropane	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
Vinyl chloride	ND	---	4.00	ug/L	10	04/17/23 16:00	EPA 8260D	
m,p-Xylene	ND	---	10.0	ug/L	10	04/17/23 16:00	EPA 8260D	
o-Xylene	ND	---	5.00	ug/L	10	04/17/23 16:00	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/17/23 16:00</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/17/23 16:00</i>	<i>EPA 8260D</i>

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ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-53253 B4 (A3D1238-09)			Matrix: Water		Batch: 23D0628			
<i>Surrogate: 4-Bromofluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/17/23 16:00</i>	<i>EPA 8260D</i>	
23-53253 B4 (A3D1238-09RE1)			Matrix: Water		Batch: 23D0695			
Tetrachloroethene (PCE)	3290	---	8.00	ug/L	20	04/18/23 20:56	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/18/23 20:56</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/18/23 20:56</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>92 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/18/23 20:56</i>	<i>EPA 8260D</i>

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight									
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
23-53253 B1@15' (A3D1238-01)				Matrix: Soil		Batch: 23D0650			
% Solids	86.9	---	1.00	%	1	04/18/23 07:26	EPA 8000D		
23-53253 B2@15' (A3D1238-02)				Matrix: Soil		Batch: 23D0650			
% Solids	84.6	---	1.00	%	1	04/18/23 07:26	EPA 8000D		
23-53253 B3@15' (A3D1238-03)				Matrix: Soil		Batch: 23D0650			
% Solids	34.1	---	1.00	%	1	04/18/23 07:26	EPA 8000D		
23-53253 B4@15' (A3D1238-04)				Matrix: Soil		Batch: 23D0650			
% Solids	68.4	---	1.00	%	1	04/18/23 07:26	EPA 8000D		
23-53253 B3@4' (A3D1238-05)				Matrix: Soil		Batch: 23D0650			
% Solids	79.1	---	1.00	%	1	04/18/23 07:26	EPA 8000D		

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	RPD Limits RPD	RPD Limit	Notes
Batch 23D0628 - EPA 5030C						Water					
Blank (23D0628-BLK1)		Prepared: 04/17/23 08:00 Analyzed: 04/17/23 11:11									
<u>NWTPH-Gx (MS)</u>											
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur)	Recovery: 94 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)	104 %		50-150 %		"						
LCS (23D0628-BS2)						Prepared: 04/17/23 08:00 Analyzed: 04/17/23 10:49					
<u>NWTPH-Gx (MS)</u>											
Gasoline Range Organics	488	---	100	ug/L	1	500	---	98	80 - 120%	---	---
Surr: 4-Bromofluorobenzene (Sur)	Recovery: 92 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)	104 %		50-150 %		"						
Batch 23D0651 - EPA 5035A						Soil					
Blank (23D0651-BLK1)		Prepared: 04/17/23 12:22 Analyzed: 04/17/23 15:23									
<u>NWTPH-Gx (MS)</u>											
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur)	Recovery: 103 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)	100 %		50-150 %		"						
LCS (23D0651-BS2)						Prepared: 04/17/23 12:22 Analyzed: 04/17/23 14:26					
<u>NWTPH-Gx (MS)</u>											
Gasoline Range Organics	27.1	---	5.00	mg/kg wet	50	25.0	---	108	80 - 120%	---	---
Surr: 4-Bromofluorobenzene (Sur)	Recovery: 100 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)	99 %		50-150 %		"						
Duplicate (23D0651-DUPI)		Prepared: 04/14/23 09:45 Analyzed: 04/17/23 16:15									
<u>QC Source Sample: 23-53253 B1@15' (A3D1238-01)</u>											
<u>NWTPH-Gx (MS)</u>											
Gasoline Range Organics	ND	---	4.93	mg/kg dry	50	---	ND	---	---	---	30% Q-05
Surr: 4-Bromofluorobenzene (Sur)	Recovery: 108 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)	101 %		50-150 %		"						

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---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0695 - EPA 5030C						Water						
Blank (23D0695-BLK1)		Prepared: 04/18/23 09:00 Analyzed: 04/18/23 12:21										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>104 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23D0695-BS2)						Prepared: 04/18/23 09:00 Analyzed: 04/18/23 11:54						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	491	---	100	ug/L	1	500	---	98	80 - 120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 102 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>104 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0701 - EPA 5035A						Soil						
Blank (23D0701-BLK1)		Prepared: 04/18/23 08:32 Analyzed: 04/18/23 12:32										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 97 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23D0701-BS2)						Prepared: 04/18/23 08:32 Analyzed: 04/18/23 12:02						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	24.0	---	5.00	mg/kg wet	50	25.0	---	96	80 - 120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>102 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0783 - EPA 5030C						Water						
Blank (23D0783-BLK1)		Prepared: 04/19/23 10:00 Analyzed: 04/20/23 00:03										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>109 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23D0783-BS2)						Prepared: 04/19/23 10:00 Analyzed: 04/19/23 23:41						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	1130	---	100	ug/L	1	1000	---	113	80 - 120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>110 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0859 - EPA 5030C						Water						
Blank (23D0859-BLK1)		Prepared: 04/21/23 09:00 Analyzed: 04/21/23 10:46										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>113 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23D0859-BS2)						Prepared: 04/21/23 09:00 Analyzed: 04/21/23 10:24						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	562	---	100	ug/L	1	500	---	112	80 - 120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 93 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>110 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0628 - EPA 5030C						Water						
Blank (23D0628-BLK1)	Prepared: 04/17/23 08:00 Analyzed: 04/17/23 11:11											
EPA 8260D												
Acetone	ND	---	20.0	ug/L	1	---	---	---	---	---	---	---
Acrylonitrile	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
Bromobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Bromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromodichloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromoform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromomethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
n-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Carbon disulfide	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Chlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Chloroethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
Chloroform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Chloromethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Dibromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Dibromomethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0628 - EPA 5030C						Water						
Blank (23D0628-BLK1)	Prepared: 04/17/23 08:00					Analyzed: 04/17/23 11:11						
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 104 % Limits: 80-120 % Dilution: 1x

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0628 - EPA 5030C						Water						
Blank (23D0628-BLK1)		Prepared: 04/17/23 08:00 Analyzed: 04/17/23 11:11										
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (23D0628-BS1)		Prepared: 04/17/23 08:00 Analyzed: 04/17/23 10:04										
EPA 8260D												
Acetone	40.3	---	20.0	ug/L	1	40.0	---	101	80 - 120%	---	---	
Acrylonitrile	21.3	---	2.00	ug/L	1	20.0	---	107	80 - 120%	---	---	
Benzene	19.2	---	0.200	ug/L	1	20.0	---	96	80 - 120%	---	---	
Bromobenzene	17.6	---	0.500	ug/L	1	20.0	---	88	80 - 120%	---	---	
Bromochloromethane	24.5	---	1.00	ug/L	1	20.0	---	123	80 - 120%	---	---	Q-56
Bromodichloromethane	19.5	---	1.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
Bromoform	18.5	---	1.00	ug/L	1	20.0	---	93	80 - 120%	---	---	
Bromomethane	25.5	---	5.00	ug/L	1	20.0	---	127	80 - 120%	---	---	Q-56
2-Butanone (MEK)	44.1	---	10.0	ug/L	1	40.0	---	110	80 - 120%	---	---	
n-Butylbenzene	20.0	---	1.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
sec-Butylbenzene	19.8	---	1.00	ug/L	1	20.0	---	99	80 - 120%	---	---	
tert-Butylbenzene	17.9	---	1.00	ug/L	1	20.0	---	90	80 - 120%	---	---	
Carbon disulfide	21.9	---	10.0	ug/L	1	20.0	---	110	80 - 120%	---	---	
Carbon tetrachloride	19.0	---	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Chlorobenzene	18.6	---	0.500	ug/L	1	20.0	---	93	80 - 120%	---	---	
Chloroethane	24.2	---	5.00	ug/L	1	20.0	---	121	80 - 120%	---	---	Q-56
Chloroform	19.1	---	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Chloromethane	18.8	---	5.00	ug/L	1	20.0	---	94	80 - 120%	---	---	
2-Chlorotoluene	18.2	---	1.00	ug/L	1	20.0	---	91	80 - 120%	---	---	
4-Chlorotoluene	18.7	---	1.00	ug/L	1	20.0	---	93	80 - 120%	---	---	
Dibromochloromethane	19.2	---	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
1,2-Dibromo-3-chloropropane	16.9	---	5.00	ug/L	1	20.0	---	85	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	19.1	---	0.500	ug/L	1	20.0	---	95	80 - 120%	---	---	
Dibromomethane	19.2	---	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
1,2-Dichlorobenzene	18.8	---	0.500	ug/L	1	20.0	---	94	80 - 120%	---	---	
1,3-Dichlorobenzene	19.0	---	0.500	ug/L	1	20.0	---	95	80 - 120%	---	---	
1,4-Dichlorobenzene	18.4	---	0.500	ug/L	1	20.0	---	92	80 - 120%	---	---	
Dichlorodifluoromethane	20.6	---	1.00	ug/L	1	20.0	---	103	80 - 120%	---	---	
1,1-Dichloroethane	20.5	---	0.400	ug/L	1	20.0	---	103	80 - 120%	---	---	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0628 - EPA 5030C						Water						
LCS (23D0628-BS1)	Prepared: 04/17/23 08:00					Analyzed: 04/17/23 10:04						
1,2-Dichloroethane (EDC)	20.1	---	0.400	ug/L	1	20.0	---	100	80 - 120%	---	---	
1,1-Dichloroethene	21.7	---	0.400	ug/L	1	20.0	---	109	80 - 120%	---	---	
cis-1,2-Dichloroethene	19.9	---	0.400	ug/L	1	20.0	---	99	80 - 120%	---	---	
trans-1,2-Dichloroethene	20.5	---	0.400	ug/L	1	20.0	---	103	80 - 120%	---	---	
1,2-Dichloropropane	21.5	---	0.500	ug/L	1	20.0	---	107	80 - 120%	---	---	
1,3-Dichloropropane	19.7	---	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
2,2-Dichloropropane	20.4	---	1.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
1,1-Dichloropropene	19.7	---	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
cis-1,3-Dichloropropene	19.3	---	1.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
trans-1,3-Dichloropropene	19.7	---	1.00	ug/L	1	20.0	---	99	80 - 120%	---	---	
Ethylbenzene	18.9	---	0.500	ug/L	1	20.0	---	95	80 - 120%	---	---	
Hexachlorobutadiene	17.8	---	5.00	ug/L	1	20.0	---	89	80 - 120%	---	---	
2-Hexanone	40.0	---	10.0	ug/L	1	40.0	---	100	80 - 120%	---	---	
Isopropylbenzene	18.7	---	1.00	ug/L	1	20.0	---	93	80 - 120%	---	---	
4-Isopropyltoluene	18.8	---	1.00	ug/L	1	20.0	---	94	80 - 120%	---	---	
Methylene chloride	21.0	---	10.0	ug/L	1	20.0	---	105	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	40.0	---	10.0	ug/L	1	40.0	---	100	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	20.1	---	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
Naphthalene	17.7	---	2.00	ug/L	1	20.0	---	89	80 - 120%	---	---	
n-Propylbenzene	19.3	---	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
Styrene	19.0	---	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	17.4	---	0.400	ug/L	1	20.0	---	87	80 - 120%	---	---	
1,1,2,2-Tetrachloroethane	19.6	---	0.500	ug/L	1	20.0	---	98	80 - 120%	---	---	
Tetrachloroethene (PCE)	18.2	---	0.400	ug/L	1	20.0	---	91	80 - 120%	---	---	
Toluene	18.8	---	1.00	ug/L	1	20.0	---	94	80 - 120%	---	---	
1,2,3-Trichlorobenzene	17.7	---	2.00	ug/L	1	20.0	---	88	80 - 120%	---	---	
1,2,4-Trichlorobenzene	17.7	---	2.00	ug/L	1	20.0	---	88	80 - 120%	---	---	
1,1,1-Trichloroethane	19.4	---	0.400	ug/L	1	20.0	---	97	80 - 120%	---	---	
1,1,2-Trichloroethane	18.5	---	0.500	ug/L	1	20.0	---	93	80 - 120%	---	---	
Trichloroethene (TCE)	19.2	---	0.400	ug/L	1	20.0	---	96	80 - 120%	---	---	
Trichlorofluoromethane	21.2	---	2.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
1,2,3-Trichloropropane	18.6	---	1.00	ug/L	1	20.0	---	93	80 - 120%	---	---	
1,2,4-Trimethylbenzene	18.6	---	1.00	ug/L	1	20.0	---	93	80 - 120%	---	---	
1,3,5-Trimethylbenzene	18.8	---	1.00	ug/L	1	20.0	---	94	80 - 120%	---	---	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0628 - EPA 5030C						Water						
LCS (23D0628-BS1)		Prepared: 04/17/23 08:00		Analyzed: 04/17/23 10:04								
Vinyl chloride	21.0	---	0.400	ug/L	1	20.0	---	105	80 - 120%	---	---	
m,p-Xylene	37.9	---	1.00	ug/L	1	40.0	---	95	80 - 120%	---	---	
o-Xylene	18.2	---	0.500	ug/L	1	20.0	---	91	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0651 - EPA 5035A						Soil						
Blank (23D0651-BLK1)		Prepared: 04/17/23 12:22 Analyzed: 04/17/23 15:23										
<u>5035A/8260D</u>												
Acetone	ND	---	1.00	mg/kg wet	50	---	---	---	---	---	---	---
Acrylonitrile	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
Benzene	ND	---	0.0100	mg/kg wet	50	---	---	---	---	---	---	---
Bromobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Bromochloromethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Bromodichloromethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Bromoform	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
Bromomethane	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
2-Butanone (MEK)	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
n-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
sec-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
tert-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Carbon disulfide	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
Carbon tetrachloride	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Chlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Chloroethane	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
Chloroform	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Chloromethane	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	---
2-Chlorotoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
4-Chlorotoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Dibromochloromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dibromo-3-chloropropane	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Dibromomethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,3-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,4-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Dichlorodifluoromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
1,1-Dichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,1-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
trans-1,2-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0651 - EPA 5035A						Soil						
Blank (23D0651-BLK1)	Prepared: 04/17/23 12:22					Analyzed: 04/17/23 15:23						
1,2-Dichloropropane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Styrene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	RPD RPD	Notes	
Batch 23D0651 - EPA 5035A						Soil					
Blank (23D0651-BLK1)		Prepared: 04/17/23 12:22 Analyzed: 04/17/23 15:23									
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>					
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>"</i>					
LCS (23D0651-BS1)		Prepared: 04/17/23 12:22 Analyzed: 04/17/23 14:53									
5035A/8260D											
Acetone	1.52	---	1.00	mg/kg wet	50	2.00	---	76	80 - 120%	---	Q-55
Acrylonitrile	0.832	---	0.100	mg/kg wet	50	1.00	---	83	80 - 120%	---	
Benzene	0.880	---	0.0100	mg/kg wet	50	1.00	---	88	80 - 120%	---	
Bromobenzene	0.962	---	0.0250	mg/kg wet	50	1.00	---	96	80 - 120%	---	
Bromochloromethane	0.862	---	0.0500	mg/kg wet	50	1.00	---	86	80 - 120%	---	
Bromodichloromethane	1.14	---	0.0500	mg/kg wet	50	1.00	---	114	80 - 120%	---	
Bromoform	1.20	---	0.100	mg/kg wet	50	1.00	---	120	80 - 120%	---	
Bromomethane	0.920	---	0.500	mg/kg wet	50	1.00	---	92	80 - 120%	---	
2-Butanone (MEK)	1.60	---	0.500	mg/kg wet	50	2.00	---	80	80 - 120%	---	
n-Butylbenzene	1.00	---	0.0500	mg/kg wet	50	1.00	---	100	80 - 120%	---	
sec-Butylbenzene	0.946	---	0.0500	mg/kg wet	50	1.00	---	95	80 - 120%	---	
tert-Butylbenzene	0.922	---	0.0500	mg/kg wet	50	1.00	---	92	80 - 120%	---	
Carbon disulfide	0.990	---	0.500	mg/kg wet	50	1.00	---	99	80 - 120%	---	
Carbon tetrachloride	1.38	---	0.0500	mg/kg wet	50	1.00	---	138	80 - 120%	---	Q-56
Chlorobenzene	0.942	---	0.0250	mg/kg wet	50	1.00	---	94	80 - 120%	---	
Chloroethane	0.916	---	0.500	mg/kg wet	50	1.00	---	92	80 - 120%	---	
Chloroform	0.898	---	0.0500	mg/kg wet	50	1.00	---	90	80 - 120%	---	
Chloromethane	0.826	---	0.250	mg/kg wet	50	1.00	---	83	80 - 120%	---	
2-Chlorotoluene	0.942	---	0.0500	mg/kg wet	50	1.00	---	94	80 - 120%	---	
4-Chlorotoluene	0.952	---	0.0500	mg/kg wet	50	1.00	---	95	80 - 120%	---	
Dibromochloromethane	1.11	---	0.100	mg/kg wet	50	1.00	---	111	80 - 120%	---	
1,2-Dibromo-3-chloropropane	0.936	---	0.250	mg/kg wet	50	1.00	---	94	80 - 120%	---	
1,2-Dibromoethane (EDB)	0.942	---	0.0500	mg/kg wet	50	1.00	---	94	80 - 120%	---	
Dibromomethane	0.926	---	0.0500	mg/kg wet	50	1.00	---	93	80 - 120%	---	
1,2-Dichlorobenzene	0.950	---	0.0250	mg/kg wet	50	1.00	---	95	80 - 120%	---	
1,3-Dichlorobenzene	0.957	---	0.0250	mg/kg wet	50	1.00	---	96	80 - 120%	---	
1,4-Dichlorobenzene	0.946	---	0.0250	mg/kg wet	50	1.00	---	95	80 - 120%	---	
Dichlorodifluoromethane	1.11	---	0.100	mg/kg wet	50	1.00	---	111	80 - 120%	---	
1,1-Dichloroethane	0.886	---	0.0250	mg/kg wet	50	1.00	---	89	80 - 120%	---	

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Cameron O'Brien, Project Manager



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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0651 - EPA 5035A						Soil						
LCS (23D0651-BS1)			Prepared: 04/17/23 12:22 Analyzed: 04/17/23 14:53									
1,2-Dichloroethane (EDC)	0.868	---	0.0250	mg/kg wet	50	1.00	---	87	80 - 120%	---	---	
1,1-Dichloroethene	0.950	---	0.0250	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
cis-1,2-Dichloroethene	0.902	---	0.0250	mg/kg wet	50	1.00	---	90	80 - 120%	---	---	
trans-1,2-Dichloroethene	0.905	---	0.0250	mg/kg wet	50	1.00	---	90	80 - 120%	---	---	
1,2-Dichloropropane	0.903	---	0.0250	mg/kg wet	50	1.00	---	90	80 - 120%	---	---	
1,3-Dichloropropane	0.896	---	0.0500	mg/kg wet	50	1.00	---	90	80 - 120%	---	---	
2,2-Dichloropropane	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80 - 120%	---	---	
1,1-Dichloropropene	0.959	---	0.0500	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
cis-1,3-Dichloropropene	1.08	---	0.0500	mg/kg wet	50	1.00	---	108	80 - 120%	---	---	
trans-1,3-Dichloropropene	1.14	---	0.0500	mg/kg wet	50	1.00	---	114	80 - 120%	---	---	
Ethylbenzene	0.937	---	0.0250	mg/kg wet	50	1.00	---	94	80 - 120%	---	---	
Hexachlorobutadiene	1.00	---	0.100	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
2-Hexanone	1.66	---	0.500	mg/kg wet	50	2.00	---	83	80 - 120%	---	---	
Isopropylbenzene	0.972	---	0.0500	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
4-Isopropyltoluene	0.968	---	0.0500	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
Methylene chloride	0.928	---	0.500	mg/kg wet	50	1.00	---	93	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	1.64	---	0.500	mg/kg wet	50	2.00	---	82	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	0.885	---	0.0500	mg/kg wet	50	1.00	---	89	80 - 120%	---	---	
Naphthalene	0.889	---	0.100	mg/kg wet	50	1.00	---	89	80 - 120%	---	---	
n-Propylbenzene	0.952	---	0.0250	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
Styrene	0.934	---	0.0500	mg/kg wet	50	1.00	---	93	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	1.28	---	0.0250	mg/kg wet	50	1.00	---	128	80 - 120%	---	---	Q-56
1,1,1,2,2-Tetrachloroethane	0.703	---	0.0500	mg/kg wet	50	1.00	---	70	80 - 120%	---	---	Q-55
Tetrachloroethene (PCE)	0.972	---	0.0250	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
Toluene	0.884	---	0.0500	mg/kg wet	50	1.00	---	88	80 - 120%	---	---	
1,2,3-Trichlorobenzene	0.918	---	0.250	mg/kg wet	50	1.00	---	92	80 - 120%	---	---	
1,2,4-Trichlorobenzene	0.952	---	0.250	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
1,1,1-Trichloroethane	1.03	---	0.0250	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	
1,1,2-Trichloroethane	0.909	---	0.0250	mg/kg wet	50	1.00	---	91	80 - 120%	---	---	
Trichloroethene (TCE)	1.06	---	0.0250	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
Trichlorofluoromethane	1.21	---	0.100	mg/kg wet	50	1.00	---	121	80 - 120%	---	---	Q-56
1,2,3-Trichloropropane	0.858	---	0.0500	mg/kg wet	50	1.00	---	86	80 - 120%	---	---	
1,2,4-Trimethylbenzene	0.986	---	0.0500	mg/kg wet	50	1.00	---	99	80 - 120%	---	---	
1,3,5-Trimethylbenzene	0.989	---	0.0500	mg/kg wet	50	1.00	---	99	80 - 120%	---	---	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	RPD Limits RPD	RPD Limit	Notes
Batch 23D0651 - EPA 5035A						Soil					
LCS (23D0651-BS1)			Prepared: 04/17/23 12:22			Analyzed: 04/17/23 14:53					
Vinyl chloride	0.917	---	0.0250	mg/kg wet	50	1.00	---	92	80 - 120%	---	---
m,p-Xylene	1.93	---	0.0500	mg/kg wet	50	2.00	---	96	80 - 120%	---	---
o-Xylene	0.935	---	0.0250	mg/kg wet	50	1.00	---	93	80 - 120%	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>					
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>					
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>"</i>					

Duplicate (23D0651-DUP1)	Prepared: 04/14/23 09:45	Analyzed: 04/17/23 16:15
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QC Source Sample: 23-53253 B1@15' (A3D1238-01)

5035A/8260D

Acetone	ND	---	0.986	mg/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	---	0.0986	mg/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	---	0.00986	mg/kg dry	50	---	ND	---	---	---	30%
Bromobenzene	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	---	0.0986	mg/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	---	0.493	mg/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	---	0.493	mg/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	---	0.493	mg/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
Chlorobenzene	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	---	0.493	mg/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	---	0.247	mg/kg dry	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	---	0.0986	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	---	0.247	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
Dibromomethane	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	RPD Limits RPD	RPD Limit	Notes
Batch 23D0651 - EPA 5035A						Soil					
Duplicate (23D0651-DUP1)		Prepared: 04/14/23 09:45 Analyzed: 04/17/23 16:15									
QC Source Sample: 23-53253 B1@15' (A3D1238-01)											
1,2-Dichlorobenzene	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
1,3-Dichlorobenzene	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
1,4-Dichlorobenzene	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
Dichlorodifluoromethane	ND	---	0.0986	mg/kg dry	50	---	ND	---	---	---	30%
1,1-Dichloroethane	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dichloroethane (EDC)	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
1,1-Dichloroethene	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
cis-1,2-Dichloroethene	ND	---	0.0247	mg/kg dry	50	---	0.0163	---	---	***	30%
trans-1,2-Dichloroethene	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dichloropropane	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
1,3-Dichloropropane	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
2,2-Dichloropropane	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
1,1-Dichloropropene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
cis-1,3-Dichloropropene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
trans-1,3-Dichloropropene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
Ethylbenzene	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
Hexachlorobutadiene	ND	---	0.0986	mg/kg dry	50	---	ND	---	---	---	30%
2-Hexanone	ND	---	0.493	mg/kg dry	50	---	ND	---	---	---	30%
Isopropylbenzene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
4-Isopropyltoluene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
Methylene chloride	ND	---	0.493	mg/kg dry	50	---	ND	---	---	---	30%
4-Methyl-2-pentanone (MiBK)	ND	---	0.493	mg/kg dry	50	---	ND	---	---	---	30%
Methyl tert-butyl ether (MTBE)	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
Naphthalene	ND	---	0.0986	mg/kg dry	50	---	ND	---	---	---	30%
n-Propylbenzene	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
Styrene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
1,1,1,2-Tetrachloroethane	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%
1,1,2,2-Tetrachloroethane	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
Tetrachloroethene (PCE)	0.639	---	0.0247	mg/kg dry	50	---	0.678	---	---	6	30%
Toluene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	---	30%
1,2,3-Trichlorobenzene	ND	---	0.247	mg/kg dry	50	---	ND	---	---	---	30%
1,2,4-Trichlorobenzene	ND	---	0.247	mg/kg dry	50	---	ND	---	---	---	30%
1,1,1-Trichloroethane	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	---	30%

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	RPD RPD	Notes
Batch 23D0651 - EPA 5035A						Soil				
Duplicate (23D0651-DUP1)		Prepared: 04/14/23 09:45 Analyzed: 04/17/23 16:15								
QC Source Sample: 23-53253 B1@15' (A3D1238-01)										
1,1,2-Trichloroethane	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	30%
Trichloroethene (TCE)	ND	---	0.0247	mg/kg dry	50	---	0.0143	---	---	*** 30%
Trichlorofluoromethane	ND	---	0.0986	mg/kg dry	50	---	ND	---	---	30%
1,2,3-Trichloropropane	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	30%
1,2,4-Trimethylbenzene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	30%
1,3,5-Trimethylbenzene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	30%
Vinyl chloride	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	30%
m,p-Xylene	ND	---	0.0493	mg/kg dry	50	---	ND	---	---	30%
o-Xylene	ND	---	0.0247	mg/kg dry	50	---	ND	---	---	30%
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>				
<i>Toluene-d8 (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>				
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>79-120 %</i>		<i>"</i>				

Matrix Spike (23D0651-MS1)						Prepared: 04/14/23 10:15 Analyzed: 04/17/23 18:48					
QC Source Sample: 23-53253 B2@15' (A3D1238-02)											
5035A/8260D											
Acetone	2.09	---	1.08	mg/kg dry	50	2.16	ND	97	36 - 164%	---	Q-54q
Acrylonitrile	1.13	---	0.108	mg/kg dry	50	1.08	ND	104	65 - 134%	---	
Benzene	1.11	---	0.0108	mg/kg dry	50	1.08	ND	103	77 - 121%	---	
Bromobenzene	1.15	---	0.0270	mg/kg dry	50	1.08	ND	106	78 - 121%	---	
Bromochloromethane	1.11	---	0.0540	mg/kg dry	50	1.08	ND	102	78 - 125%	---	
Bromodichloromethane	1.39	---	0.0540	mg/kg dry	50	1.08	ND	128	75 - 127%	---	Q-01
Bromoform	1.44	---	0.108	mg/kg dry	50	1.08	ND	133	67 - 132%	---	Q-01
Bromomethane	1.27	---	0.540	mg/kg dry	50	1.08	ND	117	53 - 143%	---	
2-Butanone (MEK)	2.13	---	0.540	mg/kg dry	50	2.16	ND	98	51 - 148%	---	
n-Butylbenzene	1.16	---	0.0540	mg/kg dry	50	1.08	ND	108	70 - 128%	---	
sec-Butylbenzene	1.14	---	0.0540	mg/kg dry	50	1.08	ND	105	73 - 126%	---	
tert-Butylbenzene	1.12	---	0.0540	mg/kg dry	50	1.08	ND	103	73 - 125%	---	
Carbon disulfide	1.27	---	0.540	mg/kg dry	50	1.08	ND	117	63 - 132%	---	
Carbon tetrachloride	1.75	---	0.0540	mg/kg dry	50	1.08	ND	162	70 - 135%	---	Q-54e
Chlorobenzene	1.16	---	0.0270	mg/kg dry	50	1.08	ND	107	79 - 120%	---	
Chloroethane	1.31	---	0.540	mg/kg dry	50	1.08	ND	121	59 - 139%	---	
Chloroform	1.14	---	0.0540	mg/kg dry	50	1.08	ND	105	78 - 123%	---	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	RPD RPD	Notes	
Batch 23D0651 - EPA 5035A							Soil				
Matrix Spike (23D0651-MS1)		Prepared: 04/14/23 10:15 Analyzed: 04/17/23 18:48									
QC Source Sample: 23-53253 B2@15' (A3D1238-02)											
Chloromethane	1.11	---	0.270	mg/kg dry	50	1.08	ND	102 50 - 136%	---	---	
2-Chlorotoluene	1.13	---	0.0540	mg/kg dry	50	1.08	ND	105 75 - 122%	---	---	
4-Chlorotoluene	1.13	---	0.0540	mg/kg dry	50	1.08	ND	104 72 - 124%	---	---	
Dibromochloromethane	1.33	---	0.108	mg/kg dry	50	1.08	ND	123 74 - 126%	---	---	
1,2-Dibromo-3-chloropropane	1.15	---	0.270	mg/kg dry	50	1.08	ND	107 61 - 132%	---	---	
1,2-Dibromoethane (EDB)	1.20	---	0.0540	mg/kg dry	50	1.08	ND	111 78 - 122%	---	---	
Dibromomethane	1.16	---	0.0540	mg/kg dry	50	1.08	ND	107 78 - 125%	---	---	
1,2-Dichlorobenzene	1.12	---	0.0270	mg/kg dry	50	1.08	ND	103 78 - 121%	---	---	
1,3-Dichlorobenzene	1.14	---	0.0270	mg/kg dry	50	1.08	ND	105 77 - 121%	---	---	
1,4-Dichlorobenzene	1.10	---	0.0270	mg/kg dry	50	1.08	ND	102 75 - 120%	---	---	
Dichlorodifluoromethane	1.50	---	0.108	mg/kg dry	50	1.08	ND	138 29 - 149%	---	---	
1,1-Dichloroethane	1.14	---	0.0270	mg/kg dry	50	1.08	ND	106 76 - 125%	---	---	
1,2-Dichloroethane (EDC)	1.08	---	0.0270	mg/kg dry	50	1.08	ND	100 73 - 128%	---	---	
1,1-Dichloroethene	1.25	---	0.0270	mg/kg dry	50	1.08	ND	116 70 - 131%	---	---	
cis-1,2-Dichloroethene	1.21	---	0.0270	mg/kg dry	50	1.08	0.0470	108 77 - 123%	---	---	
trans-1,2-Dichloroethene	1.18	---	0.0270	mg/kg dry	50	1.08	ND	109 74 - 125%	---	---	
1,2-Dichloropropane	1.12	---	0.0270	mg/kg dry	50	1.08	ND	104 76 - 123%	---	---	
1,3-Dichloropropane	1.12	---	0.0540	mg/kg dry	50	1.08	ND	104 77 - 121%	---	---	
2,2-Dichloropropane	1.20	---	0.0540	mg/kg dry	50	1.08	ND	111 67 - 133%	---	---	
1,1-Dichloropropene	1.23	---	0.0540	mg/kg dry	50	1.08	ND	113 76 - 125%	---	---	
cis-1,3-Dichloropropene	1.30	---	0.0540	mg/kg dry	50	1.08	ND	121 74 - 126%	---	---	
trans-1,3-Dichloropropene	1.36	---	0.0540	mg/kg dry	50	1.08	ND	126 71 - 130%	---	---	
Ethylbenzene	1.15	---	0.0270	mg/kg dry	50	1.08	ND	107 76 - 122%	---	---	
Hexachlorobutadiene	1.18	---	0.108	mg/kg dry	50	1.08	ND	110 61 - 135%	---	---	
2-Hexanone	2.20	---	0.540	mg/kg dry	50	2.16	ND	102 53 - 145%	---	---	
Isopropylbenzene	1.19	---	0.0540	mg/kg dry	50	1.08	ND	110 68 - 134%	---	---	
4-Isopropyltoluene	1.15	---	0.0540	mg/kg dry	50	1.08	ND	106 73 - 127%	---	---	
Methylene chloride	1.18	---	0.540	mg/kg dry	50	1.08	ND	109 70 - 128%	---	---	
4-Methyl-2-pentanone (MiBK)	2.14	---	0.540	mg/kg dry	50	2.16	ND	99 65 - 135%	---	---	
Methyl tert-butyl ether (MTBE)	1.12	---	0.0540	mg/kg dry	50	1.08	ND	103 73 - 125%	---	---	
Naphthalene	1.09	---	0.108	mg/kg dry	50	1.08	ND	101 62 - 129%	---	---	
n-Propylbenzene	1.16	---	0.0270	mg/kg dry	50	1.08	ND	107 73 - 125%	---	---	
Styrene	1.13	---	0.0540	mg/kg dry	50	1.08	ND	104 76 - 124%	---	---	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	RPD RPD	Notes		
Batch 23D0651 - EPA 5035A						Soil						
Matrix Spike (23D0651-MS1)		Prepared: 04/14/23 10:15 Analyzed: 04/17/23 18:48										
QC Source Sample: 23-53253 B2@15' (A3D1238-02)												
1,1,1,2-Tetrachloroethane	1.55	---	0.0270	mg/kg dry	50	1.08	ND	143	78 - 125%	---	---	Q-54n
1,1,2,2-Tetrachloroethane	0.865	---	0.0540	mg/kg dry	50	1.08	ND	80	70 - 124%	---	---	Q-54o
Tetrachloroethene (PCE)	2.04	---	0.0270	mg/kg dry	50	1.08	0.780	117	73 - 128%	---	---	
Toluene	1.12	---	0.0540	mg/kg dry	50	1.08	ND	103	77 - 121%	---	---	
1,2,3-Trichlorobenzene	1.08	---	0.270	mg/kg dry	50	1.08	ND	99	66 - 130%	---	---	
1,2,4-Trichlorobenzene	1.12	---	0.270	mg/kg dry	50	1.08	ND	103	67 - 129%	---	---	
1,1,1-Trichloroethane	1.32	---	0.0270	mg/kg dry	50	1.08	ND	122	73 - 130%	---	---	
1,1,2-Trichloroethane	1.15	---	0.0270	mg/kg dry	50	1.08	ND	106	78 - 121%	---	---	
Trichloroethene (TCE)	1.40	---	0.0270	mg/kg dry	50	1.08	0.0405	125	77 - 123%	---	---	Q-01
Trichlorofluoromethane	2.37	---	0.108	mg/kg dry	50	1.08	ND	219	62 - 140%	---	---	Q-54
1,2,3-Trichloropropane	1.06	---	0.0540	mg/kg dry	50	1.08	ND	98	73 - 125%	---	---	
1,2,4-Trimethylbenzene	1.19	---	0.0540	mg/kg dry	50	1.08	ND	110	75 - 123%	---	---	
1,3,5-Trimethylbenzene	1.17	---	0.0540	mg/kg dry	50	1.08	ND	108	73 - 124%	---	---	
Vinyl chloride	1.33	---	0.0270	mg/kg dry	50	1.08	ND	123	56 - 135%	---	---	
m,p-Xylene	2.35	---	0.0540	mg/kg dry	50	2.16	ND	108	77 - 124%	---	---	
o-Xylene	1.15	---	0.0270	mg/kg dry	50	1.08	ND	106	77 - 123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>"</i>						

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0695 - EPA 5030C						Water						
Blank (23D0695-BLK1)		Prepared: 04/18/23 09:00			Analyzed: 04/18/23 12:21							
EPA 8260D												
Acetone	ND	---	20.0	ug/L	1	---	---	---	---	---	---	---
Acrylonitrile	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
Bromobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Bromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromodichloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromoform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromomethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
n-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Carbon disulfide	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Chlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Chloroethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
Chloroform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Chloromethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Dibromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Dibromomethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0695 - EPA 5030C						Water						
Blank (23D0695-BLK1)	Prepared: 04/18/23 09:00		Analyzed: 04/18/23 12:21									
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 97 % Limits: 80-120 % Dilution: 1x

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0695 - EPA 5030C						Water						
Blank (23D0695-BLK1)		Prepared: 04/18/23 09:00			Analyzed: 04/18/23 12:21							
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>106 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (23D0695-BS1)		Prepared: 04/18/23 09:00			Analyzed: 04/18/23 11:00							
EPA 8260D												
Acetone	40.3	---	20.0	ug/L	1	40.0	---	101	80 - 120%	---	---	
Acrylonitrile	19.7	---	2.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
Benzene	19.2	---	0.200	ug/L	1	20.0	---	96	80 - 120%	---	---	
Bromobenzene	17.6	---	0.500	ug/L	1	20.0	---	88	80 - 120%	---	---	
Bromochloromethane	20.2	---	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
Bromodichloromethane	19.4	---	1.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
Bromoform	16.0	---	1.00	ug/L	1	20.0	---	80	80 - 120%	---	---	
Bromomethane	20.5	---	5.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
2-Butanone (MEK)	41.4	---	10.0	ug/L	1	40.0	---	103	80 - 120%	---	---	
n-Butylbenzene	21.8	---	1.00	ug/L	1	20.0	---	109	80 - 120%	---	---	
sec-Butylbenzene	20.0	---	1.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
tert-Butylbenzene	19.0	---	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Carbon disulfide	15.3	---	10.0	ug/L	1	20.0	---	76	80 - 120%	---	---	Q-55
Carbon tetrachloride	20.8	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
Chlorobenzene	20.1	---	0.500	ug/L	1	20.0	---	101	80 - 120%	---	---	
Chloroethane	24.0	---	5.00	ug/L	1	20.0	---	120	80 - 120%	---	---	ICV-01
Chloroform	19.4	---	1.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
Chloromethane	19.4	---	5.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
2-Chlorotoluene	17.8	---	1.00	ug/L	1	20.0	---	89	80 - 120%	---	---	
4-Chlorotoluene	19.2	---	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
Dibromochloromethane	19.1	---	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
1,2-Dibromo-3-chloropropane	17.4	---	5.00	ug/L	1	20.0	---	87	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	20.0	---	0.500	ug/L	1	20.0	---	100	80 - 120%	---	---	
Dibromomethane	19.6	---	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
1,2-Dichlorobenzene	19.9	---	0.500	ug/L	1	20.0	---	100	80 - 120%	---	---	
1,3-Dichlorobenzene	19.3	---	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
1,4-Dichlorobenzene	19.4	---	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
Dichlorodifluoromethane	22.4	---	1.00	ug/L	1	20.0	---	112	80 - 120%	---	---	
1,1-Dichloroethane	19.8	---	0.400	ug/L	1	20.0	---	99	80 - 120%	---	---	

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Cameron O'Brien, Project Manager



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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0695 - EPA 5030C						Water						
LCS (23D0695-BS1)	Prepared: 04/18/23 09:00					Analyzed: 04/18/23 11:00						
1,2-Dichloroethane (EDC)	21.7	---	0.400	ug/L	1	20.0	---	109	80 - 120%	---	---	
1,1-Dichloroethene	21.2	---	0.400	ug/L	1	20.0	---	106	80 - 120%	---	---	
cis-1,2-Dichloroethene	20.4	---	0.400	ug/L	1	20.0	---	102	80 - 120%	---	---	
trans-1,2-Dichloroethene	20.0	---	0.400	ug/L	1	20.0	---	100	80 - 120%	---	---	
1,2-Dichloropropane	19.7	---	0.500	ug/L	1	20.0	---	98	80 - 120%	---	---	
1,3-Dichloropropane	20.6	---	1.00	ug/L	1	20.0	---	103	80 - 120%	---	---	
2,2-Dichloropropane	19.8	---	1.00	ug/L	1	20.0	---	99	80 - 120%	---	---	
1,1-Dichloropropene	20.4	---	1.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
cis-1,3-Dichloropropene	19.5	---	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
trans-1,3-Dichloropropene	20.2	---	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
Ethylbenzene	20.4	---	0.500	ug/L	1	20.0	---	102	80 - 120%	---	---	
Hexachlorobutadiene	22.9	---	5.00	ug/L	1	20.0	---	115	80 - 120%	---	---	
2-Hexanone	41.3	---	10.0	ug/L	1	40.0	---	103	80 - 120%	---	---	
Isopropylbenzene	21.2	---	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
4-Isopropyltoluene	20.8	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
Methylene chloride	19.2	---	10.0	ug/L	1	20.0	---	96	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	42.2	---	10.0	ug/L	1	40.0	---	105	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	18.2	---	1.00	ug/L	1	20.0	---	91	80 - 120%	---	---	
Naphthalene	18.1	---	2.00	ug/L	1	20.0	---	90	80 - 120%	---	---	
n-Propylbenzene	18.7	---	0.500	ug/L	1	20.0	---	93	80 - 120%	---	---	
Styrene	20.8	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	20.4	---	0.400	ug/L	1	20.0	---	102	80 - 120%	---	---	
1,1,2,2-Tetrachloroethane	18.0	---	0.500	ug/L	1	20.0	---	90	80 - 120%	---	---	
Tetrachloroethene (PCE)	19.8	---	0.400	ug/L	1	20.0	---	99	80 - 120%	---	---	
Toluene	19.1	---	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
1,2,3-Trichlorobenzene	21.3	---	2.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
1,2,4-Trichlorobenzene	21.5	---	2.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
1,1,1-Trichloroethane	20.1	---	0.400	ug/L	1	20.0	---	100	80 - 120%	---	---	
1,1,2-Trichloroethane	19.3	---	0.500	ug/L	1	20.0	---	96	80 - 120%	---	---	
Trichloroethene (TCE)	19.3	---	0.400	ug/L	1	20.0	---	97	80 - 120%	---	---	
Trichlorofluoromethane	25.4	---	2.00	ug/L	1	20.0	---	127	80 - 120%	---	---	Q-56
1,2,3-Trichloropropane	19.2	---	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
1,2,4-Trimethylbenzene	20.8	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
1,3,5-Trimethylbenzene	20.3	---	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	

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Cameron O'Brien, Project Manager



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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0695 - EPA 5030C						Water						
LCS (23D0695-BS1)		Prepared: 04/18/23 09:00		Analyzed: 04/18/23 11:00								
Vinyl chloride	20.1	---	0.400	ug/L	1	20.0	---	100	80 - 120%	---	---	
m,p-Xylene	41.2	---	1.00	ug/L	1	40.0	---	103	80 - 120%	---	---	
o-Xylene	19.9	---	0.500	ug/L	1	20.0	---	99	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>89 %</i>		<i>80-120 %</i>		<i>"</i>						

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503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0701 - EPA 5035A						Soil						
Blank (23D0701-BLK1)		Prepared: 04/18/23 08:32 Analyzed: 04/18/23 12:32										
<u>5035A/8260D</u>												
Acetone	ND	---	1.00	mg/kg wet	50	---	---	---	---	---	---	---
Acrylonitrile	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
Benzene	ND	---	0.0100	mg/kg wet	50	---	---	---	---	---	---	---
Bromobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Bromochloromethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Bromodichloromethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Bromoform	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
Bromomethane	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
2-Butanone (MEK)	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
n-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
sec-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
tert-Butylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Carbon disulfide	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
Carbon tetrachloride	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Chlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Chloroethane	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---	---
Chloroform	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Chloromethane	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	---
2-Chlorotoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
4-Chlorotoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Dibromochloromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dibromo-3-chloropropane	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
Dibromomethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,3-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,4-Dichlorobenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
Dichlorodifluoromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---	---
1,1-Dichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
1,1-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---
trans-1,2-Dichloroethene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---	---

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC % REC	RPD Limits RPD	RPD Limit	Notes
Batch 23D0701 - EPA 5035A						Soil					
Blank (23D0701-BLK1)	Prepared: 04/18/23 08:32					Analyzed: 04/18/23 12:32					
1,2-Dichloropropane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---
1,3-Dichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
2,2-Dichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
1,1-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
cis-1,3-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
trans-1,3-Dichloropropene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
Ethylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---
Hexachlorobutadiene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---
2-Hexanone	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---
Isopropylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
4-Isopropyltoluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
Methylene chloride	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---
4-Methyl-2-pentanone (MiBK)	ND	---	0.500	mg/kg wet	50	---	---	---	---	---	---
Methyl tert-butyl ether (MTBE)	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
Naphthalene	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---
n-Propylbenzene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---
Styrene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
1,1,1,2-Tetrachloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
Tetrachloroethene (PCE)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---
Toluene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
1,2,3-Trichlorobenzene	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---
1,2,4-Trichlorobenzene	ND	---	0.250	mg/kg wet	50	---	---	---	---	---	---
1,1,1-Trichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---
1,1,2-Trichloroethane	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---
Trichloroethene (TCE)	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---
Trichlorofluoromethane	ND	---	0.100	mg/kg wet	50	---	---	---	---	---	---
1,2,3-Trichloropropane	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
1,3,5-Trimethylbenzene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
Vinyl chloride	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---
m,p-Xylene	ND	---	0.0500	mg/kg wet	50	---	---	---	---	---	---
o-Xylene	ND	---	0.0250	mg/kg wet	50	---	---	---	---	---	---

Surr: 1,4-Difluorobenzene (Surr) Recovery: 103 % Limits: 80-120 % Dilution: 1x

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0701 - EPA 5035A						Soil						
Blank (23D0701-BLK1)		Prepared: 04/18/23 08:32 Analyzed: 04/18/23 12:32										
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23D0701-BS1)		Prepared: 04/18/23 08:32 Analyzed: 04/18/23 11:36										
5035A/8260D												
Acetone	1.78	---	1.00	mg/kg wet	50	2.00	---	89	80 - 120%	---	---	
Acrylonitrile	0.956	---	0.100	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
Benzene	1.03	---	0.0100	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	
Bromobenzene	0.999	---	0.0250	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
Bromochloromethane	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
Bromodichloromethane	0.931	---	0.0500	mg/kg wet	50	1.00	---	93	80 - 120%	---	---	
Bromoform	0.929	---	0.100	mg/kg wet	50	1.00	---	93	80 - 120%	---	---	
Bromomethane	1.20	---	0.500	mg/kg wet	50	1.00	---	120	80 - 120%	---	---	
2-Butanone (MEK)	1.80	---	0.500	mg/kg wet	50	2.00	---	90	80 - 120%	---	---	
n-Butylbenzene	1.00	---	0.0500	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
sec-Butylbenzene	1.00	---	0.0500	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
tert-Butylbenzene	0.965	---	0.0500	mg/kg wet	50	1.00	---	96	80 - 120%	---	---	
Carbon disulfide	1.20	---	0.500	mg/kg wet	50	1.00	---	120	80 - 120%	---	---	
Carbon tetrachloride	0.916	---	0.0500	mg/kg wet	50	1.00	---	92	80 - 120%	---	---	
Chlorobenzene	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
Chloroethane	1.38	---	0.500	mg/kg wet	50	1.00	---	138	80 - 120%	---	---	Q-56
Chloroform	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
Chloromethane	1.03	---	0.250	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	
2-Chlorotoluene	1.03	---	0.0500	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	
4-Chlorotoluene	0.978	---	0.0500	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Dibromochloromethane	1.01	---	0.100	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
1,2-Dibromo-3-chloropropane	0.816	---	0.250	mg/kg wet	50	1.00	---	82	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
Dibromomethane	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
1,2-Dichlorobenzene	1.00	---	0.0250	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
1,3-Dichlorobenzene	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
1,4-Dichlorobenzene	0.982	---	0.0250	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
Dichlorodifluoromethane	1.27	---	0.100	mg/kg wet	50	1.00	---	127	80 - 120%	---	---	Q-56
1,1-Dichloroethane	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	

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Cameron O'Brien, Project Manager



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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0701 - EPA 5035A						Soil						
LCS (23D0701-BS1)	Prepared: 04/18/23 08:32 Analyzed: 04/18/23 11:36											
1,2-Dichloroethane (EDC)	0.977	---	0.0250	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
1,1-Dichloroethene	1.26	---	0.0250	mg/kg wet	50	1.00	---	126	80 - 120%	---	---	Q-56
cis-1,2-Dichloroethene	0.978	---	0.0250	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
trans-1,2-Dichloroethene	0.992	---	0.0250	mg/kg wet	50	1.00	---	99	80 - 120%	---	---	
1,2-Dichloropropane	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
1,3-Dichloropropane	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
2,2-Dichloropropane	0.938	---	0.0500	mg/kg wet	50	1.00	---	94	80 - 120%	---	---	
1,1-Dichloropropene	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80 - 120%	---	---	
cis-1,3-Dichloropropene	0.948	---	0.0500	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
trans-1,3-Dichloropropene	0.948	---	0.0500	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
Ethylbenzene	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80 - 120%	---	---	
Hexachlorobutadiene	0.972	---	0.100	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
2-Hexanone	1.66	---	0.500	mg/kg wet	50	2.00	---	83	80 - 120%	---	---	
Isopropylbenzene	0.966	---	0.0500	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
4-Isopropyltoluene	1.00	---	0.0500	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
Methylene chloride	1.10	---	0.500	mg/kg wet	50	1.00	---	110	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	1.75	---	0.500	mg/kg wet	50	2.00	---	87	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	0.951	---	0.0500	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
Naphthalene	0.948	---	0.100	mg/kg wet	50	1.00	---	95	80 - 120%	---	---	
n-Propylbenzene	1.03	---	0.0250	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	
Styrene	0.990	---	0.0500	mg/kg wet	50	1.00	---	99	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	0.945	---	0.0250	mg/kg wet	50	1.00	---	94	80 - 120%	---	---	
1,1,1,2,2-Tetrachloroethane	0.938	---	0.0500	mg/kg wet	50	1.00	---	94	80 - 120%	---	---	
Tetrachloroethene (PCE)	1.03	---	0.0250	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	
Toluene	0.971	---	0.0500	mg/kg wet	50	1.00	---	97	80 - 120%	---	---	
1,2,3-Trichlorobenzene	1.04	---	0.250	mg/kg wet	50	1.00	---	104	80 - 120%	---	---	
1,2,4-Trichlorobenzene	0.996	---	0.250	mg/kg wet	50	1.00	---	100	80 - 120%	---	---	
1,1,1-Trichloroethane	0.984	---	0.0250	mg/kg wet	50	1.00	---	98	80 - 120%	---	---	
1,1,2-Trichloroethane	1.03	---	0.0250	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	
Trichloroethene (TCE)	1.07	---	0.0250	mg/kg wet	50	1.00	---	107	80 - 120%	---	---	
Trichlorofluoromethane	1.32	---	0.100	mg/kg wet	50	1.00	---	132	80 - 120%	---	---	Q-56
1,2,3-Trichloropropane	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80 - 120%	---	---	
1,2,4-Trimethylbenzene	1.03	---	0.0500	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	
1,3,5-Trimethylbenzene	1.03	---	0.0500	mg/kg wet	50	1.00	---	103	80 - 120%	---	---	

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Cameron O'Brien, Project Manager



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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0701 - EPA 5035A						Soil						
LCS (23D0701-BS1)		Prepared: 04/18/23 08:32 Analyzed: 04/18/23 11:36										
Vinyl chloride	1.10	---	0.0250	mg/kg wet	50	1.00	---	110	80 - 120%	---	---	
m,p-Xylene	2.04	---	0.0500	mg/kg wet	50	2.00	---	102	80 - 120%	---	---	
o-Xylene	0.988	---	0.0250	mg/kg wet	50	1.00	---	99	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>79-120 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0783 - EPA 5030C						Water						
Blank (23D0783-BLK1)		Prepared: 04/19/23 10:00			Analyzed: 04/20/23 00:03							
EPA 8260D												
Acetone	ND	---	20.0	ug/L	1	---	---	---	---	---	---	---
Acrylonitrile	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
Bromobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Bromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromodichloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromoform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromomethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
n-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Carbon disulfide	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Chlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Chloroethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
Chloroform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Chloromethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Dibromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Dibromomethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0783 - EPA 5030C						Water						
Blank (23D0783-BLK1)	Prepared: 04/19/23 10:00					Analyzed: 04/20/23 00:03						
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
2-Hexanone	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Methylene chloride	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
n-Propylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Styrene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Vinyl chloride	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
m,p-Xylene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
o-Xylene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---

Surr: 1,4-Difluorobenzene (Surr) Recovery: 105 % Limits: 80-120 % Dilution: 1x

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0783 - EPA 5030C						Water						
Blank (23D0783-BLK1)		Prepared: 04/19/23 10:00		Analyzed: 04/20/23 00:03								
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (23D0783-BS1)		Prepared: 04/19/23 10:00		Analyzed: 04/19/23 23:19								
EPA 8260D												
Acetone	50.5	---	20.0	ug/L	1	40.0	---	126	80 - 120%	---	---	Q-56
Acrylonitrile	25.3	---	2.00	ug/L	1	20.0	---	127	80 - 120%	---	---	Q-56
Benzene	21.8	---	0.200	ug/L	1	20.0	---	109	80 - 120%	---	---	
Bromobenzene	18.9	---	0.500	ug/L	1	20.0	---	94	80 - 120%	---	---	
Bromochloromethane	30.8	---	1.00	ug/L	1	20.0	---	154	80 - 120%	---	---	Q-56
Bromodichloromethane	20.7	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
Bromoform	17.7	---	1.00	ug/L	1	20.0	---	89	80 - 120%	---	---	
Bromomethane	26.8	---	5.00	ug/L	1	20.0	---	134	80 - 120%	---	---	Q-56
2-Butanone (MEK)	50.5	---	10.0	ug/L	1	40.0	---	126	80 - 120%	---	---	Q-56
n-Butylbenzene	21.3	---	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
sec-Butylbenzene	20.8	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
tert-Butylbenzene	18.6	---	1.00	ug/L	1	20.0	---	93	80 - 120%	---	---	
Carbon disulfide	24.7	---	10.0	ug/L	1	20.0	---	124	80 - 120%	---	---	Q-56
Carbon tetrachloride	20.8	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
Chlorobenzene	20.1	---	0.500	ug/L	1	20.0	---	100	80 - 120%	---	---	
Chloroethane	28.7	---	5.00	ug/L	1	20.0	---	144	80 - 120%	---	---	Q-56
Chloroform	21.5	---	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
Chloromethane	22.8	---	5.00	ug/L	1	20.0	---	114	80 - 120%	---	---	
2-Chlorotoluene	19.2	---	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
4-Chlorotoluene	19.8	---	1.00	ug/L	1	20.0	---	99	80 - 120%	---	---	
Dibromochloromethane	19.1	---	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
1,2-Dibromo-3-chloropropane	16.7	---	5.00	ug/L	1	20.0	---	84	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	19.7	---	0.500	ug/L	1	20.0	---	99	80 - 120%	---	---	
Dibromomethane	22.5	---	1.00	ug/L	1	20.0	---	112	80 - 120%	---	---	
1,2-Dichlorobenzene	19.9	---	0.500	ug/L	1	20.0	---	99	80 - 120%	---	---	
1,3-Dichlorobenzene	20.1	---	0.500	ug/L	1	20.0	---	100	80 - 120%	---	---	
1,4-Dichlorobenzene	19.5	---	0.500	ug/L	1	20.0	---	98	80 - 120%	---	---	
Dichlorodifluoromethane	22.7	---	1.00	ug/L	1	20.0	---	113	80 - 120%	---	---	
1,1-Dichloroethane	24.3	---	0.400	ug/L	1	20.0	---	122	80 - 120%	---	---	Q-56

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Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0783 - EPA 5030C						Water						
LCS (23D0783-BS1)	Prepared: 04/19/23 10:00					Analyzed: 04/19/23 23:19						
1,2-Dichloroethane (EDC)	22.3	---	0.400	ug/L	1	20.0	---	112	80 - 120%	---	---	
1,1-Dichloroethene	24.6	---	0.400	ug/L	1	20.0	---	123	80 - 120%	---	---	Q-56
cis-1,2-Dichloroethene	23.8	---	0.400	ug/L	1	20.0	---	119	80 - 120%	---	---	
trans-1,2-Dichloroethene	23.7	---	0.400	ug/L	1	20.0	---	118	80 - 120%	---	---	
1,2-Dichloropropane	25.5	---	0.500	ug/L	1	20.0	---	128	80 - 120%	---	---	Q-56
1,3-Dichloropropane	21.6	---	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
2,2-Dichloropropane	19.6	---	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
1,1-Dichloropropene	22.6	---	1.00	ug/L	1	20.0	---	113	80 - 120%	---	---	
cis-1,3-Dichloropropene	20.7	---	1.00	ug/L	1	20.0	---	103	80 - 120%	---	---	
trans-1,3-Dichloropropene	20.8	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
Ethylbenzene	20.3	---	0.500	ug/L	1	20.0	---	101	80 - 120%	---	---	
Hexachlorobutadiene	16.7	---	5.00	ug/L	1	20.0	---	84	80 - 120%	---	---	
2-Hexanone	43.0	---	10.0	ug/L	1	40.0	---	107	80 - 120%	---	---	
Isopropylbenzene	19.6	---	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
4-Isopropyltoluene	19.4	---	1.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
Methylene chloride	22.3	---	10.0	ug/L	1	20.0	---	112	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	45.1	---	10.0	ug/L	1	40.0	---	113	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	21.6	---	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
Naphthalene	17.9	---	2.00	ug/L	1	20.0	---	90	80 - 120%	---	---	
n-Propylbenzene	20.9	---	0.500	ug/L	1	20.0	---	105	80 - 120%	---	---	
Styrene	20.4	---	1.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	17.8	---	0.400	ug/L	1	20.0	---	89	80 - 120%	---	---	
1,1,2,2-Tetrachloroethane	21.6	---	0.500	ug/L	1	20.0	---	108	80 - 120%	---	---	
Tetrachloroethene (PCE)	18.8	---	0.400	ug/L	1	20.0	---	94	80 - 120%	---	---	
Toluene	20.2	---	1.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
1,2,3-Trichlorobenzene	17.2	---	2.00	ug/L	1	20.0	---	86	80 - 120%	---	---	
1,2,4-Trichlorobenzene	17.6	---	2.00	ug/L	1	20.0	---	88	80 - 120%	---	---	
1,1,1-Trichloroethane	20.5	---	0.400	ug/L	1	20.0	---	103	80 - 120%	---	---	
1,1,2-Trichloroethane	19.4	---	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
Trichloroethene (TCE)	21.6	---	0.400	ug/L	1	20.0	---	108	80 - 120%	---	---	
Trichlorofluoromethane	21.7	---	2.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
1,2,3-Trichloropropane	19.2	---	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
1,2,4-Trimethylbenzene	19.8	---	1.00	ug/L	1	20.0	---	99	80 - 120%	---	---	
1,3,5-Trimethylbenzene	20.1	---	1.00	ug/L	1	20.0	---	100	80 - 120%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0783 - EPA 5030C						Water						
LCS (23D0783-BS1)		Prepared: 04/19/23 10:00		Analyzed: 04/19/23 23:19								
Vinyl chloride	25.2	---	0.400	ug/L	1	20.0	---	126	80 - 120%	---	---	Q-56
m,p-Xylene	40.3	---	1.00	ug/L	1	40.0	---	101	80 - 120%	---	---	
o-Xylene	18.9	---	0.500	ug/L	1	20.0	---	94	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>105 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>80-120 %</i>		<i>"</i>						

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---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0859 - EPA 5030C						Water						
Blank (23D0859-BLK1)		Prepared: 04/21/23 09:00			Analyzed: 04/21/23 10:46							
EPA 8260D												
Acetone	ND	---	20.0	ug/L	1	---	---	---	---	---	---	---
Acrylonitrile	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
Bromobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Bromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromodichloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromoform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Bromomethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
n-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Carbon disulfide	ND	---	10.0	ug/L	1	---	---	---	---	---	---	---
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Chlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Chloroethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
Chloroform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Chloromethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Dibromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Dibromomethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0859 - EPA 5030C						Water						
Blank (23D0859-BLK1)	Prepared: 04/21/23 09:00					Analyzed: 04/21/23 10:46						
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 109 % Limits: 80-120 % Dilution: 1x

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0859 - EPA 5030C						Water						
Blank (23D0859-BLK1)		Prepared: 04/21/23 09:00		Analyzed: 04/21/23 10:46								
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 110 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (23D0859-BS1)						Prepared: 04/21/23 09:00		Analyzed: 04/21/23 09:51				
EPA 8260D												
Acetone	47.1	---	20.0	ug/L	1	40.0	---	118	80 - 120%	---	---	
Acrylonitrile	23.7	---	2.00	ug/L	1	20.0	---	119	80 - 120%	---	---	
Benzene	21.4	---	0.200	ug/L	1	20.0	---	107	80 - 120%	---	---	
Bromobenzene	18.1	---	0.500	ug/L	1	20.0	---	90	80 - 120%	---	---	
Bromochloromethane	30.8	---	1.00	ug/L	1	20.0	---	154	80 - 120%	---	---	Q-56
Bromodichloromethane	20.6	---	1.00	ug/L	1	20.0	---	103	80 - 120%	---	---	
Bromoform	17.7	---	1.00	ug/L	1	20.0	---	88	80 - 120%	---	---	
Bromomethane	29.3	---	5.00	ug/L	1	20.0	---	147	80 - 120%	---	---	Q-56
2-Butanone (MEK)	51.3	---	10.0	ug/L	1	40.0	---	128	80 - 120%	---	---	Q-56
n-Butylbenzene	21.6	---	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
sec-Butylbenzene	20.8	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
tert-Butylbenzene	17.4	---	1.00	ug/L	1	20.0	---	87	80 - 120%	---	---	
Carbon disulfide	24.3	---	10.0	ug/L	1	20.0	---	122	80 - 120%	---	---	Q-56
Carbon tetrachloride	19.1	---	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Chlorobenzene	19.3	---	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
Chloroethane	27.1	---	5.00	ug/L	1	20.0	---	135	80 - 120%	---	---	Q-56
Chloroform	20.8	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
Chloromethane	23.9	---	5.00	ug/L	1	20.0	---	120	80 - 120%	---	---	
2-Chlorotoluene	18.4	---	1.00	ug/L	1	20.0	---	92	80 - 120%	---	---	
4-Chlorotoluene	19.2	---	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
Dibromochloromethane	19.0	---	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
1,2-Dibromo-3-chloropropane	15.6	---	5.00	ug/L	1	20.0	---	78	80 - 120%	---	---	Q-55
1,2-Dibromoethane (EDB)	19.4	---	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
Dibromomethane	21.6	---	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
1,2-Dichlorobenzene	19.4	---	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
1,3-Dichlorobenzene	19.1	---	0.500	ug/L	1	20.0	---	96	80 - 120%	---	---	
1,4-Dichlorobenzene	19.0	---	0.500	ug/L	1	20.0	---	95	80 - 120%	---	---	
Dichlorodifluoromethane	21.6	---	1.00	ug/L	1	20.0	---	108	80 - 120%	---	---	
1,1-Dichloroethane	23.8	---	0.400	ug/L	1	20.0	---	119	80 - 120%	---	---	

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Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0859 - EPA 5030C						Water						
LCS (23D0859-BS1)	Prepared: 04/21/23 09:00					Analyzed: 04/21/23 09:51						
1,2-Dichloroethane (EDC)	21.1	---	0.400	ug/L	1	20.0	---	105	80 - 120%	---	---	
1,1-Dichloroethene	24.5	---	0.400	ug/L	1	20.0	---	122	80 - 120%	---	---	Q-56
cis-1,2-Dichloroethene	22.0	---	0.400	ug/L	1	20.0	---	110	80 - 120%	---	---	
trans-1,2-Dichloroethene	23.3	---	0.400	ug/L	1	20.0	---	116	80 - 120%	---	---	
1,2-Dichloropropane	24.3	---	0.500	ug/L	1	20.0	---	121	80 - 120%	---	---	Q-56
1,3-Dichloropropane	21.1	---	1.00	ug/L	1	20.0	---	105	80 - 120%	---	---	
2,2-Dichloropropane	21.3	---	1.00	ug/L	1	20.0	---	107	80 - 120%	---	---	
1,1-Dichloropropene	21.7	---	1.00	ug/L	1	20.0	---	109	80 - 120%	---	---	
cis-1,3-Dichloropropene	20.4	---	1.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
trans-1,3-Dichloropropene	20.7	---	1.00	ug/L	1	20.0	---	104	80 - 120%	---	---	
Ethylbenzene	19.4	---	0.500	ug/L	1	20.0	---	97	80 - 120%	---	---	
Hexachlorobutadiene	17.2	---	5.00	ug/L	1	20.0	---	86	80 - 120%	---	---	
2-Hexanone	43.5	---	10.0	ug/L	1	40.0	---	109	80 - 120%	---	---	
Isopropylbenzene	19.2	---	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
4-Isopropyltoluene	19.5	---	1.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
Methylene chloride	22.6	---	10.0	ug/L	1	20.0	---	113	80 - 120%	---	---	
4-Methyl-2-pentanone (MiBK)	46.2	---	10.0	ug/L	1	40.0	---	116	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	20.7	---	1.00	ug/L	1	20.0	---	103	80 - 120%	---	---	
Naphthalene	17.2	---	2.00	ug/L	1	20.0	---	86	80 - 120%	---	---	
n-Propylbenzene	20.5	---	0.500	ug/L	1	20.0	---	103	80 - 120%	---	---	
Styrene	19.6	---	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
1,1,1,2-Tetrachloroethane	17.6	---	0.400	ug/L	1	20.0	---	88	80 - 120%	---	---	
1,1,2,2-Tetrachloroethane	21.3	---	0.500	ug/L	1	20.0	---	106	80 - 120%	---	---	
Tetrachloroethene (PCE)	17.4	---	0.400	ug/L	1	20.0	---	87	80 - 120%	---	---	
Toluene	19.9	---	1.00	ug/L	1	20.0	---	100	80 - 120%	---	---	
1,2,3-Trichlorobenzene	16.9	---	2.00	ug/L	1	20.0	---	84	80 - 120%	---	---	
1,2,4-Trichlorobenzene	17.0	---	2.00	ug/L	1	20.0	---	85	80 - 120%	---	---	
1,1,1-Trichloroethane	19.3	---	0.400	ug/L	1	20.0	---	97	80 - 120%	---	---	
1,1,2-Trichloroethane	18.9	---	0.500	ug/L	1	20.0	---	94	80 - 120%	---	---	
Trichloroethene (TCE)	20.2	---	0.400	ug/L	1	20.0	---	101	80 - 120%	---	---	
Trichlorofluoromethane	20.1	---	2.00	ug/L	1	20.0	---	101	80 - 120%	---	---	
1,2,3-Trichloropropane	19.4	---	1.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
1,2,4-Trimethylbenzene	19.4	---	1.00	ug/L	1	20.0	---	97	80 - 120%	---	---	
1,3,5-Trimethylbenzene	19.7	---	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0859 - EPA 5030C						Water						
LCS (23D0859-BS1)		Prepared: 04/21/23 09:00		Analyzed: 04/21/23 09:51								
Vinyl chloride	25.9	---	0.400	ug/L	1	20.0	---	130	80 - 120%	---	---	Q-56
m,p-Xylene	39.2	---	1.00	ug/L	1	40.0	---	98	80 - 120%	---	---	
o-Xylene	18.1	---	0.500	ug/L	1	20.0	---	91	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 109 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>106 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>89 %</i>		<i>80-120 %</i>		<i>"</i>						

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Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Detection Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0650 - Total Solids (Dry Weight) - 2022							Soil					

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

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SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

<u>Prep: EPA 5030C</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0628</u>							
A3D1238-06	Water	NWTPH-Gx (MS)	04/14/23 10:15	04/17/23 11:16	5mL/5mL	5mL/5mL	1.00
A3D1238-07	Water	NWTPH-Gx (MS)	04/14/23 10:50	04/17/23 11:16	5mL/5mL	5mL/5mL	1.00
<u>Batch: 23D0695</u>							
A3D1238-09RE1	Water	NWTPH-Gx (MS)	04/14/23 11:20	04/18/23 12:09	5mL/5mL	5mL/5mL	1.00
<u>Batch: 23D0859</u>							
A3D1238-08RE3	Water	NWTPH-Gx (MS)	04/14/23 11:05	04/21/23 09:00	5mL/5mL	5mL/5mL	1.00

<u>Prep: EPA 5035A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0651</u>							
A3D1238-01	Soil	NWTPH-Gx (MS)	04/14/23 09:45	04/14/23 09:45	6.89g/5mL	5g/5mL	0.73
A3D1238-02	Soil	NWTPH-Gx (MS)	04/14/23 10:15	04/14/23 10:15	6.58g/5mL	5g/5mL	0.76
A3D1238-03	Soil	NWTPH-Gx (MS)	04/14/23 10:35	04/14/23 10:35	3.64g/5mL	5g/5mL	1.37
A3D1238-05	Soil	NWTPH-Gx (MS)	04/14/23 10:25	04/14/23 10:25	6g/5mL	5g/5mL	0.83
<u>Batch: 23D0701</u>							
A3D1238-04RE1	Soil	NWTPH-Gx (MS)	04/14/23 11:00	04/14/23 11:00	5.84g/5mL	5g/5mL	0.86

Volatile Organic Compounds by EPA 8260D

<u>Prep: EPA 5030C</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0628</u>							
A3D1238-06	Water	EPA 8260D	04/14/23 10:15	04/17/23 11:16	5mL/5mL	5mL/5mL	1.00
A3D1238-07	Water	EPA 8260D	04/14/23 10:50	04/17/23 11:16	5mL/5mL	5mL/5mL	1.00
A3D1238-08	Water	EPA 8260D	04/14/23 11:05	04/17/23 11:16	5mL/5mL	5mL/5mL	1.00
A3D1238-09	Water	EPA 8260D	04/14/23 11:20	04/17/23 11:16	5mL/5mL	5mL/5mL	1.00
<u>Batch: 23D0695</u>							
A3D1238-09RE1	Water	EPA 8260D	04/14/23 11:20	04/18/23 12:09	5mL/5mL	5mL/5mL	1.00
<u>Batch: 23D0859</u>							
A3D1238-08RE3	Water	EPA 8260D	04/14/23 11:05	04/21/23 09:00	5mL/5mL	5mL/5mL	1.00

<u>Prep: EPA 5035A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23D0651</u>							

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ORELAP ID: OR100062

Table with project details: Alpha Environmental, Project: Default- Env Dept., Project Number: 8975 SE 76th. Dr 23-53253, Project Manager: Jim Cooper, Report ID: A3D1238 - 04 25 23 1348

SAMPLE PREPARATION INFORMATION

Volatile Organic Compounds by EPA 8260D

Table with 8 columns: Lab Number, Matrix, Method, Sampled, Prepared, Sample Initial/Final, Default Initial/Final, RL Prep Factor. Includes Prep: EPA 5035A and Batch: 23D0701.

Percent Dry Weight

Table with 8 columns: Lab Number, Matrix, Method, Sampled, Prepared, Sample Initial/Final, Default Initial/Final, RL Prep Factor. Includes Prep: Total Solids (Dry Weight) - 2022 and Batch: 23D0650.

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Handwritten signature of Cameron O'Brien

Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Alpha Environmental
11080 SW Allen Blvd, Suite 100
Beaverton, OR 97005

Project: **Default- Env Dept.**
Project Number: **8975 SE 76th. Dr 23-53253**
Project Manager: **Jim Cooper**

Report ID:
A3D1238 - 04 25 23 1348

QUALIFIER DEFINITIONS

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

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- F-09 Results in the Gasoline Range are impacted by the overlap of a heavier fuel hydrocarbon product.
- F-12 The result for this hydrocarbon range is primarily due to the presence of individual analyte peaks in the quantitation range. No fuel pattern detected.
- ICV-01 Estimated Result. Initial Calibration Verification (ICV) failed high. There is no effect on non-detect results.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-05 Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-54 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54e Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +18%. The results are reported as Estimated Values.
- Q-54n Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +8%. The results are reported as Estimated Values.
- Q-54o Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -10%. The results are reported as Estimated Values.
- Q-54q Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -4%. The results are reported as Estimated Values.
- Q-55 Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56 Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-04 Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- V-01 Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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

Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

QC Source:

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

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

Miscellaneous Notes:

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

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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Cameron O'Brien, Project Manager



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Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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

Table with 3 columns: Client info (Alpha Environmental), Project info (Default- Env Dept), and Report ID (A3D1238 - 04 25 23 1348).

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation)
EPA ID: OR01039

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

Apex Laboratories

Table header with columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

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Handwritten signature of Cameron O'Brien

Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 8975 SE 76th. Dr 23-53253 Project Manager: Jim Cooper	Report ID: A3D1238 - 04 25 23 1348
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APEX LABS COOLER RECEIPT FORM

Client: Alpha Element WO#: A3D1238
 Project/Project #: 8975 SE 76th Dr. 23-53253

Delivery Info:
 Date/time received: 4/14/23 @ 1630 By: EST
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 4/14/23 @ 1655 By: EST
 Chain of Custody included? Yes No
 Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>1.8</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: _____
 Green dots applied to out of temperature samples? Yes No
 Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 4/14/23 @ 1705 By: RWP
 All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: no time/date on containers

COC/container discrepancies form initiated? Yes No
 Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA
 Comments: 313 ITS for sample B3

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA
 Comments: _____

Additional information:

Labeled by: RWP Witness: ZAM Cooler Inspected by: EST
 Form Y-003 R-00

Cameron O'Brien



APPENDIX B:

BORING LOGS



BOREHOLE LITHOLOGIC LOG

BORING # B1

PROJECT # 23-53253

SHEET 1 of 1

**PROJECT NAME: 8975 SE 76th Dr
Portland, Oregon**
LOGGED BY: M. Holmstrom
DRILLED BY: Cascade

START/END DATE: 04/14/2023
BORING METHOD: Direct-Push Sampler
BORING DEPTH: 15'
BORING DIAMETER: 2-3/8"

DEPTH (ft.)	TEMP. WELL DETAILS	SAMPLING INTERVAL <small>5 feet</small>	PID (ppm)	SAMPLE #	~% RECOVERY	APPARENT MOISTURE CONDITIONS	SOIL DESCRIPTION	
1	 GW @ 11.6'					Dry	Gravel	
					73		Damp	Dark Brown Silt
								Brown Silt
5						Damp		Gray/Brown Sandy Gravel
				<5	73		Wet	Brown Silty Sand w/ Gravel
								Bottom of boring at 15'
10								
15				<5	B1@15'			

Boreholes are continuously sampled at 5 ft. intervals. Samples are collected and field checked with PID meter and for soil discoloration/odors. Boring was abandoned with 3/8 Bentonite chips.

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN ONLY APPLIES AT THE SPECIFIC BORING LOCATION AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.



BOREHOLE LITHOLOGIC LOG

BORING # B2

PROJECT # 23-53253

SHEET 1 of 1

**PROJECT NAME: 8975 SE 76th Dr
Portland, Oregon
LOGGED BY: M. Holmstrom
DRILLED BY: Cascade**

**START/END DATE: 04/14/2023
BORING METHOD: Direct-Push Sampler
BORING DEPTH: 15'
BORING DIAMETER: 2-3/8"**

DEPTH (ft.)	TEMP. WELL DETAILS	SAMPLING INTERVAL <small>5 feet</small>	PID (ppm)	SAMPLE #	~% RECOVERY	APPARENT MOISTURE CONDITIONS	SOIL DESCRIPTION
1							<p>Gravel</p> <p>Brown Silt</p> <p>Brown Silt w/ Gravel</p> <p>Brown Silty Sand w/ Gravel</p> <p style="text-align: right;">Bottom of boring at 15'</p> <p style="font-size: small; margin-top: 20px;">Boreholes are continuously sampled at 5 ft. intervals. Samples are collected and field checked with PID meter and for soil discoloration/odors. <i>Boring was abandoned with 3/8 Bentonite chips.</i></p>
					47	Dry	
5						Damp	
					48	Moist	
10			<5			Wet	
	 GW @ 11.23'				52		
15			<5	B2@15'			

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN ONLY APPLIES AT THE SPECIFIC BORING LOCATION AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.



BOREHOLE LITHOLOGIC LOG

BORING # B3

PROJECT # 23-53253

SHEET 1 of 1

**PROJECT NAME: 8975 SE 76th Dr
Portland, Oregon
LOGGED BY: M. Holmstrom
DRILLED BY: Cascade**

**START/END DATE: 04/14/2023
BORING METHOD: Direct-Push Sampler
BORING DEPTH: 15'
BORING DIAMETER: 2-3/8"**

DEPTH (ft.)	TEMP. WELL DETAILS	SAMPLING INTERVAL <small>5 feet</small>	PID (ppm)	SAMPLE #	~% RECOVERY	APPARENT MOISTURE CONDITIONS	SOIL DESCRIPTION	
1	 GW @ 10.80'						<p>Gravel w/ Silt</p> <p>Dark brown Silt</p> <p>Brown/Gray Silt (Odor) (Organics?)</p> <p>Brown Sandy Gravel</p> <p>Brown Sandy Gravel</p> <p>Bottom of boring at 15'</p> <p><small>Boreholes are continuously sampled at 5 ft. intervals. Samples are collected and field checked with PID meter and for soil discoloration/odors. Boring was abandoned with 3/8 Bentonite chips.</small></p>	
			█	13	B3@4'	58		Dry
								Damp
5								Moist
10								Wet
15			█	24	B3@15'	100		

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN ONLY APPLIES AT THE SPECIFIC BORING LOCATION AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.



BOREHOLE LITHOLOGIC LOG

BORING # B4

PROJECT # 23-53253

SHEET 1 of 1

**PROJECT NAME: 8975 SE 76th Dr
Portland, Oregon
LOGGED BY: M. Holmstrom
DRILLED BY: Cascade**

**START/END DATE: 04/14/2023
BORING METHOD: Direct-Push Sampler
BORING DEPTH: 15'
BORING DIAMETER: 2-3/8"**

DEPTH (ft.)	TEMP. WELL DETAILS	SAMPLING INTERVAL <small>5 feet</small>	PID (ppm)	SAMPLE #	~% RECOVERY	APPARENT MOISTURE CONDITIONS	SOIL DESCRIPTION
1							<p>Brown/Gray Gravel w/ Silt</p> <p>Brown Sandy Gravel</p> <p>Brown Sandy Gravel</p> <p>Brown Sandy Gravel</p> <p>Bottom of boring at 15'</p> <p><small>Boreholes are continuously sampled at 5 ft. intervals. Samples are collected and field checked with PID meter and for soil discoloration/odors. Boring was abandoned with 3/8 Bentonite chips.</small></p>
					27	Dry	
						Damp	
5							
					53	Very Moist	
10	 GW @ 10.71'					Wet	
					73		
15			<5	B4@15'			
						Bottom of boring at 15'	

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN ONLY APPLIES AT THE SPECIFIC BORING LOCATION AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.



APPENDIX C:

ECOLOGICAL BASIC SITE INFORMATION CHECKLIST

General Site Information
ECSI File No. or LUST File No.:
Site Name:
Site Location (address, city, and/or county):
Latitude/Longitude or other location documentation for site:
Current and Historical Site Use (gas station, dry cleaner, jet hangar, etc.)¹:
Zoning:
Site² Features:
Chemicals of Interest³:

¹ Include contaminant management, treatment, storage or disposal and areas where a release may have occurred. Historical sources should be identified using sources of information which help in identifying current or past uses or occupants of a site including aerial photographs, fire insurance maps, property tax files, recorded land title records, United States Geological Survey (USGS) 7.5 minute topographic maps, local street directories, building department records, zoning or land use records. Any previous site assessments, environmental assessments or studies should be summarized

² Facility or Site (OAR 340-122-0115(26)) means any building, structure, installation, equipment, pipe or pipeline including any pipe into a sewer or publicly owned treatment works, well, pit, pond, lagoon, impoundment, ditch, landfill, storage container, above ground tank, underground storage tank, motor vehicle, rolling stock, aircraft, or any site or area where a hazardous substance has been deposited, stored, disposed of, or placed, or otherwise come to be located and where a release has occurred or where there is a threat of a release, but does not include any consumer product in consumer use or any vessel.

³ A COI list should include chemicals that are detected or are suspected to be present based on historical and current operations. For Stage 1, the site-specific history of hazardous substance uses and releases is usually the source of potential chemical information. Identify hazardous substances that have the potential to bioaccumulate in Section C2 of Attachment 1.

Site Conditions – Provide Approximate Areas (acreage or square feet)

These habitats may occur in a range of natural and protected areas, including parks and green space found within urban areas. More information and habitat classification can be found at: <https://oregonexplorer.info/content/classification-wildlife-habitats>

Site Adjacent to Site

_____ **Terrestrial Open Habitat / Grasslands:** Dominated by short to medium-tall grasses, low to medium shrubs, or bare soil.

_____ **Forest or Woodland Habitats:** Woodlands (maple, alder, aspen), conifer forest (Douglas fir, hemlock, cedar, spruce), mixed-woodland, juniper, pine (ponderosa, lodgepole).

_____ **Wetland⁴:** May be either tidal or non-tidal wetlands with emergent herbaceous plants.

_____ **Riparian Zone:** Patches or linear strips of land adjacent to waterbodies (rivers, streams, waterbodies), or on nearby floodplains and terraces. May be impacted by periodic riverine flooding or perennial flowing water. May or may not also contain wetlands.

_____ **Aquatic Open Water:** Ponds, lakes, reservoirs, rivers, creeks, streams, bays estuaries, and nearshore marine and intertidal.

_____ **Impermeable Surface:** Pavement, structures.

Documentation

- Aerial Site Vicinity Map(s) identifying zoning and Site features. Include topographic map.
- Summarize known or potential contaminated soil, groundwater, migration pathways.
- Figure illustrating source/release areas, sample locations, estimated areas of contamination, and surface features such as pavement, stormwater catch basins/drainage system including outfalls, dry wells or stormwater swales.
- Aerial Map showing habitat types described above both within and adjacent to the Site by at least 1/4 mile from Site boundary. Definitions and tools⁵ for identifying wetlands include:

⁴ Covered Under Oregon Statewide Wetlands Inventory (ORS 196.674)

<https://www.oregon.gov/dsl/WW/Pages/SWI.aspx>

⁵ Information shown on the Local Wetland Inventory maps is for planning purposes only, as wetland information is subject to change. There may be unmapped wetland and waters subject to regulation and all wetlands and waters boundary mapping is approximate. In all cases, actual field conditions determine the presence, absence and boundaries of wetlands and waters.

https://www.oregon.gov/dsl/WW/Pages/Inventories.aspx http://tools.oregonexplorer.info/oe_map_viewer_2_0/viewer.html?Viewer=orwap National Wetlands Inventory: https://www.fws.gov/wetlands/Data/Mapper.html	
Checklist Completed By:  (name and title/expertise)	Date: