

SUPPLEMENTAL ENVIRONMENTAL SITE INVESTIGATION

Property Identification:

LUST #26-90-0001 BINGHAM CONSTRUCTION 3939 NW ST HELENS ROAD PORTLAND, OREGON 97210

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1.0 INTRODUCTION

On behalf of Jay Poizer, Alpha Environmental Services, Inc (Alpha) has prepared this Supplemental Environmental Site Assessment Report to present the results of the recent site testing. The purpose of the investigation was to fully delineate remaining soil contamination, assess groundwater conditions migrating in the downgradient direction toward St. Helens Road and determine if a vapor intrusion condition exists in the building.

The August 2024 investigation included seven soil borings and indicated gasoline detections in several borings with a maximum detection of 4,040 parts per million (ppm). The full extent of contamination was delineated in all directions except to the north. Groundwater impacts are unknown at this time. Additional assessment was recommended.

The December 2024 investigation included 4 borings (2 soil and 2 groundwater) and indicated gasoline detections in several borings with a maximum detection of 4,370 parts per million (ppm). The remaining soil delineation was completed to the north. Groundwater sampling in the downgradient direction indicates potential groundwater impacts are restricted to the site. Sub-slab soil vapor testing indicated Total Petroleum Hydrocarbons (TPH) slightly exceeded the occupation risk RBCs. Additional soil vapor sampling was recommended.

1.1 Site Description

The Property consists of one Tax Lot R315807 located in Township 1 North, Range 1 East, Section 19, Willamette Meridian. The parcels have a total of 1.19-acres. The roughly central part of the Property is occupied by the building, surrounded by storage and parking areas.

The vicinity of the Property can generally be described as industrial. Current usage of the adjoining properties includes: north – Overhead Door Company; south – Bridge City Steel; east – NW St Helens Road with Western Group (metal manufacturer) and Shell Products Loading Terminal beyond; and west – Forest Park.

1.2 Current Zoning and Future Land Use

The zoning is Heavy Industrial (IH) by the City of Portland. Currently the property is occupied by the Tahoe Corporation owned by Bing Bingham. The future use of the property is anticipated to remain industrial use.

1.3 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 the USGS Depth to Groundwater Interactive Map of Portland, static groundwater onsite is estimated to be located approximately 45 feet below surface grade (bsg), although some monitoring wells in the area indicate it may be as shallow as 10 to 15 feet.

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 topography and site observations, groundwater is anticipated to flow to the northeast.

The nearest major surface water in the vicinity of the Property is the Willamette River located approximately 0.51 miles northeast of the site.



2.0 BENEFICIAL LAND AND WATER USE DETERMINATIONS

2.1 Land Use

The subject property is zoned Heavy Industrial (IH) by the City of Portland. The zoning permits industrial uses. Residential use is not considered a likely future use for this property. Surrounding properties do not include residential uses and the residential receptor scenario pathway is deemed incomplete.

2.2 Groundwater Use

A search of the Oregon Water Resources Department (OWRD) database was conducted. No industrial water wells were identified within 0.4 miles of the subject property and no residential water wells were identified within 1.0 mile of the subject property.

The City of Portland supplies potable water to the property and nearby businesses. There is no onsite groundwater use.

Based on the information provided, there is no known current or likely future beneficial use of shallow groundwater within 0.4 miles of the site that might be impacted by site-related contamination.

2.3 Surface Water Use

The closest surface water to the site is the Willamette River located approximately 0.5 miles northeast of the property. The subject property partially paved and covered by the site buildings. For paved areas, stormwater runoff either drains to unpaved areas or drains to the adjoining city streets. In the non-paved areas of the property, water infiltrates naturally into the subsurface.



3.0 FIELD INVESTIGATION AND SAMPLING PROCEDURES

3.1 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 drilling.

3.2 Boring Location Rationale

The boring locations were chosen based on the previous sampling by GEM and in accordance with locations approved by the DEQ.

3.3 Drilling and Sampling Activities

Field investigation and drilling activities were conducted under the supervision of Mr. Matt Holmstrom, staff geologist and UST Supervisor for Alpha. Work was reviewed by Jim Cooper, R.G. senior geologist for Alpha. The subsurface sampling consisted of the advancement of seven borings in August 2024 and four borings in December 2024, both advanced by Cascade Drilling using a track-mounted direct-push drill rig.

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 by pressure washing.

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. 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 using new disposable nitrile gloves. A new set of gloves was donned after any sample handling and between each interval of sample collected. Soil samples during the August 2024 sampling event were field screened with headspace vapor screening for volatile organic compounds using a hand-held photoionization detection (PID) meter. Representative samples were placed in Ziplock storage bags and left to equalize for approximately 5 to 10 minutes before readings were taken by inserting the tip of the meter into the bag.

Temporary 1-inch diameter PVC groundwater wells were installed by Cascade using expendable drill points (i.e. a solid pointed drill tip attached to the drilling stem that is advanced down the hole and left in place when the drilling rods are retracted) to reach the depth of groundwater. The PVC well casing is lowered through the annular space inside the drilling rods and then the drill rods are removed. The temporary wells were slotted between 10 to 20 feet. No soil samples were collected from these borings.

The soil and groundwater samples were placed in laboratory-provided glass jars 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 initial analyzed by test method NWTPH-Gx (quantifies gasoline range petroleum hydrocarbons) and EPA Test Method 8260 RBDM VOCs. Samples from the August sampling event were also analyzed by NWTPH-Dx (quantifies diesel and oil range petroleum hydrocarbons).

Borings were abandoned in accordance with Oregon Department of Water Resources (WRD) requirements by filling with bentonite chips. The surface was repaired to closely match the existing surface.



3.4 Soil-Gas Sampling

The soil-gas samples were collected from temporary test points using Section 3.2.1 of DEQs *Guidance for Assessing and Remediating Vapor Intrusion in Buildings*, 2010. EPA Method TO-15 was used to analyze the soil-gas samples. A total of three soil-gas samples were collected on the Property.

A roto-hammer was utilized to drill to just below the concrete slab. A dedicated, single-use gas vapor probe (GVP) point was inserted into the hole and sealed using a sand pack at the base and hydrated bentonite at the surface. The seal and borehole were given approximately 30 minutes of equilibration time before the purging process was performed. The purging process was performed using a hand-operated calibrated syringe. A total of approximately three purge volumes of air were slowly purged out of the system.

The 1-liter Summa canister was then connected to the sampling train using disposable Teflon® tubing. A leak check was performed using a vacuum pump to determine if leaks were present in the sampling train. Isopropyl alcohol was applied to sampling train connection areas and floor seal during the sample collection.

The Summa canister regulators were set by the laboratory to 200 milliliters per minute (ml/min) and were opened for a duration of approximately 5 minutes.

During subsequent laboratory analysis, each sub-slab sample was additionally analyzed for 2-propanol. According to Section H.3.3.5 Liquid Tracers, NJDEP, 2018, a 0.1% leak of ambient air into the sample canister would conservatively equate to a detection of 100,000 μ g/m3 of 2-propanol. Laboratory analysis of the samples collected from SS1, SS2, SS3 SS3-2, SS4, and SS5 reported concentrations of 1,840 μ g/m3, 693 μ g/m3, 2,950 μ g/m3, 133 μ g/m3, 20.6 μ g/m3 and ND, respectively. These reported tracer gas concentrations are well below the recommended 100,000 μ g/m3 threshold for a 0.1% leak.

3.5 Field Investigation Summary

Sampling Event	Date Scope		Significant Findings
			ug/l
1	9/6/24	7 soil borings	Maximum gasoline detection in soil of 4,040 ppm.
2	12/23/24	2 soil borings 2 groundwater borings 3 sub-slab soil vapor samples	Maximum gasoline detection in soil of 4,370 ppm. No detection in groundwater samples. Soil vapors for gasoline in SS1 exceeded the RBCs.
3	3/19/25	3 sub-slab soil vapor samples	Soil vapors for gasoline and VOCs in all samples below the RBCs.



4.0 QUALITY ASSURANCE & QUALITY CONTROL

For the project, Alpha comply with the DEQ's Quality Assurance Project Plan (QAPP) for Preliminary Assessments, DEQ05-LQ-069-QAPP, Version 2.2 dated August 14, 2012 or the Underground Storage Tanks Programs, DEQ02-LQ-0002-QAPP, Version 3.1, dated June 20, 2016.

4.1 Field Equipment & Decontamination

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

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.

4.2 Sample Collection

Soil 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.

Groundwater samples from the investigation were collected directly from temporary PVC wells using a low flow peristaltic pump (approximately 50 to 100 ml/min) and disposable polyethylene tubing. Prior to sampling, each well was purged of approximately 3 volumes of water and allowed to stabilize foe approximately 30 minutes. Groundwater samples were collected from approximately 15 feet. The groundwater samples were dispensed directly into appropriate laboratory provided containers.

4.3 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.

4.4 Field Duplicates

Field duplicates were collected at a rate of 1 per 20 analytical samples for each matrix sampled, except for soil vapor (not enough canisters were available). The field duplicate for the soil sample was collected from an area of obvious impacts. For non-VOCs, the sample was homogenized and then the field investigation and duplicate sample alternately collected. For VOCs, two separate field plugs were taken side by side from the undisturbed sample, with as little time between samples as possible. The duplicate sample was collected from Boring D8@17'.

The field duplicate for the groundwater sample was collected from the temporary monitoring well (Boring D9) after the collection of the initial sample.

4.5 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.

Soil-gas sample canisters were labeled with the project name and number, the time of sampling, sampler's initials, sample designation and date. The quality control procedures for the assessment also included the use of nitrile gloves during assembly and disassembly. The regulator flow rates for the Summa canisters are set by the laboratory before shipping and re-checked upon return. Field notes were used to record the test start and end times, flow rates, and other pertinent field information.

Samples were handled under chain-of-custody protocol in which the custody form was signed and dated by the Alpha personnel. Upon receipt of the samples, personnel at Pace Laboratories inspected and recorded the condition of the sample canisters and signed the custody form. A copy of the completed chain-of-custody form is included at the end of the laboratory analytical reports (Appendix A).



5.0 SAMPLE ANALYTICAL RESULTS

5.1 Soil Findings

Petroleum Results – August 6, 2024

The NWTPH-Gx analytical results indicate that gasoline was detected in Borings D1, D2, D3, D5 and D6. The NWTPH-Dx analytical results indicate that diesel was only detected in Boring D2 and D3; however, the laboratory determined the detection was likely from overlap of the Gasoline Range product.

The concentrations of gasoline in several samples exceed the Leaching to Groundwater Pathway.

Petroleum Results – December 23, 2024

The NWTPH-Gx analytical results indicate that gasoline was detected in Boring D8. Soil samples were not collected from Boring D9 or D10 because these were temporary groundwater sample locations installed with a expendable drill tip. Diesel and oil were not analyzed because previous testing indicated only gasoline range hydrocarbons are present.

The concentrations of gasoline in the D8 samples exceeds the Leaching to Groundwater Pathway.

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 - Petroleum

D			Sample	Petroleum				
Boring No.	Date	Location of Sample	Depth in Feet	Gasoline	Diesel	Heavy Oil		
				mg/kg	mg/kg	mg/kg		
D1	8/6/24	East end of tank pit based on	12	11.4	ND <24.1	ND <48.2		
Di	0/0/24	GEM map	15	ND <8.08	ND <25.7	ND <51.4		
		East center of tank pit based on	12	203	25.3	ND <48.8		
D2	8/6/24	GEM map	15	39.1	ND <25.9	ND <51.8		
D3	8/6/24	East end of tank pit based on	12	4 <mark>,040</mark>	187	ND <48.2		
DS	8/0/24	field observations	15	13.9	ND <25.1	ND <50.3		
D4	8/6/24	East of tank pit based on GEM	12	ND <6.97	ND <23.2	ND <46.4		
D4	0/0/24	map	15	ND <7.98	ND <24.4	ND <48.7		
D5	8/6/24	Center of tank pit based on field observations	12	172	ND <23.6	ND <47.1		
D3	0/0/24		15	33.0	ND <25.7	ND <51.4		
D.C	8/6/24	North side of tank pit based on field observations	12	2,360	114	ND <48.4		
D6	0/0/24		15	1,200	ND <23.2	ND <51.3		
D7	8/6/24	South side of tank pit based on field observations	12	ND <6.13	ND <23.1	ND <46.1		
		North of southern tank pit	12	4,370	-	-		
D0	12/23/24		15	2,410	-	-		
D8			17	932	-	-		
			20	142	-	-		
D9	12/23/24	Eastern portion of site – GW only, no soil samples collected	-	-	-	-		
D10	12/23/24	Eastern portion of site – GW only, no soil samples collected	-	-	-	-		
		North of southern tank pit and	12	ND				
D11	12/23/24	at the west end of northern tank	15	ND	-	-		
DEC BY:		pit	20	ND	-	-		
DEQ Risk-B	ased Concent	rations	ı					
Leaching to 0	Groundwater (Occupational Use)		130	>Max	>Max		
Dermal Conta	act (Constructi	ion Worker)		9,700	4,000	11,000		
Dermal Conta	act (Excavatio	n Worker)		>Max	>Max	>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)

203 = Exceeds Leaching to Groundwater RBC



VOC Results - August 6, 2024

The VOC analytical results for the two highest gasoline detections were competed on Boring D3@12' and D6@12'. The results indicate that several VOCs were detected in the sample above the laboratory reporting limits.

In some or all of the samples, the laboratory reporting limits exceeded the leaching to groundwater RBC for benzene, MTBE, EDB and EDC; however, this is not expected to effect overall data interpretation as groundwater is not used at the site for drinking water purposes and the Vapor Intrusion to Building from groundwater risk pathway was checked with sub-slab vapor sampling.

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

VOC Results – December 23, 2024

All soil samples form the December sampling event were analyzed for VOCs. The VOC analytical results for Boring D8 are various depths indicate that several VOCs were detected in the sample above the laboratory reporting limits.

As with the previous sampling, in some or all of the samples, the laboratory reporting limits exceeded the leaching to groundwater RBC for benzene, MTBE, EDB and EDC. No overall risk is expected from the Leaching to Groundwater Pathway.

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



 $Table\ 1A-Soil\ Sample\ Analytical\ Results-RBDM\ VOCs$

		RBDM VOCs									
Boring Number and Depth	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	EDB	EDC	Isopropylbenzene	1,2,4- Trimathybenzene	1,3,5. Trimethybenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D3@12'	ND <0.579	<i>ND</i> <2.89	143	4.72	ND <2.89	22.2	ND <2.89	ND <1.45	17.6	ND <2.89	ND <2.89
D6@12'	ND <0.146	ND <0.732	5.14	ND <1.10	ND <0.732	ND <1.46	ND <0.732	ND <0.366	ND <0.732	ND <0.732	ND <0.732
D8@12'	ND <0.5698	ND <3.49	176	ND <5.23	ND <3.49	24.0	ND <3.49	ND <1.74	21.5	71.8	7.26
D8@15'	ND <0.339	ND <1.70	<mark>71.8</mark>	108	ND <1.70	8.38	ND <1.70	ND <0.848	6.72	<mark>96.6</mark>	28.0
D8@17'	ND <0.0727	ND <0.363	24.5	40.5	ND <0.363	3.46	ND <0.363	ND <0.182	2.64	35.3	10.3
D8@20'	ND <0.0163	ND <0.0814	<mark>4.76</mark>	1.43	ND <0.0814	0.568	ND <0.0814	ND <0.0407	0.587	3.73	0.120
D11@12'	ND <0.0188	ND <0.0938	ND <0.0469	ND <0.141	ND <0.938	ND <0.188	ND <0.0938	ND <0.0469	ND <0.0938	ND <0.0938	ND <0.0938
D11@15'	ND <0.210	ND <0.105	ND <0.0526	ND <0.158	ND <0.105	ND <0.210	ND <0.105	ND <0.0526	ND <0.105	ND <0.105	ND <0.105
D11@20'	ND <0.0171	ND <0.0857	ND <0.0429	ND <0.129	ND <0.0857	ND <0.171	ND <0.0857	ND <0.0429	ND <0.0857	ND <0.0857	ND <0.0857
DEQ Risk-Based Screening Levels											
Leaching to Groundwater	0.10	490	0.90	100	0.54	0.34	0.00056	0.013	>Csat	48	53
Direct Contact (Const.Worker)	380	28,000	1,700	20,000	12,000	580	9.0	200	>Csat	2,900	2,900
Direct Contact (Excv.Worker)	11,000	770k	48,000	560k	320k	16,000	250	5,600	>Csat	81,000	81,000

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

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

^{143 =} Exceeds Leaching to Groundwater RBC



5.2 Groundwater Findings

Petroleum Results – December 23, 2024

The groundwater analytical results indicate that gasoline or VOCs were not detected in Boring D9 or D10. Diesel and oil were not analyzed because previous testing indicated only gasoline range hydrocarbons are present.

Table 2 – GW Sample Analytical Results – Petroleum

				Petroleum			
Boring No.	Date	Location of Sample	Boring Depth in Feet	Gasoline			
				ug/l			
D9	12/23/24	Eastern portion of site – GW only, no soil samples collected	20	ND <100			
D10	12/23/24	Eastern portion of site – GW only, no soil samples collected	20	ND <100			
DEQ Risk-Based Concentrations							
Vapor Intrusio	on into Buildii	ngs (Occupational Use)		520			
Groundwater	in Excavation			14,000			

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 or parts per billion (ppb)



Table 2A – Groundwater Sample Analytical Results – RBDM VOCs

		RBDM VOCs									
Boring Number	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	EDB	EDC	Isopropylbenzene	1,2,4- Trimathybenzene	1,3,5- Trimethybenzene
	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
D9	ND <0.200	ND <1.00	ND <0.500	ND <1.50	ND <1.00	ND <5.00	ND <0.500	ND <0.400	ND <1.00	ND <1.00	ND <1.00
D10	ND <0.200	ND <1.00	ND <0.500	ND <1.50	ND <1.00	ND <5.00	ND <0.500	ND <0.400	ND <1.00	ND <1.00	ND <1.00
DEQ Risk-Base	d Screening	Levels									
Volatilization to Outdoor Air	14,000	>S	>S	>S	1,500,0 00	16,000	790	9.000	>S	>S	>S
Vapor Intrusion into Buildings	12	150,000	31	3,300	3,200	50	1.5	18	9,100	2,400	1,700
Groundwater in Excavation	1,800	220,000	4,500	560k	63,000	500	27	630	51,000	81,000	81,000

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

>S = This groundwater RBC exceeds the solubility limit.

ug/l = microgram per liter or parts per billion (ppb



5.2 Soil-Gas Findings

December 23,2024

The laboratory analytical results indicate that several VOCs and Total Petroleum Hydrocarbons (TPH) were detected in samples. The detected concentrations were compared to the DEQ RBCs and the concentrations of Total Petroleum Hydrocarbons (TPH) in Sample SS1 exceed the Vapor Intrusion into Buildings RBCs for occupational receptors. A summary of the results for the soil vapor analysis is presented in Table 3. Only analytes that had a detection and have a corresponding RBC, are in the table below. The complete laboratory analytical report is included as Appendix A.

Table 3 – Soil Vapor Sample Analytical Results

	SS1	SS2	SS3	RBC _{sv} (Occupational)
Depth bsg (feet)	Sub-Slab	Sub-Slab	Sub-Slab	-
	Result μg/m3	Result μg/m3	Result μg/m3	μg/m3
Benzene	17.0	2.26	0.76	52
Cyclohexane	272	4.34	ND	880,000
Ethylbenzene	49.9	3.56	1.79	160
Dichlorofluoromethane	2.77	2.61	2.74	15,000
n-Hexane	32,300	367	6.49	100,000
Methyl Ethyl Ketone (2-Butanone)	425	19.0	13.2	730,000
2-Propanol	1,840	693	2,950	Leak Detection Compound
Toluene	22.9	4.48	4.52	730,000
Tetrachloroethylene	ND	ND	1.09	1,600
1,2,4-Trimethybenzene	15.6	5.89	8.69	8,800
1,3,5-Trimethybenzene	5.50	2.04	3.09	8,800
Xylenes	250	20.2	14.0	15,000
ТРН	48,700	2,470	ND	40,000

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

μg/m3 = microgram per meter cubed

48,700 = Exceeds Vapor Inrusion into Building RBC

RBCsv = Soil-Gas risk-based concentration for Vapor Intrusion into Buildings - Occupational & Residential Pathway. Only anyltes with RBCs are listed above, for a complete list, see Appendix B.



March 19. 2025

Because there was an exceedance in one the soil vapor samples (SS1), on March 19, 2025, three additional sub-slab vapor samples were collected. For the March sampling event, one of the sample numbers (SS3) was accidentally duplicated. The sample named SS3-2 in this report, from the March sampling event, is near the location of SS1 in the sampling event from December 2024. The laboratory report identifies it as SS3 (Lab Report L1812794 -03)

The laboratory analytical results indicate that several VOCs and TPH were detected in samples. The detected concentrations were compared to the DEQ RBCs, and concentrations did not exceed the RBC for the Vapor Intrusion into Buildings RBCs for occupational receptors. A summary of the results for the soil vapor analysis is presented in Table 4. The complete laboratory analytical report is included as Appendix A.

Table 4 – Soil Vapor Sample Analytical Results

	SS3-2	SS4	SS5	RBC _{SV} (Occupational)
Depth bsg (feet)	Sub-Slab	Sub-Slab	Sub-Slab	-
	Result μg/m3	Result μg/m3	Result μg/m3	μg/m3
Benzene	3.83	4.06	4.25	52
Cyclohexane	2.78	1.17	3.89	880,000
Ethylbenzene	7.41	5.81	9.02	160
Dichlorofluoromethane	1.62	1.48	1.48	15,000
n-Hexane	10.2	8.88	3.77	100,000
Methyl Ethyl Ketone (2-Butanone)	45.4	ND	21.6	730,000
2-Propanol	133	20.6	ND	Leak Detection Compound
Toluene	29.9	20.9	38.4	730,000
1,2,4-Trimethybenzene	6.72	5.30	8.54	8,800
1,3,5-Trimethybenzene	2.33	2.01	3.00	8,800
Xylenes	41.8	31.7	50.3	15,000
ТРН	504	390	425	40,000

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

RBCsv = Soil-Gas risk-based concentration for Vapor Intrusion into Buildings - Occupational & Residential Pathway. Only anyltes with RBCs are listed above, for a complete list, see Appendix B.



6.0 RISK-BASED EVALUATIONS

6.1 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.

6.2 Expected Future Use of the Site

The future use of the subject property, currently zoned heavy industrial, and based on site uses in the area, is not likely to change for the foreseeable future.

6.3 Conceptual Site Model Summary

The Conceptual Site Model (CSM) summary is designed to provide a depiction of relevant site features and the surface/subsurface conditions. The table helps to define the transport mechanisms, exposure pathways and the risk to potential receptors.

TABLE 5: - Conceptual Site Model Risk Table

Pathway	Receptor	Applicable RBC?	Basis for selection/exclusion						
SOURCE: GASOLINE TAI	SOURCE: GASOLINE TANK; CURRENT AND FUTURE LAND USE: INDUSTRIAL; IMPACTED MEDIUM: SOIL								
	Residential	No							
Ingestion, dermal	Occupational	Yes	Pathway is complete; however, contaminates appear to be greater than 3'						
contact, and inhalation	Construction worker	Yes	Pathway is complete; however, contaminates do not exceed the RBCs						
	Excavation worker	Yes	Pathway is complete; however, contaminates do not exceed the RBCs						
Volitization to	Residential	No	Pathway is complete; however, based on						
Outdoor Air	Occupational	Yes	the sub-slab vapor samples results and outdoor risk is unlikely to exist.						
Vapor intrusion into	Residential	No							
buildings	Occupational	Yes	Pathway is complete and soil vapors do not exceed the RBCs.						
Leaching to	Residential	No	No impacts were detected in the groundwater samples.						
groundwater	Occupational	No	See Note 1.						

Notes:

^{1.} City water is provided. Deep groundwater wells or surface water from Bull Run are currently used for drinking water in Portland.



6.4 Contaminant Concentrations

As noted above, the contaminants identified at the site are petroleum products as gasoline and related VOC constituents. The previous Tables are a summary of soils collected by Alpha during the sampling event from August 2024, December 2024 and March 2025.

6.5 Human Health Risk

The following Contaminants of Potential Concern (COPCs) were identified for the applicable soil exposure pathways.

Soil:

Soil ingestion, dermal contact, and inhalation: Petroleum was detected, but at concentrations below applicable screening levels for occupational receptors and construction and excavation workers.

Visual observations in the upper 3 feet of soil did not indicate petroleum impacts from this depth interval. Field observations and soil results are consistent with a below ground tank release. Based on these factors, the occupational direct contact risk does not appear to be applicable.

Groundwater:

Groundwater samples indicate that groundwater has not been significantly impacted in the downgradient and there does not appear to be a vapor intrusion risk from groundwater. The drinking water is supplied by the municipal system.

Volatilization to Outdoor Air:

The Volitization to Outdoor Air Pathway is complete; however, based on the relatively low sub-slab vapor samples results and outdoor risk is unlikely to exist.

Vapor Intrusion into Buildings:

Based on the initial testing, one sample (SS1) exceeded the RBCs for petroleum hydrocarbons. The area was retested along with two additional spots along the southeast part of the building, and all results are well below the RBCs. Based on the most recent testing, a vapor intrusion condition is not likely to exist.

6.6 Ecological Receptors

The nearest major surface water in the vicinity of the Property is the Willamette River located 0.5 miles from the property. Based on the intervening distance and site uses surrounding the property no ecological risk is anticipated.

Some wildlife from adjacent Forest Park to the west, could potentially enter the site. The property is surrounded by a chain link fence, so this would be limited. There is not anticipated risk to potential wildfire as contamination is not present at the surface.



7.0 FINDINGS, CONCLUSIONS, RISK EVALUATION AND RECOMMENDATIONS

Alpha has conducted the Site Investigation for the Property located at 3939 NW St Helens Road, 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.

7.1 Findings

GEM Report Review and Field Observation Findings

- All boring locations performed by GEM were field located by Alpha, except for Boring B2.
- The location of the southern tank pit shown on the GEM map (Figure 2 Site Plan) does not appear to correspond to field markings painted on the ground during the geophysical survey. Borings logs were reviewed to help interpret if Boring B2 was inside the tank pit. The log shows there was no recovery between 4 to 8 feet and fill material below, indicating it may have been. As mentioned above, Alpha was unable to field locate Boring B2.
- Gasoline only detected from Boring B2 at the east end of the southern suspected tank pit location.
- Low VOCs detected in Boring B2.

Summary of Alpha August 2024 Findings

- Gasoline was detected in Borings D1, D2, D3, D5 and D6.
- The highest detected concentration of gasoline was in Boring D3@12' (4,040 ppm).
- Concentrations appear to rapidly attenuate in all borings except for Boring D6 (2,360 ppm at 12' and 1,200 ppm at 15').
- Visual observations in the upper 3 feet of soil did not indicate petroleum impacts from this depth interval. Field observations and soil results are consistent with a below ground tank release. Based on these factors, the occupational direct contact risk does not appear to be applicable.
- The detections of gasoline and VOCs indicate a vapor intrusion risk may exist.

Summary of Alpha December 2024 Findings

- The maximum gasoline detection was in Boring D8@12' (4,370 ppm) and rapidly attenuates with depth to Boring D8@20' (142 ppm).
- Visual observations in the upper 3 feet of soil did not indicate petroleum impacts from this depth interval. Field observations and soil results are consistent with a below ground tank release. Based on these factors, the occupational direct contact risk does not appear to be applicable.
- The groundwater analytical results from the two downgradient wells indicate that gasoline or VOCs were not detected in Boring D9 or D10.
- The laboratory analytical results indicate TPH detections in Sub-Slab Vapor Sample SS1 exceed the Vapor Intrusion into Buildings RBCs for occupational receptors. The detected concentration was 47,800 µg/m3 and the occupational RBC is 40,000 µg/m3. The field technician noted that the sample was collected along a crack in the concrete floor. This appears to have biased the sample results high.



Summary of Alpha March 2025 Findings

• The laboratory analytical results indicate VOC and TPH detections in sub-slab vapor sample. The detected concentrations did not exceed the Vapor Intrusion into Buildings RBCs for occupational receptors. The detected TPH concentrations of 504 μ g/m3 in SS3-2, 390 μ g/m3 in SS4 and 425 μ g/m3 in SS5 are well below the occupational RBC is 40,000 μ g/m3. Sample SS3-2 was located approximately 3 feet from SS1.

7.2 Conclusions

Soil

Gasoline impacts in the soils appear to be isolated around the area of the southern tank pit. Based on previous and current data, the impacted area measures approximately 30'x 30' or 900 square feet. Soil impacts are relatively deep ranging from approximately 12 to 20 feet. The lateral and vertical impacts appear to have been sufficiently delineated.

Groundwater

Gasoline impacts were not encountered in the two downgradient wells. If any groundwater impacts on the site exist, they would be restricted to the immediate area around the former tank.

7.3 Risk Evaluation

Based on the previous soil and groundwater testing and the current sub-slab vapor findings, no environmental conditions were encountered at the Property that could pose an adverse risk to site occupants or future workers.

7.4 Recommendations

Alpha does not recommend further assessment of the Property at this time.

Based on the analytical results and comparison with current DEQ RBCs, it is our opinion that the site is a candidate for an NFA determination by the DEQ.

Basis for NFA recommendation:

- Near surface impacts (less than 3 feet) do not appear to be present as the release was from an underground storage tank.
- The concentrations of petroleum and VOCs in soils greater than three feet are below all RBCs, except leaching to groundwater.
- Groundwater at the site is not used and any potential impacts are limited to the site itself.
- The investigation indicates site impacts are relatively localized.
- The investigation indicates that in general, soil concentrations rapidly attenuate with depth.
- Soil vapors are not a significant risk to site occupants.
- The area in the vicinity of the Property is supplied by the municipal water system.



8.0 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.

8.1 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.

8.2 Use Reliance

This report has been prepared for the express use of Jay Poizer, his representatives and the Oregon DEQ. 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.



9.0 SIGNATURES OF ENVIROMENTAL PROFESSIONALS

Alpha is providing the client with the results of our investigation for the Property. 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.



10.0 REFERENCES

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

New Jersey Department of Environmental Protection, Site Remediation and Waste Management Program, *Vapor Intrusion Guidance*, Version 4.1, January 2018.

Oregon DEQ, Files from Public Records.

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

United States Geological Survey, Depth to Groundwater in Portland, Interactive Map.

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



11.0 ACRONYMS

ASTM American Society for Testing and Materials

bsg below surface grade

COPC Contaminants of Potential Concern

CSM Conceptual Site Model

DEQ Department of Environmental Quality (Oregon)

EPA Environmental Protection Agency

ESA Environmental Site Assessment

ND Not Detected At or Above Laboratory Reporting Limits

ppm parts per million

RBCs Risk-based Concentrations
RBDM Risk-based Decision Making

RCRA Resource Conservation & Recovery Act

RECs Recognized Environmental Conditions

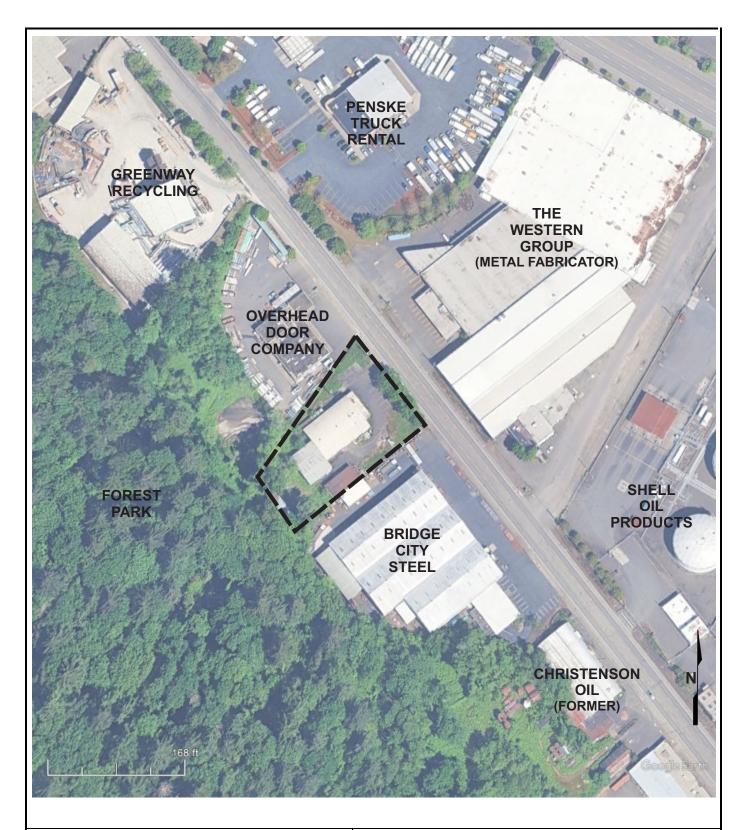
TPH Total Petroleum Hydrocarbons
VOCs Volatile Organic Compounds

WRD Water Resources Department (Oregon)



FIGURES:

SITE OVERVIEW MAP SITE SAMPLING MAP



LEGEND



PROPERTY BOUNDARY

FIGURE 1: SITE OVERVIEW MAP

3939 NW ST HELENS ROAD PORTLAND, OREGON 97210

NOTES

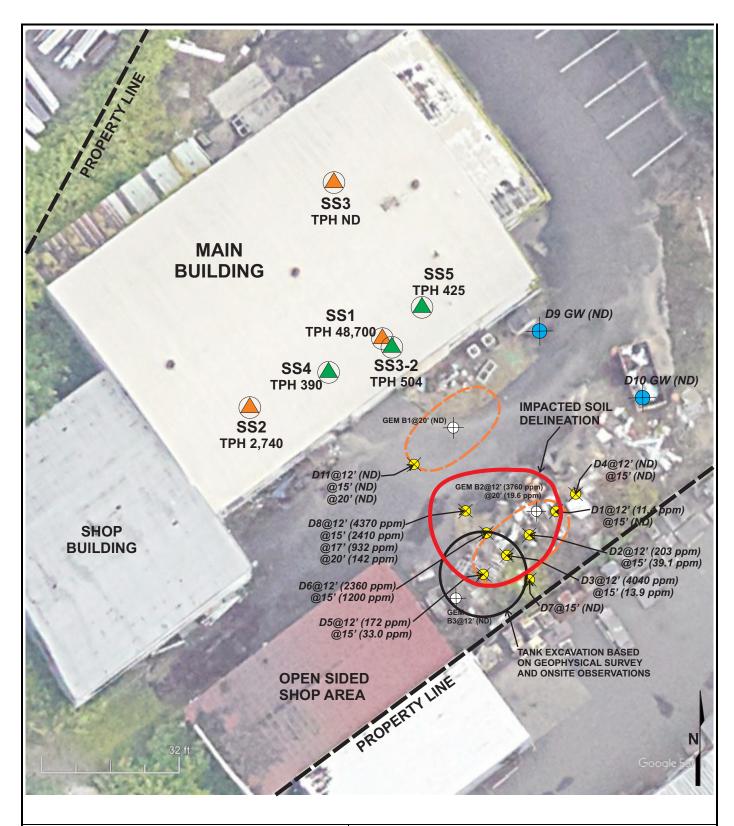
MAP SYMBOLS DENOTE LOCATIONS AND MAY NOT BE TO SCALE

GOOGLE MAPS BASE IMAGE MAY BE SKEWED BY SATELLITE POSITION

PROJECT NO: 24-63060



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



LEGEND

- X SOIL SAMPLE LOCATIONS
- → GEM SOIL SAMPLE LOCATIONS
- → GW SAMPLE LOCATION
- SUB-SLAB VAPOR SAMPLE LOCATIONS (DEC 2024)
- TANK EXCAVATION BASED ON GEM MAP
- SUB-SLAB VAPOR SAMPLE LOCATIONS (MAR 2025)

FIGURE 2: SITE SAMPLING MAP

3939 NW ST HELENS ROAD PORTLAND, OREGON 97210

NOTES

MAP SYMBOLS DENOTE LOCATIONS AND MAY NOT BE TO SCALE

GOOGLE MAPS BASE IMAGE MAY BE SKEWED BY SATELLITE POSITION

PROJECT NO: 24-63060



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

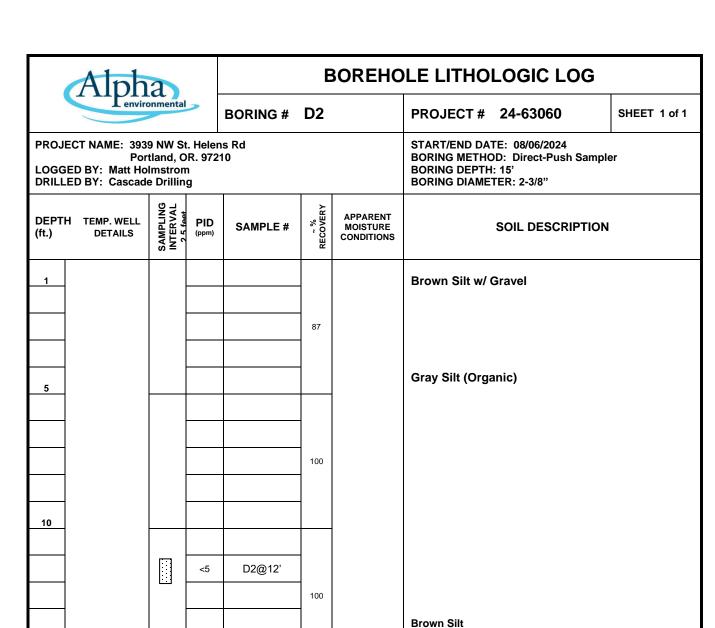


APPENDIX A:

BORING LOGS



BOREHOLE LITHOLOGIC LOG BORING # D1 PROJECT # 24-63060 SHEET 1 of 1 PROJECT NAME: 3939 NW St. Helens Rd START/END DATE: 08/06/2024 **BORING METHOD: Direct-Push Sampler** Portland, OR. 97210 LOGGED BY: Matt Holmstrom **BORING DEPTH: 15' DRILLED BY: Cascade Drilling BORING DIAMETER: 2-3/8"** SAMPLING INTERVAL 2.5 feet ~ % RECOVERY APPARENT DEPTH TEMP. WELL PID SAMPLE# MOISTURE **SOIL DESCRIPTION** (ft.) **DETAILS** (ppm) CONDITIONS Dry Brown Silt w/ Gravel <5 62 Damp **Gray Silt (Organic)** 5 No Recovery from 5'-10' <5 0 10 **Brown/Gray Silt** D1@12' <5 Gravel 100 **Gray Silt Brown Sitl** <5 D1@15' 15 Bottom of boring at 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.



Bottom of boring at 15'

chips.

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

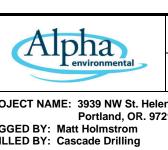
<5

15

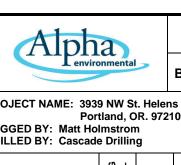
D2@15'



BOREHOLE LITHOLOGIC LOG BORING # D3 PROJECT # 24-63060 SHEET 1 of 1 PROJECT NAME: 3939 NW St. Helens Rd START/END DATE: 08/06/2024 **BORING METHOD: Direct-Push Sampler** Portland, OR. 97210 LOGGED BY: Matt Holmstrom **BORING DEPTH: 15' DRILLED BY: Cascade Drilling BORING DIAMETER: 2-3/8"** SAMPLING INTERVAL 2.5 feet ~ % RECOVERY APPARENT DEPTH TEMP. WELL PID SAMPLE# MOISTURE **SOIL DESCRIPTION** (ft.) DETAILS (ppm) CONDITIONS Dry Brown Silt w/ Gravel 80 **Gray Silt** Damp 5 Gray/Brown Silt 100 10 89 D3@12' Moist **Dark Gray Silt** 100 **Brown Silt** <5 D3@15' 15 Bottom of boring at 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.



BOREHOLE LITHOLOGIC LOG BORING # D4 PROJECT # 24-63060 SHEET 1 of 1 PROJECT NAME: 3939 NW St. Helens Rd START/END DATE: 08/06/2024 Portland, OR. 97210 **BORING METHOD: Direct-Push Sampler** LOGGED BY: Matt Holmstrom **BORING DEPTH: 15' DRILLED BY: Cascade Drilling BORING DIAMETER: 2-3/8"** SAMPLING INTERVAL 2.5 feet ~ % RECOVERY APPARENT DEPTH TEMP. WELL PID SAMPLE# MOISTURE **SOIL DESCRIPTION** (ft.) **DETAILS** (ppm) CONDITIONS Dry Gravel **Brown Silt** 80 **Gray Silt** <5 Damp 5 **Brown/Gray Silt** 80 10 <5 D4@12' 100 **Gray Silt** <5 D4@15' 15 Bottom of boring at 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.



BOREHOLE LITHOLOGIC LOG BORING # D5 PROJECT # 24-63060 SHEET 1 of 1 PROJECT NAME: 3939 NW St. Helens Rd START/END DATE: 08/06/2024 BORING METHOD: Direct-Push Sampler Portland, OR. 97210 LOGGED BY: Matt Holmstrom **BORING DEPTH: 15' DRILLED BY: Cascade Drilling BORING DIAMETER: 2-3/8"** SAMPLING INTERVAL 2.5 feet ~ % RECOVERY APPARENT DEPTH TEMP. WELL PID SAMPLE# MOISTURE **SOIL DESCRIPTION** (ft.) **DETAILS** (ppm) CONDITIONS Dry Brown Silt w/ Gravel <5 67 5 **Gray Silt (Organic)** <5 100 Damp 10 <5 D5@12' 100 <5 D5@15' 15 Bottom of boring at 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.



BOREHOLE LITHOLOGIC LOG

BORING # D6 PROJECT # 24-63060 SHEET 1 of 1 PROJECT NAME: 3939 NW St. Helens Rd START/END DATE: 08/06/2024 Portland, OR. 97210 **BORING METHOD: Direct-Push Sampler** LOGGED BY: Matt Holmstrom **BORING DEPTH: 15' DRILLED BY: Cascade Drilling BORING DIAMETER: 2-3/8"** SAMPLING INTERVAL 2.5 feet ~ % RECOVERY **APPARENT** DEPTH TEMP. WELL PID SAMPLE# MOISTURE **SOIL DESCRIPTION** (ft.) **DETAILS** (ppm) CONDITIONS Dry **Asphalt Brown Sandy Silt w/ Gravel** 60 **Brown Silt** 37 10 Moist **Gray Silt** 46 D6@12' 100 **Brown Silt** 15 D6@15' 15 Bottom of boring at 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.



BOREHOLE LITHOLOGIC LOG

BORING # D7 PROJECT # 24-63060 SHEET 1 of 1 PROJECT NAME: 3939 NW St. Helens Rd START/END DATE: 08/06/2024 **BORING METHOD: Direct-Push Sampler** Portland, OR. 97210 LOGGED BY: Matt Holmstrom **BORING DEPTH: 15' DRILLED BY: Cascade Drilling BORING DIAMETER: 2-3/8"** SAMPLING INTERVAL 2.5 feet ~ % RECOVERY APPARENT DEPTH TEMP. WELL PID SAMPLE# MOISTURE **SOIL DESCRIPTION** (ft.) **DETAILS** (ppm) CONDITIONS Dry **Gravel with Sand and Silt Brown Silt** 87 5 Damp **Gray Silt (Organic)** 100 10 **Gray/Brown Silt** 100 <5 D7@15' 15 Bottom of boring at 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.



BOREHOLE LITHOLOGIC LOG

D8 PROJECT # 24-63060 BORING # SHEET 1 of 1 PROJECT NAME: 3939 NW St. Helens Rd START/END DATE: 12/23/2024 Portland, OR. 97210 **BORING METHOD: Direct-Push Sampler** LOGGED BY: Matt Holmstrom **BORING DEPTH: 20' DRILLED BY: Cascade Drilling BORING DIAMETER: 2-3/8"** SAMPLING INTERVAL 25 feet ~ % RECOVERY **APPARENT** DEPTH TEMP. WELL PID SAMPLE # **SOIL DESCRIPTION** MOISTURE CONDITIONS **DETAILS** (ft.) (ppm) Dry **Gravel with Sand and Silt Brown Silt** 5 Damp Moist 10 **Gray/Brown Silt** D8@12' **Gray Silt** Very Moist 100 **Brown Silt** D8@15' 15 Wet D8@17' 100 Bottom of D8@20' boring at 20' 20 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.

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	7 11	enviro	onmental	>	BORING #	D9		PROJECT#	24-63060	SHEET 1 of 1	
LOGG	ECT NAMI ED BY: M ED BY: C	Por latt Ho	tland, O Imstron	R. 972 [.] 1				START/END DATE: 12/23/2024 BORING METHOD: Direct-Push Sampler BORING DEPTH: 20' BORING DIAMETER: 2-3/8"			
DEPTH (ft.)	H TEMP.		SAMPLING INTERVAL 2.5.feet	PID (ppm)	SAMPLE#	~ % RECOVERY	APPARENT MOISTURE CONDITIONS		SOIL DESCRIPTION		
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15							Bottom of boring at 20'				

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		enviro	nmental	>	BORING #	D10		PROJECT#	24-63060	SHEET 1 of 1		
LOGGE	CT NAME: D BY: Mat D BY: Cas	Port tt Hol	land, O mstrom	R. 972 า				START/END DATE: 12/23/2024 BORING METHOD: Direct-Push Sampler BORING DEPTH: 20' BORING DIAMETER: 2-3/8"				
DEPTH (ft.)	TEMP. WI DETAIL		SAMPLING INTERVAL 2.5.feet	PID (ppm)	SAMPLE#	~ % RECOVERY	APPARENT MOISTURE CONDITIONS		SOIL DESCRIPTION			
10 15			σ <u>=</u>				Bottom of boring at 20'	Expendable Dr	TERVAL 10 to 20'	ed with		
]	•										

BOREHOLE LITHOLOGIC LOG BORING # D11 PROJECT # 24-63060 SHEET 1 of 1 PROJECT NAME: 3939 NW St. Helens Rd START/END DATE: 12/23/2024 Portland, OR. 97210 **BORING METHOD: Direct-Push Sampler** LOGGED BY: Matt Holmstrom **BORING DEPTH: 20' DRILLED BY: Cascade Drilling BORING DIAMETER: 2-3/8"** SAMPLING INTERVAL 2.5 feet ~ % RECOVERY **APPARENT** DEPTH TEMP. WELL PID SAMPLE# MOISTURE **SOIL DESCRIPTION** (ft.) **DETAILS** (ppm) CONDITIONS Dry **Gravel with Sand and Silt Brown Silt** 42 5 Damp 100 Moist 10 **Brown Silt** D11@12' 100 **Brown Sand** D11@15' 15 Very Moist 100 Wet Bottom of D11@20' boring at 20' 20 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



APPENDIX B:

ANALYTICAL LABORATORY REPORTS



Pace Analytical® ANALYTICAL REPORT

March 25, 2025

Alpha Environmental Services, Inc

Sample Delivery Group: L1837811

Samples Received: 03/19/2025

Project Number: 24-64842

Description: 3939 NW St Helens Rd

Report To: Jim Cooper

11080 SW Allen Blvd.

Suite 100

Beaverton, OR 97005

Entire Report Reviewed By:

Jordan N Zito

Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and

ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received. Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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Al: Accreditations & Locations	16
Sc: Sample Chain of Custody	17



















SAMPLE SUMMARY

			Collected by	Collected date/time	Received da	te/time
SS3 L1837811-01 Air			24-63060	03/18/25 10:06	03/19/25 09	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
olatile Organic Compounds (MS) by Method TO-15	WG2474821	1	03/23/25 13:49	03/23/25 13:49	GH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SS4 L1837811-02 Air			24-63060	03/18/25 10:16	03/19/25 09	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
olatile Organic Compounds (MS) by Method TO-15	WG2474821	1	03/23/25 14:30	03/23/25 14:30	GH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SS5 L1837811-03 Air			24-63060	03/18/25 10:23	03/19/25 09	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method TO-15	WG2474821	1	03/23/25 15:11	03/23/25 15:11	GH	Mt. Juliet, TN



















CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

















Jordan N Zito Project Manager Collected date/time: 03/18/25 10:06

SAMPLE RESULTS - 01

.1837811

Volatile Organic Compounds (MS) by Method TO-15

	CAS #	Mol. Wt.	MDL	RDL	Result	Qualifier	Dilution	<u>Batch</u>
Analyte			ug/m3	ug/m3	ug/m3			
TPH (GC/MS) Low Fraction	8006-61-9	101	282	826	504	<u>J</u>	1	WG2474821
Acetone	67-64-1	58.10	1.24	2.97	63.2	<u>-</u>	1	WG2474821
Allyl chloride	107-05-1	76.53	0.582	0.626	U		1	WG2474821
Benzene	71-43-2	78.10	0.351	0.639	3.83		1	WG2474821
Benzyl Chloride	100-44-7	127	0.461	1.04	U		1	WG2474821
Bromodichloromethane	75-27-4	164	0.466	1.04	U		1	WG2474821
Bromoform	75-25-2	253	0.781	6.52	U		1	WG2474821
Bromomethane	74-83-9	94.90	0.364	0.776	U		1	WG2474821
,3-Butadiene	106-99-0	54.10	0.350	4.43	9.56		1	WG2474821
Carbon disulfide	75-15-0	76.10	0.498	1.24	5.79		1	WG2474821
Carbon tetrachloride	56-23-5	154	0.470	1.26	U		1	<u>WG2474821</u>
Chlorobenzene	108-90-7	113	0.545	0.924	U		1	<u>WG2474821</u>
Chloroethane	75-00-3	64.50	0.290	0.528	U		1	WG2474821
Chloroform	67-66-3	119	0.506	0.973	U		1	WG2474821
Chloromethane	74-87-3	50.50	0.227	0.413	1.32		1	WG2474821
2-Chlorotoluene	95-49-8	126	0.406	1.03	U		1	WG2474821
Cyclohexane	110-82-7	84.20	0.585	0.689	2.78		1	WG2474821
Dibromochloromethane	124-48-1	208	0.592	1.70	U		1	WG2474821
,2-Dibromoethane	106-93-4	188	0.531	1.54	U		1	WG2474821
,2-Dichlorobenzene	95-50-1	147	0.441	1.20	U		1	WG2474821
,3-Dichlorobenzene	541-73-1	147	0.453	1.20	U		1	WG2474821
,4-Dichlorobenzene	106-46-7	147	0.462	1.20	U		1	WG2474821
,2-Dichloroethane	107-06-2	99	0.296	0.810	U		1	WG2474821
,1-Dichloroethane	75-34-3	98	0.285	0.802	U		1	WG2474821
,1-Dichloroethene	75-3 5- 3 75-35-4	96.90	0.205	0.793	U		1	WG2474821
	156-59-2			0.793	U		1	
cis-1,2-Dichloroethene		96.90	0.315		U			WG2474821
rans-1,2-Dichloroethene	156-60-5	96.90	0.291	0.793			1	WG2474821
,2-Dichloropropane	78-87-5	113	0.348	0.924	U		1	WG2474821
is-1,3-Dichloropropene	10061-01-5	111	0.337	0.908	U		1	WG2474821
rans-1,3-Dichloropropene	10061-02-6	111	0.361	0.908	U		1	WG2474821
,4-Dioxane	123-91-1	88.10	0.591	2.27	1.70	<u>J</u>	1	WG2474821
Ethanol	64-17-5	46.10	4.47	4.71	35.1		1	<u>WG2474821</u>
Ethylbenzene	100-41-4	106	0.337	0.867	7.41		1	WG2474821
I-Ethyltoluene	622-96-8	120	0.435	0.982	6.48		1	WG2474821
Trichlorofluoromethane	75-69-4	137.40	0.433	1.12	1.71		1	WG2474821
Dichlorodifluoromethane	75-71-8	120.92	0.399	0.989	1.62		1	WG2474821
,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.576	1.53	1.17	<u>J</u>	1	WG2474821
,2-Dichlorotetrafluoroethane	76-14-2	171	0.529	1.40	U		1	WG2474821
Heptane	142-82-5	100	0.466	0.818	6.26		1	WG2474821
Hexachloro-1,3-butadiene	87-68-3	261	0.854	6.73	U		1	WG2474821
ı-Hexane	110-54-3	86.20	0.504	2.22	10.2		1	WG2474821
sopropylbenzene	98-82-8	120.20	0.355	0.983	0.703	<u>J</u>	1	WG2474821
Methylene Chloride	75-09-2	84.90	0.587	0.694	6.56	-	1	WG2474821
Methyl Butyl Ketone	591-78-6	100	0.544	5.11	0.875	J	1	WG2474821
2-Butanone (MEK)	78-93-3	72.10	0.342	3.69	45.4	<u>-</u>	1	WG2474821 WG2474821
?-витапопе (мЕк) I-Methyl-2-pentanone (MIBK)				5.12		1		
		100.10	0.434		0.880	<u>J</u>	1	WG2474821
Methyl methacrylate	80-62-6	100.12	0.692	0.819	U		1	WG2474821
MTBE	1634-04-4	88.10	0.293	0.721	U		1	WG2474821
laphthalene	91-20-3	128	3.23	3.30	U		1	WG2474821
!-Propanol	67-63-0	60.10	1.67	3.07	133		1	<u>WG2474821</u>
Propene	115-07-1	42.10	0.368	2.15	33.9		1	WG2474821
Styrene	100-42-5	104	0.341	1.70	U		1	WG2474821
,1,2,2-Tetrachloroethane	79-34-5	168	0.478	1.37	U		1	WG2474821
Tetrachloroethylene	127-18-4	166	0.754	1.36	U		1	WG2474821
Tetrahydrofuran	109-99-9	72.10	0.484	0.590	U		1	WG2474821
Toluene	108-88-3	92.10	0.490	1.88	29.9		1	WG2474821

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Collected date/time: 03/18/25 10:06

1837811

Volatile Organic Compounds (MS) by Method TO-15

	CAS #	Mol. Wt.	MDL	RDL	Result	Qualifier	Dilution	Batch
Analyte			ug/m3	ug/m3	ug/m3			
1,2,4-Trichlorobenzene	120-82-1	181	3.42	4.66	U		1	WG2474821
1,1,1-Trichloroethane	71-55-6	133	0.391	1.09	0.577	<u>J</u>	1	WG2474821
1,1,2-Trichloroethane	79-00-5	133	0.372	1.09	U		1	WG2474821
Trichloroethylene	79-01-6	131	0.364	1.07	U		1	WG2474821
1,2,4-Trimethylbenzene	95-63-6	120	0.455	0.982	6.72		1	WG2474821
1,3,5-Trimethylbenzene	108-67-8	120	0.419	0.982	2.33		1	WG2474821
2,2,4-Trimethylpentane	540-84-1	114.22	0.420	0.934	6.87		1	WG2474821
Vinyl chloride	75-01-4	62.50	0.211	0.511	U		1	WG2474821
Vinyl Bromide	593-60-2	106.95	0.328	0.875	U		1	WG2474821
Vinyl acetate	108-05-4	86.10	0.341	2.22	U		1	WG2474821
m&p-Xylene		106	0.754	1.73	30.9		1	WG2474821
o-Xylene	95-47-6	106	0.385	0.867	10.9		1	WG2474821
(S) 1,4-Bromofluorobenzene	460-00-4	175			97.3		60.0-140	WG2474821

















Collected date/time: 03/18/25 10:16

L1837811

Volatile Organic Compounds (MS) by Method TO-15

Mathew 1968 1968 1968 1969	Volatile Organic C			-					
PRINGENSIAN 1945 1950	Analysis	CAS #	Mol. Wt.				Qualifier	Dilution	Batch
Infectione	•	0000000	404						W400 474004
Ally chinotine	, ,						<u>J</u>		
Bezerie 7,432 7810									
Remy Chickinde	•								
Biomodelinamethane 75-27-4 1964 0.446 1.244 U									
Romontom	*								
Bromomehane									
1.3-Butadiane									
Gabon disidife									
Carbon interactionide 56-23-5 154 0.470 126 U							<u>J</u>		
Chlorobenzene 108 90.7 113 0 545 0 324 U 1 1 W62474821 Chlorobenzene 75-00.3 645 0 290 0.528 U 1 1 W62474821 Chlorobename 75-00.3 165 0 290 0.528 U 1 1 W62474821 Chlorobename 74-87-3 50.50 0.272 0.412 1.43 1.1 1 W62474821 Chlorobename 74-87-3 50.50 0.272 0.412 1.43 1.1 1 W62474821 Chlorobename 10 92-7 84.20 0.585 0.689 1.17 1 1 W62474821 Cyclohexone 110 82-7 84.20 0.585 0.689 1.17 1 1 W62474821 Dibloromochioromethame 124-88-1 208 0.592 1.70 U 1 1 W62474821 Dibloromochioromethame 124-88-1 208 0.592 1.70 U 1 1 W62474821 1.2 Dichlorobename 10 95-50-1 147 0.441 1.20 U 1 1 W62474821 1.2 Dichlorobename 10 95-50-1 147 0.453 1.20 U 1 1 W62474821 1.4 Dichlorobename 10 95-67-1 147 0.453 1.20 U 1 1 W62474821 1.4 Dichlorobename 10 10-67-2 99 0.296 0.310 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-7 147 0.462 1.20 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-7 147 0.462 1.20 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-7 147 0.462 1.20 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-7 147 0.462 1.20 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-7 147 0.462 1.20 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-7 147 0.462 1.20 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-7 147 0.462 1.20 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-7 147 0.462 1.20 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-7 147 0.462 1.20 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-7 147 0.462 1.20 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-1 11 0.337 0.988 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-1 11 0.337 0.988 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-1 11 0.337 0.988 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-1 11 0.361 0.988 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-1 11 0.361 0.988 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-1 11 0.361 0.988 U 1 1 W62474821 1.4 Dichlorobename 10 10-66-1 11 0.361 0.988 0.989 0.989 0.881 1.8 0.479 U 1 W62474821 1.4 Dichlorobename 10 10-66-1 11 0.361 0.988 0.989 0.989 0.881 0.989 0.989 0.881 0.989 0.									
Chlorochanne 75 0-0-3 64 50 0 290 0.528 U 1 1 W62474821 Chlorochanne 76 7663 II 9 0.506 0.973 U 1 W52474821 Chlorochanne 74 87 3 50.50 0.272 0.413 1.43 I 1 W62474821 2 Chlorochanne 95 49-8 126 0.406 1.03 U 1 W62474821 2 Chlorochanne 10 10 82.7 84 20 0.585 0.689 1.17 I W62474821 1 Chlorochanne 10 10 82.7 84 20 0.585 0.689 1.17 I W62474821 1 Chlorochanne 10 10 82.7 84 20 0.585 0.689 1.17 I W62474821 1 Chlorochanne 10 10 93 4 II 88 0.531 1.54 U 1 I W62474821 1 Chlorochanne 95 50.1 147 0.441 1.20 U 1 I W62474821 1 Chlorochanne 95 50.1 147 0.441 1.20 U 1 I W62474821 1 Chlorochanne 10 10 41 1 W7 0.453 1.20 U 1 I W62474821 1 Chlorochanne 10 10 40 47 I W7 0.453 1.20 U 1 I W62474821 1 Chlorochanne 10 10 40 47 I W7 0.452 1.20 U 1 I W62474821 1 Chlorochanne 10 70 62 99 0.296 0.810 U 1 W62474821 1 Chlorochanne 10 70 62 99 0.296 0.810 U 1 W62474821 1 Chlorochanne 10 70 62 99 0.296 0.810 U 1 W62474821 1 Chlorochanne 10 70 62 99 0.296 0.70 0.70 U 1 W62474821 1 Chlorochanne 10 75 34 9 6.90 0.296 0.70 0.70 U 1 W62474821 1 Chlorochanne 10 75 65 2 96.90 0.315 0.793 U 1 W62474821 1 Chlorochanne 10 75 65 2 96.90 0.315 0.793 U 1 W62474821 1 Chlorochanne 10 75 65 0.5 96.90 0.291 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.291 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.315 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.315 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.315 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.316 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.315 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.315 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.315 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.315 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.315 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.315 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.315 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.793 U 1 W62474821 1 Chlorochanne 10 75 66 0.5 96.90 0.793 U 1 W62474821 1 Chlorochanne 10 75 67									
Chloroform 67-66-3 199 0.506 0.972 U 1 1 W6244827 Chloroformelhane	Chlorobenzene								
Chloromethane 74 87-3 50.50 0.227 0.413 1.43 1 WG2474827	Chloroethane								
2-Chlorotoluene 95-49-8 126 0.406 1.03 U 1 WC2474821 Cyclohexane 110-27-7 84-20 0.595 0.589 1.17 1 WG2474821 12-Dichlorobehane 106-33-1 188 0.531 1.54 U 1 WG2474821 12-Dichlorobehane 95-01 147 0.441 1.20 U 1 WG2474821 12-Dichlorobenzene 547-31 147 0.453 1.20 U 1 WG2474821 14-Dichlorochane 106-667 147 0.462 1.20 U 1 WG2474821 14-Dichlorochane 106-677 47 0.462 1.20 U 1 WG2474821 14-Dichlorochane 75-35-4 98 0.256 0.802 U 1 WG2474821 14-Dichlorochane 75-65-9 96-90 0.315 0.793 U 1 WG2474821 14-Dichlorochane 156-69-2 96-90 0.291 0.793 U	Chloroform					U		1	
Oycohexane 110-82-7 84.20 0.585 0.689 1,17 1 WGZ474821 Dibromochlonomethane 164-93-4 188 0.531 1,54 U 1 WGZ474821 1.2-Dictromethane 95-50-1 147 0.411 120 U 1 WGZ474821 1.2-Dictromethane 95-50-1 147 0.453 120 U 1 WGZ474821 1.4-Dictromochane 164-67-1 147 0.462 120 U 1 WGZ474821 1.4-Dictromochane 167-65-2 99 0.296 0.810 U 1 WGZ474821 1.1-Dictromochane 75-35-4 96-90 0.296 0.793 U 1 WGZ474821 1.1-Dictromochane 156-59-2 96-90 0.291 0.793 U 1 WGZ474821 1.1-Dictromochane 156-59-2 96-90 0.291 0.793 U 1 WGZ474821 1.2-Dictromochane 106-10-5 11 0.337 0.908	Chloromethane								WG2474821
District	2-Chlorotoluene	95-49-8	126	0.406	1.03	U		1	WG2474821
1.2-Dichromoethane 96.93.4 188 0.531 1.54 U	Cyclohexane								
12-Dichlorobenzene 95-50-1 M7	Dibromochloromethane	124-48-1	208	0.592	1.70	U		1	WG2474821
1.3 Dichiorobenzene 541-73-1	1,2-Dibromoethane	106-93-4	188	0.531		U		1	WG2474821
1.4-Dichlorobenzene 106-46-7	1,2-Dichlorobenzene	95-50-1	147	0.441	1.20	U		1	WG2474821
1.2-Dichloroethane	1,3-Dichlorobenzene	541-73-1	147	0.453	1.20	U		1	WG2474821
11-Dichioroethane 75-34-3 98 0.285 0.802 U 1 1 W62474821 11-Dichioroethene 75-35-4 96.90 0.296 0.793 U 1 1 W62474821 11-Dichioroethene 75-35-4 96.90 0.296 0.793 U 1 1 W62474821 11-Dichioroethene 75-69-2 96.90 0.315 0.793 U 1 1 W62474821 11-Dichioroptopane 78-87-5 113 0.348 0.924 U 1 1 W62474821 11-Dichioroptopane 78-87-5 113 0.348 0.924 U 1 1 W62474821 11-Dichioroptopane 10061-01-5 111 0.337 0.908 U 1 1 W62474821 11-Dichioroptopane 10061-01-5 111 0.337 0.908 U 1 1 W62474821 11-Dichioroptopane 10061-01-5 111 0.337 0.908 U 1 1 W62474821 11-Dichioroptopane 10061-01-5 111 0.337 0.908 U 1 1 W62474821 11-Dichioroptopane 10061-01-5 111 0.337 0.908 U 1 1 W62474821 11-Dichioroptopane 10061-01-5 111 0.351 0.908 U 1 1 W62474821 11-Dichioroptopane 10061-01-5 111 0.351 0.908 U 1 1 W62474821 11-Dichioroptopane 10061-01-5 111 0.351 0.908 U 1 1 W62474821 11-Dichioroptopane 10061-01-5 111 0.351 0.908 U 1 1 W62474821 11-Dichioroptopane 10061-01-5 111 0.337 0.987 0.887 0	1,4-Dichlorobenzene	106-46-7	147	0.462	1.20	U		1	WG2474821
11-Dichloroethene 75-35-4 96.90 0.296 0.793 U	1,2-Dichloroethane	107-06-2	99	0.296	0.810	U		1	WG2474821
cis-12-Dichloroethene 156-59-2 96.90 0.315 0.793 U 1 WG2474821 trans-12-Dichloroethene 156-60-5 96.90 0.291 0.793 U 1 WG2474821 12-Dichloropropene 78-87-5 113 0.348 0.924 U 1 WG2474821 15-13-Dichloropropene 10061-01-5 111 0.337 0.908 U 1 WG2474821 14-Dioxane 123-91-1 88.10 0.591 2.27 U 1 WG2474821 Ethnol 64-75- 46.10 4.47 4.71 39.0 1 WG2474821 Ethylbenzene 100-41-4 106 0.337 0.867 5.81 1 WG2474821 Ethylbenzene 622-96-8 120 0.435 0.982 5.30 1 WG2474821 Ethylbenzene 75-78-4 127.02 0.399 0.989 1.48 1 WG2474821 1,1-2-Trichlorotrilluoromethane 76-12-1 187.40 0.576	1,1-Dichloroethane	75-34-3	98	0.285	0.802	U		1	WG2474821
trans-1,2-Dichloroethene 156-60-5 96.90 0.291 0.793 U 1 WG2474821 1,2-Dichloropropane 78-87-5 113 0.348 0.924 U 1 WG2474821 cis-1,3-Dichloropropene 10061-02-6 111 0.337 0.908 U 1 WG2474821 1,4-Dioxane 123-91-1 88.10 0.591 2.27 U 1 WG2474821 Ethuplo 64-17-5 46.10 4.47 4.71 39.0 1 WG2474821 Ethylperaene 100-41-4 106 0.337 0.867 5.81 1 WG2474821 Ethylperaene 100-41-4 106 0.337 0.867 5.81 1 WG2474821 Ethylperaene 100-41-4 106 0.337 0.867 5.81 1 WG2474821 Tichloromethane 75-69-8 137.40 0.433 112 1.41 1 WG2474821 1,1,2-Tichlorotrifluoroethane 75-18 120.92 0.399 <t< td=""><td>1,1-Dichloroethene</td><td>75-35-4</td><td>96.90</td><td>0.296</td><td>0.793</td><td>U</td><td></td><td>1</td><td>WG2474821</td></t<>	1,1-Dichloroethene	75-35-4	96.90	0.296	0.793	U		1	WG2474821
1.2-Dichloropropane 78-87-5 113 0.348 0.924 U 1 1 W62474821 cis-1.3-Dichloropropene 10061-01-5 111 0.337 0.908 U 1 1 W62474821 trans-1.3-Dichloropropene 10061-01-6 111 0.361 0.908 U 1 1 W62474821 trans-1.3-Dichloropropene 10061-02-6 111 0.361 0.908 U 1 1 W62474821 trans-1.3-Dichloropropene 10061-02-6 111 0.361 0.908 U 1 1 W62474821 Elthanol 64-17-5 46.10 4.47 4.71 39.0 1 1 W62474821 Elthylenzene 100-41-4 106 0.337 0.867 5.81 1 W62474821 Elthylenzene 622-96-8 120 0.435 0.982 5.30 1 1 W62474821 Elthyloromethane 75-69-4 137-40 0.433 1.12 1.41 1 1 W62474821 Dichlorodifluoromethane 75-71-8 120.92 0.399 0.989 1.48 1 W62474821 Dichlorodifluoromethane 75-71-8 120.92 0.399 0.989 1.48 1 W62474821 11.2-Trichlorotifluoroethane 76-13-1 187-40 0.576 1.53 0.647 J 1 W62474821 11.2-Dichlorotethalluoroethane 76-13-1 187-40 0.576 1.53 0.647 J 1 W62474821 11.2-Dichlorotethalluoroethane 76-13-1 0.0529 1.40 U 1 W62474821 Hexachloro-1.3-butadiene 87-68-3 261 0.854 6.73 U 1 W62474821 Hexachloro-1.3-butadiene 87-68-3 261 0.854 6.73 U 1 W62474821 Hexane 110-54-3 86.20 0.504 2.22 8.88 1 W62474821 Sopropylbenzene 98-82-8 120.20 0.355 0.983 0.570 J 1 W62474821 Methyl Butyl Ketone 591-78-6 100 0.544 5.11 U 1 W62474821 Methyl Butyl Ketone 591-78-6 100 0.544 5.11 U 1 W62474821 Methyl Butyl Ketone 591-78-6 100 0.544 5.11 U 1 W62474821 Methyl Butyl Ketone 591-78-6 100 0.544 5.11 U 1 W62474821 Methyl Butyl Ketone 591-78-6 100.12 0.692 0.819 U 1 W62474821 Methyl Butyl Ketone 591-78-6 100.12 0.692 0.819 U 1 W62474821 Methyl Butyl Ketone 591-78-6 0.010 1.67 0.307 0.06 1 W62474821 Methyl methacylate 1634-044 88.10 0.293 0.721 U 1 W62474821 Methyl methacylate 1634-044 88.10 0.293 0.721 U 1 W62474821 Methyl methacylate 1634-044 88.10 0.293 0.721 U 1 W62474821 Methyl methacylate 1634-044 88.10 0.293 0.721 U 1 W62474821 Methyl methacylate 1634-044 88.10 0.293 0.721 U 1 W62474821 Methyl methacylate 1634-044 88.10 0.293 0.721 U 1 W62474821 Methyl methacylate 1634-044 88.10 0.293 0.721 U 1 W62474821 Methyl methacylate 1634-044 88.10 0.293 0.721 U 1 W624748	cis-1,2-Dichloroethene	156-59-2	96.90	0.315	0.793	U		1	WG2474821
cis-1,3-Dichloropropene 10061-01-5 111 0.337 0.908 U 1 WG2474821 trans-1,3-Dichloropropene 10061-02-6 111 0.361 0.908 U 1 WG2474821 1.4-Dioxane 123-91-1 88.10 0.591 2.27 U 1 WG2474821 Ethylopene 64-17-5 46.10 4.47 4.71 39.0 1 WG2474821 Ethylopene 100-41-4 106 0.337 0.867 5.81 1 WG2474821 4-Ethylopene 622-96-8 120 0.435 0.982 5.30 1 WG2474821 1-Tichlorofluoromethane 75-78-8 137.40 0.433 112 1.41 1 WG2474821 Dichlorotefluoromethane 75-78-8 120.92 0.399 0.989 1.48 1 WG2474821 1-2-Tichlorotefluorotethane 76-13-1 187.40 0.576 1.53 0.647 J WG2474821 1-2-Tichlorotethane 76-13-1 0.529	trans-1,2-Dichloroethene	156-60-5	96.90	0.291	0.793	U		1	WG2474821
trans-1,3-Dichloropropene 10061-02-6 111 0.361 0.908 U 1 WG2474821 1,4-Dioxane 123-91-1 88.10 0.591 2.27 U 1 WG2474821 Ethanol 64-17-5 46.10 4.47 4.71 39.0 1 WG2474821 Ethylbenzene 100-41-4 106 0.337 0.867 5.81 1 WG2474821 Ethylbenzene 100-41-4 106 0.435 0.982 5.30 1 WG2474821 Trichlorofiluoromethane 75-69-4 137.40 0.433 1.12 1.41 1 WG2474821 Dichlorodifluoromethane 75-17-8 120.92 0.399 0.989 1.48 1 WG2474821 1,1,2-Trichlorotifluoroethane 76-13-1 187.40 0.576 1.53 0.647 J 1 WG2474821 1,2-Dichloroethafluoroethane 76-13-1 187.40 0.576 1.53 0.647 J 1 WG2474821 1,2-Dichloroethafluoroethane </td <td>1,2-Dichloropropane</td> <td>78-87-5</td> <td>113</td> <td>0.348</td> <td>0.924</td> <td>U</td> <td></td> <td>1</td> <td>WG2474821</td>	1,2-Dichloropropane	78-87-5	113	0.348	0.924	U		1	WG2474821
1.4-Dioxane 123-91-1 88.10 0.591 2.27 U 1 WG2474821 Ethanol 64-17-5 46.10 4.47 4.71 39.0 1 WG2474821 Ethylbenzene 100-41-4 106 0.337 0.867 5.81 1 WG2474821 4-Ethyltoluene 622-96-8 120 0.435 0.982 5.30 1 WG2474821 Trichlorofuloromethane 75-69-4 137.40 0.433 112 1.41 1 WG2474821 Dichlorodifluoromethane 75-71-8 120.92 0.399 0.989 1.48 1 WG2474821 11,2-Dirichlorotetrafluoroethane 76-13-1 187.40 0.576 1.53 0.647 ½ 1 WG2474821 11,2-Dirichlorotetrafluoroethane 76-13-2 171 0.529 1.40 U 1 WG2474821 11,2-Dirichlorotetrafluoroethane 76-13-2 171 0.529 1.40 U 1 WG2474821 1,2-Dirichlorotetrafluoroethane 76-13-2 10 0.854 0.31 0.10 0.42 0.22	cis-1,3-Dichloropropene	10061-01-5	111	0.337	0.908	U		1	WG2474821
Ethanol 64-17-5 46.10 4.47 4.71 39.0 1 WG2474821 Ethylbenzene 100-41-4 106 0.337 0.867 5.81 1 WG2474821 4-Ethylbulene 622-96-8 120 0.435 0.982 5.30 1 WG2474821 17richloroffluoromethane 75-69-4 137.40 0.433 1.12 1.41 1 WG2474821 10chlorodifluoromethane 75-77-8 120.92 0.399 0.989 1.48 1 WG2474821 11,2-Trichlorotrifluoroethane 76-13-1 187.40 0.576 1.53 0.647 J 1 WG2474821 1,2-Dichlorotetrafluoroethane 76-14-2 171 0.529 1.40 U 1 WG2474821 Heptane 142-82-5 100 0.466 0.818 3.01 1 WG2474821 Hexane 10-54-3 86.20 0.504 2.22 8.88 1 WG2474821 Isopropylbenzene 98-82-8 120.20	trans-1,3-Dichloropropene	10061-02-6	111	0.361	0.908	U		1	WG2474821
Ethylbenzene 100-41-4 106 0.337 0.867 5.81 1 WG2474821 4-Ethyltoluene 622-96-8 120 0.435 0.982 5.30 1 WG2474821 Trichlorofluoromethane 75-69-4 137.40 0.433 1.12 1.41 1 WG2474821 Dichlorodifluoromethane 75-71-8 120.92 0.399 0.989 1.48 1 WG2474821 1,2-Dichlorotetrafluoroethane 76-13-1 187.40 0.576 1.53 0.647 J 1 WG2474821 Heptane 142-82-5 100 0.466 0.818 3.01 1 WG2474821 Hexachloro-1,3-butadiene 87-68-3 261 0.854 6.73 U 1 WG2474821 Hexachloro-1,3-butadiene 87-68-3 261 0.854 6.73 U 1 WG2474821 Methylane 110-54-3 86.20 0.504 2.22 8.88 1 WG2474821 Methylane Chloride 75-09-2 8	1,4-Dioxane	123-91-1	88.10	0.591	2.27	U		1	WG2474821
4-Ethyltoluene 622-96-8 120 0.435 0.982 5.30 1 WG2474821 Trichlorofluoromethane 75-69-4 137.40 0.433 1.12 1.41 1 WG2474821 Dichlorodifluoromethane 75-71-8 120.92 0.399 0.989 1.48 1 WG2474821 1,1,2-Trichlorotrifluoroethane 76-13-1 187.40 0.576 1.53 0.647 J 1 WG2474821 1,2-Dichlorotetrafluoroethane 76-14-2 171 0.529 1.40 U 1 WG2474821 Heptane 142-82-5 100 0.466 0.818 3.01 1 WG2474821 Heptane 110-54-3 36.20 0.504 2.22 8.88 1 0.62474821 Hexachloro-1,3-butadiene 87-68-3 261 0.854 6.73 U 1 WG2474821 Hexachloro-1,3-butadiene 10-58-3 6.60 0.983 0.570 J 1 WG2474821 Isopropylbenzene 98-82-8 120.20 0.355 0.983 0.570 J 1 WG2474821 <td>Ethanol</td> <td>64-17-5</td> <td>46.10</td> <td>4.47</td> <td>4.71</td> <td>39.0</td> <td></td> <td>1</td> <td>WG2474821</td>	Ethanol	64-17-5	46.10	4.47	4.71	39.0		1	WG2474821
Trichlorofluoromethane 75-69-4 137.40 0.433 1.12 1.41 1 WG2474821 Dichlorodiffluoromethane 75-71-8 120.92 0.399 0.989 1.48 1 WG2474821 1,1,2-Trichlorotirfluoroethane 76-13-1 187.40 0.576 1.53 0.647 J 1 WG2474821 1,2-Dichlorotetrafluoroethane 76-14-2 171 0.529 1.40 U 1 WG2474821 Heptane 142-82-5 100 0.466 0.818 3.01 1 WG2474821 Hexachloro-1,3-butadiene 87-68-3 261 0.854 6.73 U 1 WG2474821 Hexane 110-54-3 86.20 0.504 2.22 8.88 1 WG2474821 Isopropylbenzene 98-82-8 120.20 0.355 0.993 0.570 J 1 WG2474821 Methyll Butyl Ketone 591-78-6 100 0.544 5.11 U 1 WG2474821 4-Methyl-2-pentanone (MEK) <td>Ethylbenzene</td> <td>100-41-4</td> <td>106</td> <td>0.337</td> <td>0.867</td> <td>5.81</td> <td></td> <td>1</td> <td>WG2474821</td>	Ethylbenzene	100-41-4	106	0.337	0.867	5.81		1	WG2474821
Dichlorodifluoromethane 75-71-8 120.92 0.399 0.989 1.48 1 WG2474821 1,2-Trichlorotrifluoroethane 76-13-1 187.40 0.576 1.53 0.647 J 1 WG2474821 1,2-Dichlorotetrafluoroethane 76-14-2 171 0.529 1.40 U 1 WG2474821 1,2-Dichlorotetrafluoroethane 76-14-2 171 0.529 1.40 U 1 WG2474821 1,2-Dichlorotetrafluoroethane 76-8-3 261 0.854 6.73 U 1 WG2474821 1,2-Dichlorotetrafluoroethane 87-68-3 261 0.854 0.504 2.22 8.88 1 WG2474821 1 WG2474821 1,2-Dichlorotetrafluoroethane 87-68-3 86.20 0.504 2.22 8.88 1 WG2474821 W	4-Ethyltoluene	622-96-8	120	0.435	0.982	5.30		1	WG2474821
1,1,2-Trichlorotrifluoroethane 76-13-1 187.40 0.576 1.53 0.647 J 1 WG2474821 1,2-Dichlorotetrafluoroethane 76-14-2 171 0.529 1.40 U 1 WG2474821 Heptane 142-82-5 100 0.466 0.818 3.01 1 WG2474821 Hexachloro-1,3-butadiene 87-68-3 261 0.854 6.73 U 1 WG2474821 In-Hexane 110-54-3 86.20 0.504 2.22 8.88 1 WG2474821 Isopropylbenzene 98-82-8 120.20 0.355 0.983 0.570 J 1 WG2474821 Methylene Chloride 75-09-2 84.90 0.587 0.694 16.7 1 WG2474821 Methyl Butyl Ketone 591-78-6 100 0.544 5.11 U 1 WG2474821 2-Butanone (MEK) 78-93-3 72.10 0.342 3.69 9.08 1 WG2474821 4-Methyl-2-pentanone (MIBK) 108-10-1 100.10 0.434 5.12 0.847 J 1 <	Trichlorofluoromethane	75-69-4	137.40	0.433	1.12	1.41		1	WG2474821
1,2-Dichlorotetrafluoroethane 76-14-2 171 0.529 1.40 U 1 WG2474821 Heptane 142-82-5 100 0.466 0.818 3.01 1 WG2474821 Hexachloro-1,3-butadiene 87-68-3 261 0.854 6.73 U 1 WG2474821 n-Hexane 110-54-3 86.20 0.504 2.22 8.88 1 WG2474821 Isopropylbenzene 98-82-8 120.20 0.355 0.983 0.570 J 1 WG2474821 Methylene Chloride 75-09-2 84.90 0.587 0.694 16.7 1 WG2474821 Methyl Butyl Ketone 591-78-6 100 0.544 5.11 U 1 WG2474821 2-Butanone (MEK) 78-93-3 72.10 0.342 3.69 9.08 1 WG2474821 4-Methyl-2-pentanone (MIBK) 108-10-1 100.10 0.434 5.12 0.847 J 1 WG2474821 METHYL-2-Pentanone (MEK) 108-40-4 88.10 0.293 0.721 U 1 WG2474821	Dichlorodifluoromethane	75-71-8	120.92	0.399	0.989	1.48		1	WG2474821
1,2-Dichlorotetrafluoroethane 76-14-2 171 0.529 1.40 U 1 WG2474821 Heptane 142-82-5 100 0.466 0.818 3.01 1 WG2474821 Hexachloro-1,3-butadiene 87-68-3 261 0.854 6.73 U 1 WG2474821 n-Hexane 110-54-3 86.20 0.504 2.22 8.88 1 WG2474821 Isopropylbenzene 98-82-8 120.20 0.355 0.983 0.570 J 1 WG2474821 Methylene Chloride 75-09-2 84.90 0.587 0.694 16.7 1 WG2474821 Methyl Butyl Ketone 591-78-6 100 0.544 5.11 U 1 WG2474821 2-Butanone (MEK) 78-93-3 72.10 0.342 3.69 9.08 1 WG2474821 4-Methyl-2-pentanone (MIBK) 108-10-1 100.10 0.434 5.12 0.847 J 1 WG2474821 METHYL-2-Pentanone (MEK) 163-40-4 88.10 0.293 0.721 U 1 WG2474821	1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.576	1.53	0.647	J	1	WG2474821
Hexachloro-1,3-butadiene 87-68-3 261 0.854 6.73 U 1 WG2474821 n-Hexane 110-54-3 86.20 0.504 2.22 8.88 1 WG2474821 Isopropylbenzene 98-82-8 120.20 0.355 0.983 0.570 J 1 WG2474821 Methylene Chloride 75-09-2 84.90 0.587 0.694 16.7 1 WG2474821 Methyl Butyl Ketone 591-78-6 100 0.544 5.11 U 1 WG2474821 2-Butanone (MEK) 78-93-3 72.10 0.342 3.69 9.08 1 WG2474821 4-Methyl-2-pentanone (MIBK) 108-10-1 100.10 0.434 5.12 0.847 J 1 WG2474821 Methyl methacrylate 80-62-6 100.12 0.692 0.819 U 1 WG2474821 MTBE 1634-04-4 88.10 0.293 0.721 U 1 WG2474821 2-Propanol 67-63-0 6	1,2-Dichlorotetrafluoroethane	76-14-2	171	0.529	1.40	U		1	WG2474821
n-Hexane 110-54-3 86.20 0.504 2.22 8.88 1 WG2474821 Isopropylbenzene 98-82-8 120.20 0.355 0.983 0.570 J 1 WG2474821 Methylene Chloride 75-09-2 84.90 0.587 0.694 16.7 1 WG2474821 Methyl Butyl Ketone 591-78-6 100 0.544 5.11 U 1 WG2474821 2-Butanone (MEK) 78-93-3 72.10 0.342 3.69 9.08 1 WG2474821 4-Methyl-2-pentanone (MIBK) 108-10-1 100.10 0.434 5.12 0.847 J 1 WG2474821 Methyl methacrylate 80-62-6 100.12 0.692 0.819 U 1 WG2474821 MTBE 1634-04-4 88.10 0.293 0.721 U 1 WG2474821 Naphthalene 91-20-3 128 3.23 3.30 U 1 WG2474821 2-Propanol 67-63-0 60.10 1.67 3.07 20.6 1 WG2474821 Styrene	Heptane	142-82-5	100	0.466	0.818	3.01		1	WG2474821
Sopropylbenzene 98-82-8 120.20 0.355 0.983 0.570 1 WG2474821	Hexachloro-1,3-butadiene	87-68-3	261	0.854	6.73	U		1	WG2474821
Methylene Chloride 75-09-2 84.90 0.587 0.694 16.7 1 WG2474821 Methyl Butyl Ketone 591-78-6 100 0.544 5.11 U 1 WG2474821 2-Butanone (MEK) 78-93-3 72.10 0.342 3.69 9.08 1 WG2474821 4-Methyl-2-pentanone (MIBK) 108-10-1 100.10 0.434 5.12 0.847 J 1 WG2474821 Methyl methacrylate 80-62-6 100.12 0.692 0.819 U 1 WG2474821 MTBE 1634-04-4 88.10 0.293 0.721 U 1 WG2474821 Naphthalene 91-20-3 128 3.23 3.30 U 1 WG2474821 2-Propanol 67-63-0 60.10 1.67 3.07 20.6 1 WG2474821 Styrene 100-42-5 104 0.341 1.70 U 1 WG2474821 1,1,2,2-Tetrachloroethane 79-34-5 168 0.478	n-Hexane	110-54-3	86.20	0.504	2.22	8.88		1	WG2474821
Methyl Butyl Ketone 591-78-6 100 0.544 5.11 U 1 WG2474821 2-Butanone (MEK) 78-93-3 72.10 0.342 3.69 9.08 1 WG2474821 4-Methyl-2-pentanone (MIBK) 108-10-1 100.10 0.434 5.12 0.847 J 1 WG2474821 Methyl methacrylate 80-62-6 100.12 0.692 0.819 U 1 WG2474821 MTBE 1634-04-4 88.10 0.293 0.721 U 1 WG2474821 Naphthalene 91-20-3 128 3.23 3.30 U 1 WG2474821 2-Propanol 67-63-0 60.10 1.67 3.07 20.6 1 WG2474821 Propene 115-07-1 42.10 0.368 2.15 U 1 WG2474821 Styrene 100-42-5 104 0.341 1.70 U 1 WG2474821 1,1,2,2-Tetrachloroethane 79-34-5 168 0.478 1.37<	Isopropylbenzene	98-82-8	120.20	0.355	0.983	0.570	J	1	WG2474821
Methyl Butyl Ketone 591-78-6 100 0.544 5.11 U 1 WG2474821 2-Butanone (MEK) 78-93-3 72.10 0.342 3.69 9.08 1 WG2474821 4-Methyl-2-pentanone (MIBK) 108-10-1 100.10 0.434 5.12 0.847 J 1 WG2474821 Methyl methacrylate 80-62-6 100.12 0.692 0.819 U 1 WG2474821 MTBE 1634-04-4 88.10 0.293 0.721 U 1 WG2474821 Naphthalene 91-20-3 128 3.23 3.30 U 1 WG2474821 2-Propanol 67-63-0 60.10 1.67 3.07 20.6 1 WG2474821 Propene 115-07-1 42.10 0.368 2.15 U 1 WG2474821 Styrene 100-42-5 104 0.341 1.70 U 1 WG2474821 1,1,2,2-Tetrachloroethane 79-34-5 168 0.478 1.37<			84.90		0.694		_	1	
2-Butanone (MEK) 78-93-3 72.10 0.342 3.69 9.08 1 WG2474821 4-Methyl-2-pentanone (MIBK) 108-10-1 100.10 0.434 5.12 0.847 J 1 WG2474821 Methyl methacrylate 80-62-6 100.12 0.692 0.819 U 1 WG2474821 MTBE 1634-04-4 88.10 0.293 0.721 U 1 WG2474821 Naphthalene 91-20-3 128 3.23 3.30 U 1 WG2474821 2-Propanol 67-63-0 60.10 1.67 3.07 20.6 1 WG2474821 Propene 115-07-1 42.10 0.368 2.15 U 1 WG2474821 Styrene 100-42-5 104 0.341 1.70 U 1 WG2474821 1,1,2,2-Tetrachloroethane 79-34-5 168 0.478 1.37 U 1 WG2474821	Methyl Butyl Ketone		100			U		1	
4-Methyl-2-pentanone (MIBK) 108-10-1 100.10 0.434 5.12 0.847 J 1 WG2474821 Methyl methacrylate 80-62-6 100.12 0.692 0.819 U 1 WG2474821 MTBE 1634-04-4 88.10 0.293 0.721 U 1 WG2474821 Naphthalene 91-20-3 128 3.23 3.30 U 1 WG2474821 2-Propanol 67-63-0 60.10 1.67 3.07 20.6 1 WG2474821 Propene 115-07-1 42.10 0.368 2.15 U 1 WG2474821 Styrene 100-42-5 104 0.341 1.70 U 1 WG2474821 1,1,2,2-Tetrachloroethane 79-34-5 168 0.478 1.37 U 1 WG2474821								1	
Methyl methacrylate 80-62-6 100.12 0.692 0.819 U 1 WG2474821 MTBE 1634-04-4 88.10 0.293 0.721 U 1 WG2474821 Naphthalene 91-20-3 128 3.23 3.30 U 1 WG2474821 2-Propanol 67-63-0 60.10 1.67 3.07 20.6 1 WG2474821 Propene 115-07-1 42.10 0.368 2.15 U 1 WG2474821 Styrene 100-42-5 104 0.341 1.70 U 1 WG2474821 1,1,2,2-Tetrachloroethane 79-34-5 168 0.478 1.37 U 1 WG2474821	4-Methyl-2-pentanone (MIBK)		100.10			0.847	J	1	
MTBE 1634-04-4 88.10 0.293 0.721 U 1 WG2474821 Naphthalene 91-20-3 128 3.23 3.30 U 1 WG2474821 2-Propanol 67-63-0 60.10 1.67 3.07 20.6 1 WG2474821 Propene 115-07-1 42.10 0.368 2.15 U 1 WG2474821 Styrene 100-42-5 104 0.341 1.70 U 1 WG2474821 1,1,2,2-Tetrachloroethane 79-34-5 168 0.478 1.37 U 1 WG2474821							-	1	
Naphthalene 91-20-3 128 3.23 3.30 U 1 WG2474821 2-Propanol 67-63-0 60.10 1.67 3.07 20.6 1 WG2474821 Propene 115-07-1 42.10 0.368 2.15 U 1 WG2474821 Styrene 100-42-5 104 0.341 1.70 U 1 WG2474821 1,1,2,2-Tetrachloroethane 79-34-5 168 0.478 1.37 U 1 WG2474821		1634-04-4	88.10			U		1	
2-Propanol 67-63-0 60.10 1.67 3.07 20.6 1 WG2474821 Propene 115-07-1 42.10 0.368 2.15 U 1 WG2474821 Styrene 100-42-5 104 0.341 1.70 U 1 WG2474821 1,1,2,2-Tetrachloroethane 79-34-5 168 0.478 1.37 U 1 WG2474821								1	
Propene 115-07-1 42.10 0.368 2.15 U 1 WG2474821 Styrene 100-42-5 104 0.341 1.70 U 1 WG2474821 1,1,2,2-Tetrachloroethane 79-34-5 168 0.478 1.37 U 1 WG2474821	·								
Styrene 100-42-5 104 0.341 1.70 U 1 WG2474821 1,1,2,2-Tetrachloroethane 79-34-5 168 0.478 1.37 U 1 WG2474821	•								
1,1,2,2-Tetrachloroethane 79-34-5 168 0.478 1.37 U 1 <u>WG2474821</u>									
	•								
	Tetrachloroethylene	127-18-4	166	0.754	1.36	U		1	WG2474821
Tetrahydrofuran 109-99-9 72.10 0.484 0.590 U 1 WG2474821									
Toluene 108-88-3 92.10 0.490 1.88 20.9 1 WG2474821	•								

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Collected date/time: 03/18/25 10:16

Volatile Organic Compounds (MS) by Method TO-15

	CAS #	Mol. Wt.	MDL	RDL	Result	Qualifier	Dilution	Batch
Analyte			ug/m3	ug/m3	ug/m3			
1,2,4-Trichlorobenzene	120-82-1	181	3.42	4.66	U		1	WG2474821
1,1,1-Trichloroethane	71-55-6	133	0.391	1.09	U		1	WG2474821
1,1,2-Trichloroethane	79-00-5	133	0.372	1.09	U		1	WG2474821
Trichloroethylene	79-01-6	131	0.364	1.07	U		1	WG2474821
1,2,4-Trimethylbenzene	95-63-6	120	0.455	0.982	5.30		1	WG2474821
1,3,5-Trimethylbenzene	108-67-8	120	0.419	0.982	2.01		1	WG2474821
2,2,4-Trimethylpentane	540-84-1	114.22	0.420	0.934	8.74		1	WG2474821
Vinyl chloride	75-01-4	62.50	0.211	0.511	U		1	WG2474821
Vinyl Bromide	593-60-2	106.95	0.328	0.875	U		1	WG2474821
Vinyl acetate	108-05-4	86.10	0.341	2.22	U		1	WG2474821
m&p-Xylene		106	0.754	1.73	23.2		1	WG2474821
o-Xylene	95-47-6	106	0.385	0.867	8.54		1	WG2474821
(S) 1,4-Bromofluorobenzene	460-00-4	175			97.0		60.0-140	WG2474821



















Collected date/time: 03/18/25 10:23

Volatile Organic Compounds (MS) by	/ Method TO-15
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	CAS #	Mol. Wt.	MDL	RDL	Result	Qualifier	Dilution	Batch
Analyte			ug/m3	ug/m3	ug/m3			
TPH (GC/MS) Low Fraction	8006-61-9	101	282	826	425	<u>J</u>	1	WG2474821
Acetone	67-64-1	58.10	1.24	2.97	69.1		1	WG2474821
Allyl chloride	107-05-1	76.53	0.582	0.626	U		1	WG2474821
Benzene	71-43-2	78.10	0.351	0.639	4.25		1	WG2474821
Benzyl Chloride	100-44-7	127	0.461	1.04	U		1	WG2474821
Bromodichloromethane	75-27-4	164	0.466	1.34	U		1	WG2474821
Bromoform	75-25-2	253	0.781	6.52	U		1	WG2474821
Bromomethane	74-83-9	94.90	0.364	0.776	U		1	WG2474821
1,3-Butadiene	106-99-0	54.10	0.350	4.43	0.447	<u>J</u>	1	WG2474821
Carbon disulfide	75-15-0	76.10	0.498	1.24	2.92		1	WG2474821
Carbon tetrachloride	56-23-5	154	0.470	1.26	U		1	WG2474821
Chlorobenzene	108-90-7	113	0.545	0.924	U		1	WG2474821
Chloroethane	75-00-3	64.50	0.290	0.528	U		1	WG2474821
Chloroform	67-66-3	119	0.506	0.973	U		1	WG2474821
Chloromethane	74-87-3	50.50	0.227	0.413	1.38		1	WG2474821 WG2474821
2-Chlorotoluene	95-49-8	126	0.406	1.03	1.36 U		1	WG2474021 WG2474821
Cyclohexane	95 -4 9-8 110-82-7	84.20	0.406	0.689	3.89		1	WG2474821 WG2474821
Dibromochloromethane	124-48-1	208	0.585	1.70	3.89 U		1	WG2474821 WG2474821
1,2-Dibromoethane	124-48-1	188	0.592	1.70	U		1	WG2474821 WG2474821
1,2-Dibromoetnane 1,2-Dichlorobenzene	95-50-1	147	0.531	1.54	U		1	WG2474821 WG2474821
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1,3-Dichlorobenzene	541-73-1	147	0.453	1.20	U		1	WG2474821
1,4-Dichlorobenzene	106-46-7	147	0.462	1.20	U		1	WG2474821
1,2-Dichloroethane	107-06-2	99	0.296	0.810	U		1	WG2474821
1,1-Dichloroethane	75-34-3	98	0.285	0.802	U		1	WG2474821
1,1-Dichloroethene	75-35-4	96.90	0.296	0.793	U		1	WG2474821
cis-1,2-Dichloroethene	156-59-2	96.90	0.315	0.793	U		1	WG2474821
trans-1,2-Dichloroethene	156-60-5	96.90	0.291	0.793	U		1	WG2474821
1,2-Dichloropropane	78-87-5	113	0.348	0.924	U		1	WG2474821
cis-1,3-Dichloropropene	10061-01-5	111	0.337	0.908	U		1	WG2474821
trans-1,3-Dichloropropene	10061-02-6	111	0.361	0.908	U		1	<u>WG2474821</u>
1,4-Dioxane	123-91-1	88.10	0.591	2.27	U		1	<u>WG2474821</u>
Ethanol	64-17-5	46.10	4.47	4.71	32.6		1	<u>WG2474821</u>
Ethylbenzene	100-41-4	106	0.337	0.867	9.02		1	<u>WG2474821</u>
4-Ethyltoluene	622-96-8	120	0.435	0.982	8.29		1	<u>WG2474821</u>
Trichlorofluoromethane	75-69-4	137.40	0.433	1.12	1.37		1	WG2474821
Dichlorodifluoromethane	75-71-8	120.92	0.399	0.989	1.48		1	WG2474821
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.576	1.53	U		1	WG2474821
1,2-Dichlorotetrafluoroethane		171	0.529	1.40	U		1	WG2474821
Heptane	142-82-5	100	0.466	0.818	6.42		1	WG2474821
Hexachloro-1,3-butadiene	87-68-3	261	0.854	6.73	U		1	WG2474821
n-Hexane	110-54-3	86.20	0.504	2.22	3.77		1	WG2474821
Isopropylbenzene	98-82-8	120.20	0.355	0.983	0.728	<u>J</u>	1	WG2474821
Methylene Chloride	75-09-2	84.90	0.587	0.694	1.26		1	WG2474821
Methyl Butyl Ketone	591-78-6	100	0.544	5.11	0.695	<u>J</u>	1	WG2474821
2-Butanone (MEK)	78-93-3	72.10	0.342	3.69	21.6		1	WG2474821
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.434	5.12	1.28	<u>J</u>	1	WG2474821
Methyl methacrylate	80-62-6	100.12	0.692	0.819	0.692	<u>J</u>	1	WG2474821
MTBE	1634-04-4	88.10	0.293	0.721	U		1	WG2474821
Naphthalene	91-20-3	128	3.23	3.30	U		1	WG2474821
2-Propanol	67-63-0	60.10	1.67	3.07	U		1	WG2474821
Propene	115-07-1	42.10	0.368	2.15	2.29		1	WG2474821
Styrene	100-42-5	104	0.341	1.70	U		1	WG2474821
1,1,2,2-Tetrachloroethane	79-34-5	168	0.478	1.37	U		1	WG2474821
Tetrachloroethylene	127-18-4	166	0.754	1.36	U		1	WG2474821
•		70.40		0.500			4	
Tetrahydrofuran	109-99-9	72.10	0.484	0.590	U		1	WG2474821

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Collected date/time: 03/18/25 10:23

Volatile Organic Compounds (MS) by Method TO-15

	CAS #	Mol. Wt.	MDL	RDL	Result	Qualifier	Dilution	Batch
Analyte			ug/m3	ug/m3	ug/m3			
1,2,4-Trichlorobenzene	120-82-1	181	3.42	4.66	U		1	WG2474821
1,1,1-Trichloroethane	71-55-6	133	0.391	1.09	U		1	WG2474821
1,1,2-Trichloroethane	79-00-5	133	0.372	1.09	U		1	WG2474821
Trichloroethylene	79-01-6	131	0.364	1.07	U		1	WG2474821
1,2,4-Trimethylbenzene	95-63-6	120	0.455	0.982	8.54		1	WG2474821
1,3,5-Trimethylbenzene	108-67-8	120	0.419	0.982	3.00		1	WG2474821
2,2,4-Trimethylpentane	540-84-1	114.22	0.420	0.934	2.52		1	WG2474821
Vinyl chloride	75-01-4	62.50	0.211	0.511	U		1	WG2474821
Vinyl Bromide	593-60-2	106.95	0.328	0.875	U		1	WG2474821
Vinyl acetate	108-05-4	86.10	0.341	2.22	U		1	WG2474821
m&p-Xylene		106	0.754	1.73	37.1		1	WG2474821
o-Xylene	95-47-6	106	0.385	0.867	13.2		1	WG2474821
(S) 1,4-Bromofluorobenzene	460-00-4	175			96.4		60.0-140	WG2474821



















L1837811-01,02,03

Volatile Organic Compounds (MS) by Method TO-15

Method Blank (MB)

(MB) R4190280-3 03/23/2					
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ug/m3		ug/m3	ug/m3	
TPH (GC/MS) Low Fraction	U		282	826	
Acetone	U		1.24	2.97	
Allyl chloride	U		0.582	0.626	
Benzene	U		0.351	0.639	
Benzyl Chloride	U		0.461	1.04	
Bromodichloromethane	U		0.466	1.34	
Bromoform	U		0.781	6.52	
Bromomethane	U		0.364	0.776	
1,3-Butadiene	U		0.350	4.43	
Carbon disulfide	U		0.498	1.24	
Carbon tetrachloride	U		0.470	1.26	
Chlorobenzene	U		0.545	0.924	
Chloroethane	U		0.290	0.528	
Chloroform	U		0.506	0.973	
Chloromethane	U		0.227	0.413	
2-Chlorotoluene	U		0.406	1.03	
Cyclohexane	U		0.585	0.689	
Dibromochloromethane	U		0.592	1.70	
1,2-Dibromoethane	U		0.531	1.54	
1,2-Dichlorobenzene	U		0.441	1.20	
1,3-Dichlorobenzene	U		0.453	1.20	
1,4-Dichlorobenzene	U		0.462	1.20	
1,2-Dichloroethane	U		0.296	0.810	
1,1-Dichloroethane	U		0.285	0.802	
1,1-Dichloroethene	U		0.296	0.793	
cis-1,2-Dichloroethene	U		0.315	0.793	
trans-1,2-Dichloroethene	U		0.291	0.793	
1,2-Dichloropropane	U		0.348	0.924	
cis-1,3-Dichloropropene	U		0.337	0.908	
trans-1,3-Dichloropropene	U		0.361	0.908	
1,4-Dioxane	U		0.591	2.27	
Ethanol	U		4.47	4.71	
Ethylbenzene	U		0.337	0.867	
4-Ethyltoluene	U		0.435	0.982	
Trichlorofluoromethane	U		0.433	1.12	
Dichlorodifluoromethane	U		0.399	0.989	
1,1,2-Trichlorotrifluoroethane	U		0.576	1.53	
1,2-Dichlorotetrafluoroethane	U		0.529	1.40	
Heptane	U		0.466	0.818	
Hexachloro-1,3-butadiene	U		0.854	6.73	

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QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1837811-01,02,03

Method Blank (MB)

(MB) R4190280-3 03/23/2	25 10:30				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ug/m3		ug/m3	ug/m3	
n-Hexane	U		0.504	2.22	
Isopropylbenzene	U		0.355	0.983	
Methylene Chloride	U		0.587	0.694	
Methyl Butyl Ketone	U		0.544	5.11	
2-Butanone (MEK)	U		0.342	3.69	
4-Methyl-2-pentanone (MIBK)	U		0.434	5.12	
Methyl methacrylate	U		0.692	0.819	
MTBE	U		0.293	0.721	
Naphthalene	U		3.23	3.30	
2-Propanol	U		1.67	3.07	
Propene	U		0.368	2.15	
Styrene	U		0.341	1.70	
1,1,2,2-Tetrachloroethane	U		0.478	1.37	
Tetrachloroethylene	U		0.754	1.36	
Tetrahydrofuran	U		0.484	0.590	
Toluene	U		0.490	1.88	
1,2,4-Trichlorobenzene	U		3.42	4.66	
1,1,1-Trichloroethane	U		0.391	1.09	
1,1,2-Trichloroethane	U		0.372	1.09	
Trichloroethylene	U		0.364	1.07	
1,2,4-Trimethylbenzene	U		0.455	0.982	
1,3,5-Trimethylbenzene	U		0.419	0.982	
2,2,4-Trimethylpentane	U		0.420	0.934	
/inyl chloride	U		0.211	0.511	
Jinyl Bromide	U		0.328	0.875	
/inyl acetate	U		0.341	2.22	
m&p-Xylene	U		0.754	1.73	
o-Xylene	U		0.385	0.867	
(S) 1,4-Bromofluorobenzene	97.2			60.0-140	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/m3	ug/m3	ug/m3	%	%	%			%	%
TPH (GC/MS) Low Fraction	777	830	826	107	106	70.0-130		<u>J</u>	0.499	25
Acetone	8.91	9.46	9.65	106	108	70.0-130			1.99	25
Allyl chloride	11.7	14.7	11.9	125	102	70.0-130			20.7	25
Benzene	12.0	14.0	14.1	117	117	70.0-130			0.684	25

Volatile Organic Compounds (MS) by Method TO-15

L1837811-01,02,03

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4190280-1 03/23/2	25 09:07 • (LCS	SD) R4190280-	2 03/23/25 09	9:49						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/m3	ug/m3	ug/m3	%	%	%			%	%
Benzyl Chloride	19.5	23.9	24.5	123	126	70.0-152			2.15	25
Bromodichloromethane	25.2	28.8	29.1	115	116	70.0-130			0.926	25
Bromoform	38.8	42.9	43.8	111	113	70.0-130			1.91	25
Bromomethane	14.6	16.3	17.2	112	118	70.0-130			5.32	25
1,3-Butadiene	8.30	8.92	9.12	107	110	70.0-130			2.21	25
Carbon disulfide	23.3	27.7	27.9	119	120	70.0-130			0.896	25
Carbon tetrachloride	23.6	27.1	27.0	115	114	70.0-130			0.233	25
Chlorobenzene	17.3	20.2	20.4	117	118	70.0-130			0.911	25
Chloroethane	9.89	11.4	12.0	115	121	70.0-130			5.20	25
Chloroform	18.3	20.8	21.0	114	115	70.0-130			1.16	25
Chloromethane	7.75	8.67	8.65	112	112	70.0-130			0.238	25
2-Chlorotoluene	19.3	23.2	23.6	120	122	70.0-130			1.32	25
Cyclohexane	12.9	14.7	14.8	114	115	70.0-130			0.932	25
Dibromochloromethane	31.9	36.5	36.6	114	115	70.0-130			0.233	25
1,2-Dibromoethane	28.8	32.8	33.2	114	115	70.0-130			1.16	25
1,2-Dichlorobenzene	22.5	27.0	27.2	120	121	70.0-130			0.887	25
1,3-Dichlorobenzene	22.5	26.9	27.2	119	121	70.0-130			1.11	25
1,4-Dichlorobenzene	22.5	27.7	28.0	123	124	70.0-130			0.864	25
1,2-Dichloroethane	15.2	17.3	17.6	114	116	70.0-130			1.63	25
1,1-Dichloroethane	15.0	17.3	17.5	115	116	70.0-130			0.922	25
1,1-Dichloroethene	14.9	16.6	17.3	112	117	70.0-130			3.97	25
cis-1,2-Dichloroethene	14.9	17.0	17.1	114	115	70.0-130			0.465	25
trans-1,2-Dichloroethene	14.9	17.1	16.9	115	114	70.0-130			0.932	25
1,2-Dichloropropane	17.3	19.9	20.1	115	116	70.0-130			0.924	25
cis-1,3-Dichloropropene	17.0	18.9	19.1	111	112	70.0-130			0.955	25
trans-1,3-Dichloropropene	17.0	18.6	18.7	109	110	70.0-130			0.731	25
1,4-Dioxane	13.5	15.5	16.0	115	118	70.0-140			2.97	25
Ethanol	7.07	7.75	7.92	110	112	55.0-148			2.17	25
Ethylbenzene	16.3	19.0	19.2	117	118	70.0-130			0.907	25
4-Ethyltoluene	18.4	22.0	22.6	120	123	70.0-130			2.42	25
Trichlorofluoromethane	21.1	24.5	25.3	116	120	70.0-130			3.38	25
Dichlorodifluoromethane	18.5	16.7	17.1	90.1	92.0	64.0-139			2.05	25
1,1,2-Trichlorotrifluoroethane	28.7	33.4	32.3	116	113	70.0-130			3.26	25
1,2-Dichlorotetrafluoroethane	26.2	29.0	29.4	111	112	70.0-130			1.44	25
Heptane	15.3	18.1	18.0	118	117	70.0-130			0.454	25
Hexachloro-1,3-butadiene	40.0	48.8	48.7	122	122	70.0-151			0.219	25
n-Hexane	13.2	15.2	15.2	115	115	70.0-130			0.000	25
Isopropylbenzene	18.4	22.1	22.3	120	121	70.0-130			1.11	25
Methylene Chloride	13.0	14.4	14.7	111	113	70.0-130			1.67	25
Methyl Butyl Ketone	15.3	17.6	17.8	115	116	70.0-149			1.15	25



















Volatile Organic Compounds (MS) by Method TO-15

L1837811-01,02,03

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4190280-1 03/23/25 09:07 • (LCSD) R4190280-2 03/23/25 09:49

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ug/m3	ug/m3	ug/m3	%	%	%			%	%	
2-Butanone (MEK)	11.1	12.4	12.3	112	111	70.0-130			0.239	25	
4-Methyl-2-pentanone (MIBK)	15.4	17.7	17.9	115	117	70.0-139			1.15	25	3
Methyl methacrylate	15.4	16.3	16.7	106	109	70.0-130			2.48	25	
MTBE	13.5	15.2	15.5	113	115	70.0-130			1.64	25	4
Naphthalene	19.6	24.7	25.0	126	127	70.0-159			1.05	25	
2-Propanol	9.22	9.68	9.88	105	107	70.0-139			2.01	25	<u> </u>
Propene	6.46	7.13	7.13	110	110	64.0-144			0.000	25	
Styrene	31.9	40.1	40.6	126	127	70.0-130			1.37	25	
1,1,2,2-Tetrachloroethane	25.8	30.2	30.6	117	119	70.0-130			1.58	25	6
Tetrachloroethylene	25.5	28.9	29.3	114	115	70.0-130			1.40	25	
Tetrahydrofuran	11.1	12.2	12.3	110	111	70.0-137			0.724	25	
Toluene	14.1	16.4	16.5	116	117	70.0-130			0.686	25	7
1,2,4-Trichlorobenzene	27.8	34.1	33.7	123	121	70.0-160			1.31	25	
1,1,1-Trichloroethane	20.4	23.0	23.2	113	114	70.0-130			0.943	25	8
1,1,2-Trichloroethane	20.4	23.3	23.6	114	116	70.0-130			1.16	25	
Trichloroethylene	20.1	22.7	22.9	113	114	70.0-130			0.941	25	
1,2,4-Trimethylbenzene	18.4	22.4	22.6	122	123	70.0-130			0.873	25	
1,3,5-Trimethylbenzene	18.4	22.7	23.1	123	126	70.0-130			1.93	25	L
2,2,4-Trimethylpentane	17.5	20.1	20.4	115	116	70.0-130			1.39	25	
Vinyl chloride	9.59	10.9	11.0	113	115	70.0-130			1.63	25	
Vinyl Bromide	16.4	18.7	19.9	114	121	70.0-130			5.90	25	
Vinyl acetate	13.2	10.8	11.2	81.6	85.1	70.0-130			4.16	25	
m&p-Xylene	32.5	38.9	39.4	120	121	70.0-130			1.22	25	
o-Xylene	16.3	19.2	19.6	118	120	70.0-130			1.79	25	

60.0-140



















(S) 1,4-Bromofluorobenzene

97.4

97.5

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Appleviations an	d Definitions
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The identification of the analyte is acceptable; the reported value is an estimate.











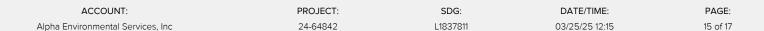












ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
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Colorado	TN00003	New York	11742
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Kentucky ²	16	South Dakota	n/a
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A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto



















 $^{^* \, \}text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$

Pace* Location Requested (City/State):	34	Chain-of-Cu	CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields						LAB USE ONLY- Affix Workorder/Login Label Her					M015			
Company Name: Alpha Environmental Services, Inc			t To: Jim C													6	-13
Street Address: 11080 SW Allen Blvd.			03-292-53 @alphaenvir		et		- 1			Scan QR code for it				nstructions			
City, State Zip:		Cc E-Mail:							识人称自	380							
Customer Project #: 24-64842 7 4 - [3060		Invoice to:															
Customer Project #: 24-64842 24-63060 Project Name: 3939 NW St Helens	RI	Invoice E-Mail:											Ar	nalyses I	Reques	ted	DAR 3.11.25
Site Collection Info/Facility ID (as applicable):		Purchase Ord	ler#(if applical	ble):				1	er. 1.1	11.6					neques		Proj. Manager:
ALPHAENVBOR-AIR		Quote #:							Field	Information	ormation						942 - Jordan N Zito
Time Zone Collected: [] AK [FT [] MT [] CT [] ET		State origin of sample(s):														AcctNum / Client ID:	
Data Deliverables:	Regulatory Prog applicable:	gram (CAA, RCR	A, etc.) as					Ca	nister				1				ALPHAENVBO
[]LevelII []LevelIII []LevelIV	Rush (Pre-appro 2 Day 3 day 5			Permit # as applicable:			Pressure / Vacuum		PUF / FILTER						Lab Use Only		
[] EQUIS	Date Results Requested:			Units for Reporting:	ug/m³ PPI	BV mg/m³	PPMV				E(Total	Summa				Profile / Template: T241894
* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I),		ther (O)						Start Pressure /	End Pressure	Duration	Flow	Total Volume	Sur	CS	+		Prelog / Bottle Ord. ID: P1137708
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Customer Sample ID	Matrix *	Canister ID	ID	Date	Time	Date	Time	(in Hg)	(in Hg)	(minutes)	m³/min or L/min	1 45 55	TO-15	2	1-	†	Samula Camana
553	SU	24005	20899	3/19	10:07	3/19	10:06	28	4	3	Or Littin	III OI L	K	7	Q		Sample Comment 46378[1-6]
554	50	19140	22/180	3/19	10:15	3/19	10:16	78	5	(0	X	Q		0/02/01/01
555	50		21755	1	(0.23		-	30	5	2			ê	X	Q		63
COC Seal Present/Intact: Y N NE COC Signed/Accurate: Y N Bottles arrive intact: Y N Correct bottles used: Y N Unused:	Size: 3 Tage Color	Airs 1L61 : G W_															
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Customer Remarks / Special Conditions / Possible Hazards:				Collected By:						Additional	Instruction	ns from Pac	e*;		لـــا		
				Printed Nan Signature:			-			# Coolers:		Thermometer	ID:		Correctio	n	Obs. Jemp. ("C): Corrected Temp. ("C):
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Relinquished by/Company: (Signature)	D	ate/Time:	/Time: Reprivedby/Company/Signature)					1		Date/Time3/19 CGOO Page: 1 of:]				<u> </u>			



Pace Analytical® ANALYTICAL REPORT

January 02, 2025

Alpha Environmental Services, Inc

L1812794 Sample Delivery Group:

Samples Received: 12/26/2024

Project Number: 24-63060

Description: 3939 NW St. Helens Rd.

Report To: Jim Cooper

11080 SW Allen Blvd.

Ss

Cn

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[°]Qc

Gl

Αl

Sc

1 of 18

Suite 100

Beaverton, OR 97005

Entire Report Reviewed By:

Jordan N Zito

Project Manager Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received. Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

			Collected by	Collected date/time	Received da	te/time
SS1 L1812794-01 Air				12/23/24 13:30	12/26/24 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2424998	1	12/27/24 00:13	12/27/24 00:13	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2426811	100	12/31/24 17:16	12/31/24 17:16	ED	Mt. Juliet, TN
SS2 L1812794-02 Air			Collected by	Collected date/time 12/23/24 13:44	Received da 12/26/24 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2424998	1	12/27/24 00:54	12/27/24 00:54	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2426811	5	12/31/24 16:46	12/31/24 16:46	ED	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SS3 L1812794-03 Air				12/23/24 13:51	12/26/24 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method TO-15	WG2424998	1	12/27/24 01:34	12/27/24 01:34	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2426811	20	12/31/24 17:44	12/31/24 17:44	ED	Mt. Juliet, TN



















CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

¹Cp

















Jordan N Zito Project Manager Collected date/time: 12/23/24 13:30

SAMPLE RESULTS - 01

L1812794

Volatile Organic C	ompound	ls (MS) b	y Methoc	I TO-15				
Analyte	CAS#	Mol. Wt.	MDL ug/m3	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
TPH (GC/MS) Low Fraction	8006-61-9	101	28200	82600	48700	<u> </u>	100	WG2426811
Acetone	67-64-1	58.10	124	297	27600	<u>J</u>	100	WG2426811 WG2426811
	107-05-1	76.53	0.582	0.626	27600 U	<u>E</u>	1	
Allyl chloride								WG2424998
Benzene Benzel Chlorida	71-43-2	78.10	0.351	0.639	17.0		1	WG2424998
Benzyl Chloride	100-44-7	127	0.461	1.04	U		1	WG2424998
Bromodichloromethane	75-27-4	164	0.466	1.34	U		1	WG2424998
Bromoform	75-25-2	253	0.781	6.52	U		1	WG2424998
Bromomethane	74-83-9	94.90	0.364	0.776	U		1	WG2424998
1,3-Butadiene	106-99-0	54.10	0.350	4.43	U		1	WG2424998
Carbon disulfide	75-15-0	76.10	0.498	1.24	U		1	WG2424998
Carbon tetrachloride	56-23-5	154	0.470	1.26	U		1	WG2424998
Chlorobenzene	108-90-7	113	0.545	0.924	U		1	WG2424998
Chloroethane	75-00-3	64.50	0.290	0.528	U		1	WG2424998
Chloroform	67-66-3	119	0.506	0.973	U		1	WG2424998
Chloromethane	74-87-3	50.50	0.227	0.413	U		1	WG2424998
2-Chlorotoluene	95-49-8	126	0.406	1.03	U		1	WG2424998
Cyclohexane	110-82-7	84.20	0.585	0.689	272		1	WG2424998
Dibromochloromethane	124-48-1	208	0.592	1.70	U		1	WG2424998
1,2-Dibromoethane	106-93-4	188	0.532	1.54	U		1	WG2424998
1,2-Dichlorobenzene	95-50-1	147	0.331	1.20	U		1	WG2424998
1,3-Dichlorobenzene	541-73-1	147	0.453	1.20	U		1	WG2424998
,							1	
1,4-Dichlorobenzene	106-46-7	147	0.462	1.20	U			WG2424998
1,2-Dichloroethane	107-06-2	99	0.296	0.810	U		1	WG2424998
1,1-Dichloroethane	75-34-3	98	0.285	0.802	U		1	WG2424998
1,1-Dichloroethene	75-35-4	96.90	0.296	0.793	U		1	WG2424998
cis-1,2-Dichloroethene	156-59-2	96.90	0.315	0.793	U		1	WG2424998
trans-1,2-Dichloroethene	156-60-5	96.90	0.291	0.793	U		1	WG2424998
1,2-Dichloropropane	78-87-5	113	0.348	0.924	U		1	WG2424998
cis-1,3-Dichloropropene	10061-01-5	111	0.337	0.908	U		1	WG2424998
trans-1,3-Dichloropropene	10061-02-6	111	0.361	0.908	U		1	WG2424998
1,4-Dioxane	123-91-1	88.10	0.591	2.27	U		1	WG2424998
Ethanol	64-17-5	46.10	4.47	4.71	924	<u>E</u>	1	WG2424998
Ethylbenzene	100-41-4	106	0.337	0.867	49.9		1	WG2424998
4-Ethyltoluene	622-96-8	120	0.435	0.982	19.3		1	WG2424998
Trichlorofluoromethane	75-69-4	137.40	0.433	1.12	1.38		1	WG2424998
Dichlorodifluoromethane	75-71-8	120.92	0.399	0.989	2.77		1	WG2424998
1,1,2-Trichlorotrifluoroethane		187.40	0.576	1.53	U		1	WG2424998
1.2-Dichlorotetrafluoroethane		171	0.529	1.40	U		1	WG2424998
Heptane	142-82-5	100	46.6	81.8	438		100	WG2426811
Hexachloro-1,3-butadiene	87-68-3	261	0.854	6.73	436 U		1	WG2424998
n-Hexane	110-54-3		50.4	222	32300			
		86.20					100	WG2426811
Isopropylbenzene	98-82-8	120.20	0.355	0.983	U		1	WG2424998
Methylene Chloride	75-09-2	84.90	0.587	0.694	U		1	WG2424998
Methyl Butyl Ketone	591-78-6	100	0.544	5.11	U		1	WG2424998
2-Butanone (MEK)	78-93-3	72.10	34.2	369	425		100	WG2426811
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.434	5.12	U		1	WG2424998
Methyl methacrylate	80-62-6	100.12	0.692	0.819	U		1	WG2424998
MTBE	1634-04-4	88.10	0.293	0.721	U		1	WG2424998
Naphthalene	91-20-3	128	3.23	3.30	U		1	WG2424998
2-Propanol	67-63-0	60.10	1.67	3.07	1840	<u>E</u>	1	WG2424998
Propene	115-07-1	42.10	0.368	2.15	U		1	WG2424998
Styrene	100-42-5	104	0.341	1.70	U		1	WG2424998
1,1,2,2-Tetrachloroethane	79-34-5	168	0.478	1.37	U		1	WG2424998
Tetrachloroethylene	127-18-4	166	0.754	1.36	U		1	WG2424998
Tetrahydrofuran	109-99-9	72.10	0.484	0.590	U		1	WG2424998
Toluene	108-88-3	92.10	0.490	1.88	22.9		1	WG2424998
· J.uciic	100 00 0	JZ.10	0.100	1.00	22.3			02 12 1000















PAGE: 5 of 18

Collected date/time: 12/23/24 13:30

L1812794

Volatile Organic Compounds (MS) by Method TO-15

	CAS #	Mol. Wt.	MDL	RDL	Result	Qualifier	Dilution	Batch
Analyte			ug/m3	ug/m3	ug/m3			_
1,2,4-Trichlorobenzene	120-82-1	181	3.42	4.66	U		1	WG2424998
1,1,1-Trichloroethane	71-55-6	133	0.391	1.09	U		1	WG2424998
1,1,2-Trichloroethane	79-00-5	133	0.372	1.09	U		1	WG2424998
Trichloroethylene	79-01-6	131	0.364	1.07	U		1	WG2424998
1,2,4-Trimethylbenzene	95-63-6	120	0.455	0.982	15.6		1	WG2424998
1,3,5-Trimethylbenzene	108-67-8	120	0.419	0.982	5.50		1	WG2424998
2,2,4-Trimethylpentane	540-84-1	114.22	0.420	0.934	U		1	WG2424998
Vinyl chloride	75-01-4	62.50	0.211	0.511	U		1	WG2424998
Vinyl Bromide	593-60-2	106.95	0.328	0.875	U		1	WG2424998
Vinyl acetate	108-05-4	86.10	0.341	2.22	U		1	WG2424998
m&p-Xylene	179601-23-1	106	0.754	1.73	186		1	WG2424998
o-Xylene	95-47-6	106	0.385	0.867	64.2		1	WG2424998
(S) 1,4-Bromofluorobenzene	460-00-4	175			150	<u>J1</u>	60.0-140	WG2424998
(S) 1.4-Bromofluorobenzene	460-00-4	175			96.2		60.0-140	WG2426811



'Sc

Gl

Ss

Cn

Sample Narrative:

L1812794-01 WG2424998: Surrogate failure due to matrix interference

Collected date/time: 12/23/24 13:44

SAMPLE RESULTS - 02

L1812794

Volatile Organic Compounds (MS) by Method TO-15

Volatile Organic C	-		-		. .	6 1/-	D	D. I
Analyto	CAS#	Mol. Wt.	MDL ug/m3	RDL ug/m3	Result ug/m3	Qualifier	Dilution	Batch
Analyte	0000 01 0	101					1	WC2424000
TPH (GC/MS) Low Fraction	8006-61-9	101	282	826	2470	Г	1	WG2424998
Acetone	67-64-1	58.10	1.24	2.97	1380	<u>E</u>	1	WG2424998
Allyl chloride	107-05-1	76.53	0.582	0.626	U 2.26		1	WG2424998
Benzene Benzyl Chloride	71-43-2	78.10	0.351	0.639	2.26			WG2424998
	100-44-7	127	0.461	1.04 1.34	U U		1	WG2424998
Bromodichloromethane Promoform	75-27-4 75-25-2	164 253	0.466 0.781	6.52				WG2424998
Bromoform Bromomethane	74-83-9	94.90	0.761	0.52	U		1	WG2424998 WG2424998
1,3-Butadiene	106-99-0	54.90	0.350	4.43	U		1	WG2424998
Carbon disulfide	75-15-0	76.10	0.330	1.24	U		1	WG2424998
Carbon distinde Carbon tetrachloride	56-23-5	154	0.498	1.24	U		1	WG2424998
Chlorobenzene	108-90-7	113	0.545	0.924	U		1	WG2424998
Chloroethane	75-00-3	64.50	0.290	0.528	U		1	WG2424998
Chloroform	67-66-3	119	0.506	0.973	U		1	WG2424998
Chloromethane	74-87-3	50.50	0.300	0.973	U		1	WG2424998
	95-49-8		0.406	1.03	U		1	
2-Chlorotoluene	95- 4 9-8 110-82-7	126		0.689	4.34		1	WG2424998 WG2424998
Cyclohexane	124-48-1	84.20 208	0.585	1.70			1	WG2424998 WG2424998
Dibromochloromethane 1,2-Dibromoethane	124-48-1	188	0.592 0.531	1.70	U U		1	WG2424998 WG2424998
							1	
1,2-Dichlorobenzene	95-50-1	147	0.441	1.20	U			WG2424998
1,3-Dichlorobenzene	541-73-1	147	0.453	1.20	U		1	WG2424998
1,4-Dichlorobenzene	106-46-7	147	0.462	1.20	U		1	WG2424998
1,2-Dichloroethane	107-06-2	99	0.296	0.810	U		1	WG2424998
1,1-Dichloroethane	75-34-3	98	0.285	0.802	U		1	WG2424998
1,1-Dichloroethene	75-35-4	96.90	0.296	0.793	U		1	WG2424998
cis-1,2-Dichloroethene	156-59-2	96.90	0.315	0.793	U		1	WG2424998
trans-1,2-Dichloroethene	156-60-5	96.90	0.291	0.793	U		1	WG2424998
1,2-Dichloropropane	78-87-5	113	0.348	0.924	U		1	WG2424998
cis-1,3-Dichloropropene	10061-01-5	111	0.337	0.908	U		1	WG2424998
trans-1,3-Dichloropropene	10061-02-6	111	0.361	0.908	U		1	WG2424998
1,4-Dioxane	123-91-1	88.10	0.591	2.27	U		1	WG2424998
Ethanol	64-17-5	46.10	4.47	4.71	46.0		1	WG2424998
Ethylbenzene	100-41-4	106	0.337	0.867	3.56		1	WG2424998
4-Ethyltoluene	622-96-8	120	0.435	0.982	4.54		1	WG2424998
Trichlorofluoromethane	75-69-4	137.40	0.433	1.12	2.48		1	WG2424998
Dichlorodifluoromethane	75-71-8	120.92	0.399	0.989	2.61		1	WG2424998
1,1,2-Trichlorotrifluoroethane		187.40	0.576	1.53	0.642	ī	1	WG2424998
1,2-Dichlorotetrafluoroethane		171	0.529	1.40	U 0.10		1	WG2424998
Heptane	142-82-5	100	2.33	4.09	8.18		5	WG2426811
Hexachloro-1,3-butadiene	87-68-3	261	0.854	6.73	U		1	WG2424998
n-Hexane	110-54-3	86.20	2.52	11.1	367		5	WG2426811
Isopropylbenzene	98-82-8	120.20	0.355	0.983	U		1	WG2424998
Methylene Chloride	75-09-2	84.90	0.587	0.694	U		1	WG2424998
Methyl Butyl Ketone	591-78-6	100	0.544	5.11	U 10.0		1	WG2424998
2-Butanone (MEK)	78-93-3	72.10	1.71	18.4	19.0		5	WG2426811
4-Methyl-2-pentanone (MIBK)		100.10	0.434	5.12	U		1	WG2424998
Methyl methacrylate	80-62-6	100.12	0.692	0.819	U		1	WG2424998
MTBE	1634-04-4	88.10	0.293	0.721	U		1	WG2424998
Naphthalene	91-20-3	128	3.23	3.30	U	_	1	WG2424998
2-Propanol	67-63-0	60.10	1.67	3.07	693	<u>E</u>	1	WG2424998
Propene	115-07-1	42.10	0.368	2.15	U		1	WG2424998
Styrene	100-42-5	104	0.341	1.70	U		1	WG2424998
1,1,2,2-Tetrachloroethane	79-34-5	168	0.478	1.37	U		1	WG2424998
Tetrachloroethylene	127-18-4	166	0.754	1.36	U		1	WG2424998
Tetrahydrofuran	109-99-9	72.10	0.484	0.590	U		1	WG2424998
Toluene	108-88-3	92.10	0.490	1.88	4.48		1	WG2424998

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Collected date/time: 12/23/24 13:44

Volatile Organic Compounds (MS) by Method TO-15

Mol. Wt.	MDL ug/m3	RDL ug/m3	Result	Qualifier	Dilution	Batch
101	ug/m3	ua/m2				
191		ug/III3	ug/m3			
101	3.42	4.66	U		1	WG2424998
133	0.391	1.09	U		1	WG2424998
133	0.372	1.09	U		1	WG2424998
131	0.364	1.07	U		1	WG2424998
120	0.455	0.982	5.89		1	WG2424998
120	0.419	0.982	2.04		1	WG2424998
114.22	0.420	0.934	U		1	WG2424998
62.50	0.211	0.511	U		1	WG2424998
106.95	0.328	0.875	U		1	WG2424998
86.10	0.341	2.22	U		1	WG2424998
106	0.754	1.73	14.3		1	WG2424998
106	0.385	0.867	5.90		1	WG2424998
175			102		60.0-140	WG2424998
175			99.5		60.0-140	WG2426811
	131 120 120 114.22 62.50 106.95 86.10 106 106	131 0.364 120 0.455 120 0.419 114.22 0.420 62.50 0.211 106.95 0.328 86.10 0.341 106 0.754 106 0.385	131 0.364 1.07 120 0.455 0.982 120 0.419 0.982 114.22 0.420 0.934 62.50 0.211 0.511 106.95 0.328 0.875 86.10 0.341 2.22 106 0.754 1.73 106 0.385 0.867 175	131 0.364 1.07 U 120 0.455 0.982 5.89 120 0.419 0.982 2.04 114.22 0.420 0.934 U 62.50 0.211 0.511 U 106.95 0.328 0.875 U 86.10 0.341 2.22 U 106 0.754 1.73 14.3 106 0.385 0.867 5.90 175 102	131 0.364 1.07 U 120 0.455 0.982 5.89 120 0.419 0.982 2.04 114.22 0.420 0.934 U 62.50 0.211 0.511 U 106.95 0.328 0.875 U 86.10 0.341 2.22 U 106 0.754 1.73 14.3 106 0.385 0.867 5.90 175 102	131 0.364 1.07 U 1 120 0.455 0.982 5.89 1 120 0.419 0.982 2.04 1 114.22 0.420 0.934 U 1 62.50 0.211 0.511 U 1 106.95 0.328 0.875 U 1 86.10 0.341 2.22 U 1 106 0.754 1.73 14.3 1 106 0.385 0.867 5.90 1 175 102 60.0-140





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Collected date/time: 12/23/24 13:51

SAMPLE RESULTS - 03

L1812794

Volatile Organic C	•		-					
Analyte	CAS #	Mol. Wt.	MDL ug/m3	RDL ug/m3	Result ug/m3	Qualifier	Dilution	<u>Batch</u>
TPH (GC/MS) Low Fraction	8006-61-9	101	282	826	U		1	WG2424998
Acetone	67-64-1	58.10	1.24	2.97	383	<u>E</u>	1	WG2424998
Allyl chloride	107-05-1	76.53	0.582	0.626	U	=	1	WG2424998
Benzene	71-43-2	78.10	0.351	0.639	0.760		1	WG2424998
Benzyl Chloride	100-44-7	127	0.461	1.04	U.700		1	WG2424998
Bromodichloromethane	75-27-4	164	0.466	1.34	U		1	WG2424998
Bromoform	75-25-2	253	0.781	6.52	U		1	WG2424998
Bromomethane	74-83-9	94.90	0.364	0.776	U		1	WG2424998
1,3-Butadiene	106-99-0	54.10	0.350	4.43	U		1	WG2424998
Carbon disulfide	75-15-0	76.10	0.498	1.24	U		1	WG2424998
Carbon tetrachloride	56-23-5	154	0.470	1.26	U		1	WG2424998
Chlorobenzene	108-90-7	113	0.545	0.924	U		1	WG2424998
Chloroethane	75-00-3	64.50	0.290	0.528	U		1	WG2424998
Chloroform	67-66-3	119	0.506	0.973	U		1	WG2424998
Chloromethane	74-87-3	50.50	0.227	0.413	U		1	WG2424998
2-Chlorotoluene	95-49-8	126	0.406	1.03	U		1	WG2424998
Cyclohexane	110-82-7	84.20	0.585	0.689	U		1	WG2424998
Dibromochloromethane	124-48-1	208	0.592	1.70	U		1	WG2424998
1,2-Dibromoethane	106-93-4	188	0.531	1.54	U		1	WG2424998
1,2-Dichlorobenzene	95-50-1	147	0.441	1.20	U		1	WG2424998
1,3-Dichlorobenzene	541-73-1	147	0.453	1.20	U		1	WG2424998
1,4-Dichlorobenzene	106-46-7	147	0.462	1.20	U		1	WG2424998
1,2-Dichloroethane	107-06-2	99	0.296	0.810	U		1	WG2424998
1,1-Dichloroethane	75-34-3	98	0.285	0.802	U		1	WG2424998
1,1-Dichloroethene	75-35-4	96.90	0.296	0.793	U		1	WG2424998
cis-1,2-Dichloroethene	156-59-2	96.90	0.315	0.793	U		1	WG2424998
trans-1,2-Dichloroethene	156-60-5	96.90	0.291	0.793	U		1	WG2424998
1,2-Dichloropropane	78-87-5	113	0.348	0.924	U		1	WG2424998
cis-1,3-Dichloropropene	10061-01-5	111	0.337	0.908	U		1	WG2424998
trans-1,3-Dichloropropene	10061-02-6	111	0.361	0.908	U		1	WG2424998
1,4-Dioxane	123-91-1	88.10	0.591	2.27	U		1	WG2424998
Ethanol	64-17-5	46.10	4.47	4.71	47.3		1	WG2424998
Ethylbenzene	100-41-4	106	0.337	0.867	1.79		1	WG2424998
4-Ethyltoluene	622-96-8	120	0.435	0.982	5.35		1	WG2424998
Trichlorofluoromethane	75-69-4	137.40	0.433	1.12	1.43		1	WG2424998
Dichlorodifluoromethane	75-71-8	120.92	0.399	0.989	2.74		1	WG2424998
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.576	1.53	U		1	WG2424998
$\hbox{1,2-Dichlorotetra fluoroeth}\\ ane$		171	0.529	1.40	U		1	WG2424998
Heptane	142-82-5	100	0.466	0.818	U		1	WG2424998
Hexachloro-1,3-butadiene	87-68-3	261	0.854	6.73	U		1	<u>WG2424998</u>
n-Hexane	110-54-3	86.20	0.504	2.22	6.49		1	<u>WG2424998</u>
Isopropylbenzene	98-82-8	120.20	0.355	0.983	U		1	<u>WG2424998</u>
Methylene Chloride	75-09-2	84.90	0.587	0.694	U		1	<u>WG2424998</u>
Methyl Butyl Ketone	591-78-6	100	0.544	5.11	U		1	<u>WG2424998</u>
2-Butanone (MEK)	78-93-3	72.10	0.342	3.69	13.2		1	<u>WG2424998</u>
4-Methyl-2-pentanone (MIBK)		100.10	0.434	5.12	3.68	<u>J</u>	1	<u>WG2424998</u>
Methyl methacrylate	80-62-6	100.12	0.692	0.819	U		1	<u>WG2424998</u>
MTBE	1634-04-4	88.10	0.293	0.721	U		1	WG2424998
Naphthalene	91-20-3	128	3.23	3.30	U		1	WG2424998
2-Propanol	67-63-0	60.10	33.4	61.5	2950		20	WG2426811
Propene	115-07-1	42.10	0.368	2.15	U		1	WG2424998
Styrene	100-42-5	104	0.341	1.70	U		1	WG2424998
1,1,2,2-Tetrachloroethane	79-34-5	168	0.478	1.37	U		1	WG2424998
Tetrachloroethylene	127-18-4	166	0.754	1.36	1.09	<u>J</u>	1	WG2424998
Tetrahydrofuran	109-99-9	72.10	0.484	0.590	U		1	WG2424998
Toluene	108-88-3	92.10	0.490	1.88	4.52		1	WG2424998

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Collected date/time: 12/23/24 13:51

Volatile Organic Compounds (MS) by Method TO-15

CAS #	Mol. Wt.	MDL	RDL	Result	Qualifier	Dilution	Batch
		ug/m3	ug/m3	ug/m3			
120-82-1	181	3.42	4.66	U		1	WG2424998
71-55-6	133	0.391	1.09	U		1	WG2424998
79-00-5	133	0.372	1.09	U		1	WG2424998
79-01-6	131	0.364	1.07	U		1	WG2424998
95-63-6	120	0.455	0.982	8.69		1	WG2424998
108-67-8	120	0.419	0.982	3.09		1	WG2424998
540-84-1	114.22	0.420	0.934	U		1	WG2424998
75-01-4	62.50	0.211	0.511	U		1	WG2424998
593-60-2	106.95	0.328	0.875	U		1	WG2424998
108-05-4	86.10	0.341	2.22	U		1	WG2424998
179601-23-1	106	0.754	1.73	9.41		1	WG2424998
95-47-6	106	0.385	0.867	4.55		1	WG2424998
460-00-4	175			95.9		60.0-140	WG2424998
460-00-4	175			91.5		60.0-140	WG2426811
	120-82-1 71-55-6 79-00-5 79-01-6 95-63-6 108-67-8 540-84-1 75-01-4 593-60-2 108-05-4 179601-23-1 95-47-6 460-00-4	120-82-1 181 71-55-6 133 79-00-5 133 79-01-6 131 95-63-6 120 108-67-8 120 540-84-1 114.22 75-01-4 62.50 593-60-2 106.95 108-05-4 86.10 179601-23-1 106 95-47-6 106 460-00-4 175	ug/m3 120-82-1 181 3.42 71-55-6 133 0.391 79-00-5 133 0.372 79-01-6 131 0.364 95-63-6 120 0.455 108-67-8 120 0.419 540-84-1 114.22 0.420 75-01-4 62.50 0.211 593-60-2 106.95 0.328 108-05-4 86.10 0.341 179601-23-1 106 0.754 95-47-6 106 0.385 460-00-4 175	ug/m3 ug/m3 120-82-1 181 3.42 4.66 71-55-6 133 0.391 1.09 79-00-5 133 0.372 1.09 79-01-6 131 0.364 1.07 95-63-6 120 0.455 0.982 108-67-8 120 0.419 0.982 540-84-1 114.22 0.420 0.934 75-01-4 62.50 0.211 0.511 593-60-2 106.95 0.328 0.875 108-05-4 86.10 0.341 2.22 179601-23-1 106 0.754 1.73 95-47-6 106 0.385 0.867 460-00-4 175	ug/m3 ug/m3 ug/m3 120-82-1 181 3.42 4.66 U 71-55-6 133 0.391 1.09 U 79-00-5 133 0.372 1.09 U 79-01-6 131 0.364 1.07 U 95-63-6 120 0.455 0.982 8.69 108-67-8 120 0.419 0.982 3.09 540-84-1 114.22 0.420 0.934 U 75-01-4 62.50 0.211 0.511 U 593-60-2 106.95 0.328 0.875 U 108-05-4 86.10 0.341 2.22 U 179601-23-1 106 0.754 1.73 9.41 95-47-6 106 0.385 0.867 4.55 460-00-4 175 95.9	ug/m3 ug/m3 ug/m3 120-82-1 181 3.42 4.66 U 71-55-6 133 0.391 1.09 U 79-00-5 133 0.372 1.09 U 79-01-6 131 0.364 1.07 U 95-63-6 120 0.455 0.982 8.69 108-67-8 120 0.419 0.982 3.09 540-84-1 114.22 0.420 0.934 U 75-01-4 62.50 0.211 0.511 U 593-60-2 106.95 0.328 0.875 U 108-05-4 86.10 0.341 2.22 U 179601-23-1 106 0.754 1.73 9.41 95-47-6 106 0.385 0.867 4.55 460-00-4 175 95.9	ug/m3 ug/m3 ug/m3 120-82-1 181 3.42 4.66 U 1 71-55-6 133 0.391 1.09 U 1 79-00-5 133 0.372 1.09 U 1 79-01-6 131 0.364 1.07 U 1 95-63-6 120 0.455 0.982 8.69 1 108-67-8 120 0.419 0.982 3.09 1 540-84-1 114.22 0.420 0.934 U 1 75-01-4 62.50 0.211 0.511 U 1 593-60-2 106.95 0.328 0.875 U 1 108-05-4 86.10 0.341 2.22 U 1 179601-23-1 106 0.754 1.73 9.41 1 95-47-6 106 0.385 0.867 4.55 1 460-00-4 175 95.9 60.0-140

















L1812794-01,02,03

Volatile Organic Compounds (MS) by Method TO-15

Method Blank (MB)

(MB) R4163361-3 12/26/24	4 10:05				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ug/m3		ug/m3	ug/m3	
TPH (GC/MS) Low Fraction	U		282	826	
Acetone	U		1.24	2.97	
Allyl chloride	U		0.582	0.626	
Benzene	U		0.351	0.639	
Benzyl Chloride	U		0.461	1.04	
Bromodichloromethane	U		0.466	1.34	
Bromoform	U		0.781	6.52	
Bromomethane	U		0.364	0.776	
1,3-Butadiene	U		0.350	4.43	
Carbon disulfide	U		0.498	1.24	
Carbon tetrachloride	U		0.470	1.26	
Chlorobenzene	U		0.545	0.924	
Chloroethane	U		0.290	0.528	
Chloroform	U		0.506	0.973	
Chloromethane	U		0.227	0.413	
2-Chlorotoluene	U		0.406	1.03	
Cyclohexane	U		0.585	0.689	
Dibromochloromethane	U		0.592	1.70	
1,2-Dibromoethane	U		0.531	1.54	
1,2-Dichlorobenzene	U		0.441	1.20	
l,3-Dichlorobenzene	U		0.453	1.20	
l,4-Dichlorobenzene	U		0.462	1.20	
1,2-Dichloroethane	U		0.296	0.810	
1,1-Dichloroethane	U		0.285	0.802	
1,1-Dichloroethene	U		0.296	0.793	
cis-1,2-Dichloroethene	U		0.315	0.793	
trans-1,2-Dichloroethene	U		0.291	0.793	
1,2-Dichloropropane	U		0.348	0.924	
cis-1,3-Dichloropropene	U		0.337	0.908	
rans-1,3-Dichloropropene	U		0.361	0.908	
,4-Dioxane	U		0.591	2.27	
Ethanol	U		4.47	4.71	
Ethylbenzene	U		0.337	0.867	
4-Ethyltoluene	U		0.435	0.982	
Trichlorofluoromethane	U		0.433	1.12	
Dichlorodifluoromethane	U		0.399	0.989	
1,1,2-Trichlorotrifluoroethane	U		0.576	1.53	
1,2-Dichlorotetrafluoroethane	U		0.529	1.40	
Heptane	U		0.466	0.818	
Hexachloro-1,3-butadiene	U		0.854	6.73	

Volatile Organic Compounds (MS) by Method TO-15

L1812794-01,02,03

Method Blank (MB)

(S) 1,4-Bromofluorobenzene 86.3

(MB) R4163361-3 12/26/24	10:05				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	ug/m3		ug/m3	ug/m3	
n-Hexane	U		0.504	2.22	Ŀ
Isopropylbenzene	U		0.355	0.983	3
Methylene Chloride	U		0.587	0.694	L
Methyl Butyl Ketone	U		0.544	5.11	4
2-Butanone (MEK)	U		0.342	3.69	
4-Methyl-2-pentanone (MIBK)	U		0.434	5.12	Ŀ
Methyl methacrylate	U		0.692	0.819	5
MTBE	U		0.293	0.721	L
Naphthalene	U		3.23	3.30	6
2-Propanol	U		1.67	3.07	
Propene	U		0.368	2.15	_
Styrene	U		0.341	1.70	7
1,1,2,2-Tetrachloroethane	U		0.478	1.37	L
Tetrachloroethylene	U		0.754	1.36	8
Tetrahydrofuran	U		0.484	0.590	
Toluene	U		0.490	1.88	L
1,2,4-Trichlorobenzene	U		3.42	4.66	9
1,1,1-Trichloroethane	U		0.391	1.09	L
1,1,2-Trichloroethane	U		0.372	1.09	
Trichloroethylene	U		0.364	1.07	
1,2,4-Trimethylbenzene	U		0.455	0.982	
1,3,5-Trimethylbenzene	U		0.419	0.982	
2,2,4-Trimethylpentane	U		0.420	0.934	
Vinyl chloride	U		0.211	0.511	
Vinyl Bromide	U		0.328	0.875	
Vinyl acetate	U		0.341	2.22	
m&p-Xylene	U		0.754	1.73	
o-Xylene	U		0.385	0.867	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

60.0-140

(LCS) R4163361-1 12/26/2	(LCS) R4163361-1 12/26/24 08:48 • (LCSD) R4163361-2 12/26/24 09:27											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits		
Analyte	ug/m3	ug/m3	ug/m3	%	%	%			%	%		
TPH (GC/MS) Low Fraction	777	723	727	93.1	93.6	70.0-130	<u>J</u>	<u>J</u>	0.570	25		
Acetone	8.91	9.22	9.20	103	103	70.0-130			0.258	25		
Allyl chloride	11.7	9.83	9.89	83.7	84.3	70.0-130			0.635	25		
Benzene	12.0	13.5	13.6	113	113	70.0-130			0.472	25		

Volatile Organic Compounds (MS) by Method TO-15

L1812794-01,02,03

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

// CS/ PA163361-1 12/26/24 08:48 • // CSD) PA163361-2 12/26/24 09:27

(LCS) R4163361-1 12/26/24											
	Spike Amount		LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier		RPD Limits	
Analyte	ug/m3	ug/m3	ug/m3	%	%	%			%	%	
Benzyl Chloride	19.5	22.9	22.8	117	117	70.0-152			0.456	25	
Bromodichloromethane	25.2	29.2	29.0	116	115	70.0-130			0.922	25	
Bromoform	38.8	45.6	45.8	118	118	70.0-130			0.452	25	
Bromomethane	14.6	17.1	16.8	118	115	70.0-130			1.83	25	
,3-Butadiene	8.30	8.85	8.78	107	106	70.0-130			0.753	25	
Carbon disulfide	23.3	26.2	26.2	112	112	70.0-130			0.119	25	
Carbon tetrachloride	23.6	27.6	27.7	117	117	70.0-130			0.456	25	
Chlorobenzene	17.3	19.5	19.5	113	113	70.0-130			0.000	25	
Chloroethane	9.89	11.1	11.1	112	112	70.0-130			0.238	25	
Chloroform	18.3	21.1	21.4	116	117	70.0-130			1.15	25	
Chloromethane	7.75	8.12	8.01	105	103	70.0-130			1.28	25	
2-Chlorotoluene	19.3	22.5	22.2	116	115	70.0-130			1.15	25	
Cyclohexane	12.9	14.9	14.6	116	113	70.0-130			2.33	25	
Dibromochloromethane	31.9	37.1	37.3	116	117	70.0-130			0.458	25	
,2-Dibromoethane	28.8	33.4	33.8	116	117	70.0-130			0.915	25	
,2-Dichlorobenzene	22.5	26.8	26.7	119	118	70.0-130			0.449	25	
3-Dichlorobenzene	22.5	26.7	27.0	118	120	70.0-130			1.12	25	
4-Dichlorobenzene	22.5	26.6	27.0	118	120	70.0-130			1.35	25	
2-Dichloroethane	15.2	17.4	17.4	115	114	70.0-130			0.233	25	
1-Dichloroethane	15.0	16.8	17.4	111	116	70.0-130			3.99	25	
-Dichloroethene	14.9	16.8	17.0	113	114	70.0-130			0.703	25	
is-1,2-Dichloroethene	14.9	16.5	16.8	111	113	70.0-130			1.43	25	
ans-1,2-Dichloroethene	14.9	16.7	15.3	112	103	70.0-130			8.67	25	
2-Dichloropropane	17.3	19.1	18.9	110	109	70.0-130			0.971	25	
is-1,3-Dichloropropene	17.0	18.8	19.3	110	114	70.0-130			2.86	25	
ans-1,3-Dichloropropene	17.0	18.7	19.1	110	112	70.0-130			2.17	25	
4-Dioxane	13.5	15.8	16.0	117	118	70.0-140			0.907	25	
thanol	7.07	7.52	7.71	106	109	55.0-148			2.48	25	
hylbenzene	16.3	18.8	18.7	115	115	70.0-130			0.231	25	
-Ethyltoluene	18.4	22.0	22.1	119	120	70.0-130			0.667	25	
richlorofluoromethane	21.1	24.8	24.5	118	116	70.0-130			1.37	25	
ichlorodifluoromethane	18.5	21.7	21.6	117	116	64.0-139			0.686	25	
I,2-Trichlorotrifluoroethane	28.7	33.6	33.7	117	117	70.0-130			0.456	25	
2-Dichlorotetrafluoroethane	26.2	30.3	30.1	115	115	70.0-130			0.695	25	
eptane	15.3	17.5	17.2	114	112	70.0-130			2.12	25	
exachloro-1,3-butadiene	40.0	46.6	46.8	117	117	70.0-151			0.229	25	
-Hexane	13.2	14.6	14.7	110	111	70.0-130			0.964	25	
sopropylbenzene	18.4	21.5	21.5	117	117	70.0-130			0.000	25	
Methylene Chloride	13.0	14.5	14.7	111	113	70.0-130			1.43	25	
Methyl Butyl Ketone	15.3	17.3	18.0	113	117	70.0-149			3.70	25	



















(S) 1,4-Bromofluorobenzene

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1812794-01,02,03

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4163361-1 12/26/24 08:48 • (LCSD) R4163361-2 12/26/24 09:27

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ug/m3	ug/m3	ug/m3	%	%	%			%	%	
2-Butanone (MEK)	11.1	12.6	12.8	114	116	70.0-130			2.09	25	— <u>I</u>
4-Methyl-2-pentanone (MIBK)	15.4	17.1	17.2	111	112	70.0-139			0.955	25	
Methyl methacrylate	15.4	16.7	16.9	109	110	70.0-130			1.22	25	- $ $
MTBE	13.5	15.3	15.3	113	113	70.0-130			0.000	25	Г
Naphthalene	19.6	22.5	22.3	115	114	70.0-159			0.935	25	
2-Propanol	9.22	9.76	10.2	106	110	70.0-139			3.95	25	L
Propene	6.46	6.34	6.46	98.1	100	64.0-144			1.88	25	
Styrene	31.9	38.0	37.4	119	117	70.0-130			1.47	25	
1,1,2,2-Tetrachloroethane	25.8	29.2	29.3	113	114	70.0-130			0.469	25	
Tetrachloroethylene	25.5	29.8	29.8	117	117	70.0-130			0.000	25	
Tetrahydrofuran	11.1	11.7	12.4	106	113	70.0-137			6.36	25	
Toluene	14.1	16.2	16.0	114	114	70.0-130			0.702	25	7
1,2,4-Trichlorobenzene	27.8	31.2	31.3	113	113	70.0-160			0.237	25	
1,1,1-Trichloroethane	20.4	24.3	24.3	119	119	70.0-130			0.224	25	
1,1,2-Trichloroethane	20.4	23.5	23.4	115	115	70.0-130			0.464	25	
Trichloroethylene	20.1	22.5	23.2	112	115	70.0-130			3.05	25	
1,2,4-Trimethylbenzene	18.4	21.8	21.6	118	118	70.0-130			0.678	25	
1,3,5-Trimethylbenzene	18.4	22.0	22.2	119	121	70.0-130			0.889	25	
2,2,4-Trimethylpentane	17.5	19.4	19.2	111	110	70.0-130			0.726	25	
Vinyl chloride	9.59	10.7	10.9	111	113	70.0-130			1.90	25	
Vinyl Bromide	16.4	19.5	18.8	119	115	70.0-130			3.65	25	
Vinyl acetate	13.2	10.1	10.9	76.3	82.4	70.0-130			7.73	25	
m&p-Xylene	32.5	37.4	37.1	115	114	70.0-130			0.698	25	
o-Xylene	16.3	18.9	18.9	117	116	70.0-130			0.459	25	

60.0-140



















97.6

97.7

WG2426811

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1812794-01,02,03

Method Blank (MB)

(S) 1,4-Bromofluorobenzene

(MB) R4163302-3 12/31/24	1 09:34			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/m3		ug/m3	ug/m3
TPH (GC/MS) Low Fraction	U		282	826
Acetone	U		1.24	2.97
Heptane	U		0.466	0.818
n-Hexane	U		0.504	2.22
2-Butanone (MEK)	U		0.342	3.69
2-Propanol	U		1.67	3.07
(S) 1,4-Bromofluorobenzene	90.6			60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

103

102

(LCS) R4163302-1 12/31/24 08:32 • (LCSD) R4163302-2 12/31/24 09:04

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	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ug/m3	ug/m3	ug/m3	%	%	%			%	%	L
TPH (GC/MS) Low Fraction	777	785	785	101	101	70.0-130	<u>J</u>	<u>J</u>	0.000	25	8
Acetone	8.91	9.17	9.12	103	102	70.0-130			0.519	25	
Heptane	15.3	17.7	17.1	115	111	70.0-130			3.76	25	٥
n-Hexane	13.2	14.2	14.2	107	107	70.0-130			0.248	25	
2-Butanone (MEK)	11.1	11.5	11.4	104	103	70.0-130			0.257	25	L
2-Propanol	9.22	9.54	9.78	103	106	70.0-139			2.54	25	

60.0-140



















GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Apple viations and	Definitions
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

Е	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.





















ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky 16	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto



















^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Pace* Location Requested (City/State):								LAB USE ONLY- Affix Workorder/Login Label Here MOOZ											
Alpha Environmental Services, In	С	Contact/Repor	t To: Jim C	ooper											1.	100			
Street Address: 11080 SW Allen Blvd.			03-292-53 @alphaenvir		iet		4	×			Scan Q	QR code for instructions					12177614		
City, State Zip:		Cc E-Mail:					- 12		ED-MEN'S	0425NL						L18127014			
Customer Project#: 24-63060		Invoice to:																	
Project Name: 3939 NW St. Helons	RJ.	Invoice E-Mail:											I A	nalyses	Reques	ted	2 11/19		
Site Collection Info/Facility ID (as applicable): ALPHAENVBOR-AIR		Purchase Ord Quote #:	er# (if applical	able):					Field	Information	1		_	T -			942 - Jordan N Zito		
Time Zone Collected: [] AK PT [] MT [] CT [] ET		State origin of sample(s):															AcctNum / Client		
Data Deliverables:	Regulatory Pro	gram (CAA, RCR	A, etc.) as				1	Ca	nister	Т			1				ALPHAENVBO		
[] Level II	Rush (Pre-appr 2 Day 3 day			Permit # a:	s applicable		ż	Pressur	e / Vacuum	PUF / FILTER									
[] EQUIS	Date Results Requested:	2924 1 0 201000	Units for ug/m3 PPBV mg/m3 PPMV Reporting:							Flow	Total	Summa				Table #: Profile / Template: T264030			
* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I	A), Indoor (I), Soil Vapor (SV), Other (O)						Start End Pressure	End Pressure	Duration	Rate	Total Volume	5 Sur	0.5	+		Prelog / Bottle Ord. ID: P11145	527		
Customer Sample ID	Matrix *	Summa	Flow Controller	Begin Co	ollection	End C	ollection	Vacuum	Vacuum			Sampled	14	50	0				
	4	Canister ID	ID	Date	Time	Date	Time	(in Hg)	(in Hg)	(minutes)	m³/min or L/min	m ³ or L	TO-1	:7	\vdash		Sample Comment		
551	50	15031	6411	12/23	13:25	1423	13130	29.5	5	5			Х	x	X		-01		
552	50	21611	64 33	12/23	13:40	12/03	1344	28	5	4.5			Х	X	X		102		
55 3	5U	21549	13172	12/23	13:47	12/23	13:51	30	5	4.5			х	X	3		-09		
Samp COC Seal Present/Intact: COC Signed/Accurate: Bottles arrive intact:	le Receipt C) N N Size: N Tage (Airs 1L Color: G	₩ 3 F_ B	1.4L															
Correct bottles used:	6'-N Tubin		-				29												
Unused:	т.	/P#:	<u> </u>																
Customer Remarks / Special Conditions / Possible Hazards:				Collected By:						Additional	Instruction	ns from Pac							
				Printed Nam Signature;	ne:					# Coolers:		Thermometer			Correction		Obs. Temp (T.C): 150 Feb and Tem	mp. (°C):	
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Relinquished by/Company: (Signature)				Received by/0	Company: (S	ignature)				Date/Time:						Delivered by: In- Person Courier			
Relinquished by/Company: (Signature)	C	Pate/Time:		Received by/	Company; (Si	ignature)		92	Date/Time:			311	Feder UPS Other			2			
Relinquished by/Company: (Signature)	C	Date/Time: Received by/Company: (Signature)			1	Villa Date/Their 17/ Char				Page: 1 of:									



Apex Laboratories, LLC

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

Monday, January 6, 2025 Jim Cooper Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005

RE: A4L1669 - Default- Env Dept. - 3939 NW St. Helens Rd 24-63060

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 A4L1669, which was received by the laboratory on 12/23/2024 at 4:00:00PM.

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

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Default Cooler 1.9 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



Beaverton, OR 97005

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Alpha Environmental Project: <u>Default- Env Dept.</u>

11080 SW Allen Blvd, Suite 100 Project Number: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFORMATION										
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received							
24-63060 D8-12'	A4L1669-01	Soil	12/23/24 10:00	12/23/24 16:00							
24-63060 D8-15'	A4L1669-02	Soil	12/23/24 10:10	12/23/24 16:00							
24-63060 D8-17'	A4L1669-03	Soil	12/23/24 10:15	12/23/24 16:00							
24-63060 D8-17'-Dup	A4L1669-04	Soil	12/23/24 10:15	12/23/24 16:00							
24-63060 D8-20'	A4L1669-05	Soil	12/23/24 10:20	12/23/24 16:00							
24-63060 D11-12'	A4L1669-06	Soil	12/23/24 11:30	12/23/24 16:00							
24-63060 D11-15'	A4L1669-07	Soil	12/23/24 11:35	12/23/24 16:00							
24-63060 D11-20'	A4L1669-08	Soil	12/23/24 11:40	12/23/24 16:00							
24-63060 D9	A4L1669-09	Water	12/23/24 11:00	12/23/24 16:00							
24-63060 D10	A4L1669-10	Water	12/23/24 11:30	12/23/24 16:00							
24-63060 D9 DUP	A4L1669-11	Water	12/23/24 11:00	12/23/24 16:00							

Apex Laboratories

COSi



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: <u>Default- Env Dept.</u>

Project Number: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
24-63060 D8-12' (A4L1669-01)				Matrix: Soil		Batch	: 24L0900	
Gasoline Range Organics	4370		349	mg/kg dry	2000	12/25/24 01:07	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 104 %	Limits: 50-150 %	6 1	12/25/24 01:07	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			99 %	50-150 %	6 1	12/25/24 01:07	NWTPH-Gx (MS)	
24-63060 D8-15' (A4L1669-02)				Matrix: Soil		Batch	: 24L0900	
Gasoline Range Organics	2410		170	mg/kg dry	1000	12/24/24 23:44	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 100 %	Limits: 50-150 %	6 I	12/24/24 23:44	NWTPH-Gx (MS)	
I,4-Difluorobenzene (Sur)			100 %	50-150 %	6 1	12/24/24 23:44	NWTPH-Gx (MS)	
24-63060 D8-17' (A4L1669-03RE2)				Matrix: Soil		Batch	: 24L1029	
Gasoline Range Organics	932		36.3	mg/kg dry	200	12/30/24 23:17	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 104 %	Limits: 50-150 %	6 I	12/30/24 23:17	NWTPH-Gx (MS)	
I,4-Difluorobenzene (Sur)			99 %	50-150 %	6 1	12/30/24 23:17	NWTPH-Gx (MS)	
24-63060 D8-17'-Dup (A4L1669-04)				Matrix: Soil		Batch	: 24L0900	
Gasoline Range Organics	24.3		8.83	mg/kg dry	50	12/24/24 22:50	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 105 %	Limits: 50-150 %	6 I	12/24/24 22:50	NWTPH-Gx (MS)	
I,4-Difluorobenzene (Sur)			100 %	50-150 %	6 1	12/24/24 22:50	NWTPH-Gx (MS)	
24-63060 D8-20' (A4L1669-05RE2)				Matrix: Soil		Batch	: 24L1029	
Gasoline Range Organics	142		8.14	mg/kg dry	50	12/30/24 22:49	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 106 %	Limits: 50-150 %	6 I	12/30/24 22:49	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			99 %	50-150 %	6 1	12/30/24 22:49	NWTPH-Gx (MS)	
24-63060 D11-12' (A4L1669-06)				Matrix: Soil		Batch	: 24L0900	
Gasoline Range Organics	ND		9.38	mg/kg dry	50	12/24/24 21:28	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 106 %	Limits: 50-150 %	6 1	12/24/24 21:28	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			99 %	50-150 %	6 1	12/24/24 21:28	NWTPH-Gx (MS)	
24-63060 D11-15' (A4L1669-07)				Matrix: Soil		Batch	: 24L0900	
Gasoline Range Organics	ND		10.5	mg/kg dry	50	12/24/24 21:55	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 105 %	Limits: 50-150 %	6 1	12/24/24 21:55	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)		•	99 %	50-150 %	6 I	12/24/24 21:55	NWTPH-Gx (MS)	

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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: <u>Default- Env Dept.</u>

Project Number: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons (E	Benzene th	nrough Naphtha	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
24-63060 D11-20' (A4L1669-08)				Matrix: Soil		Batch	: 24L0900	
Gasoline Range Organics	ND		8.57	mg/kg dry	50	12/24/24 22:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 104 %	Limits: 50-150 %	1	12/24/24 22:22	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			100 %	50-150 %	1	12/24/24 22:22	NWTPH-Gx (MS)	
24-63060 D9 (A4L1669-09RE1)			Matrix: Wate	er	Batch	: 24L0985		
Gasoline Range Organics	ND		100	ug/L	1	12/27/24 15:59	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 96 %	Limits: 50-150 %	1	12/27/24 15:59	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			111 %	50-150 %	1	12/27/24 15:59	NWTPH-Gx (MS)	
24-63060 D10 (A4L1669-10RE1)				Matrix: Wate	er	Batch		
Gasoline Range Organics	ND		100	ug/L	1	12/27/24 16:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 98 %	Limits: 50-150 %	1	12/27/24 16:22	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			113 %	50-150 %	1	12/27/24 16:22	NWTPH-Gx (MS)	
24-63060 D9 DUP (A4L1669-11)			Matrix: Wate	er	Batch			
Gasoline Range Organics	ND		100	ug/L	1	12/27/24 15:37	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 96 %	Limits: 50-150 %	1	12/27/24 15:37	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			111 %	50-150 %	1	12/27/24 15:37	NWTPH-Gx (MS)	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Alpha Environmental Project: Default- Env Dept.

11080 SW Allen Blvd, Suite 100 Project Number: 3939 NW St. Helens Rd 24-6

Beaverton, OR 97005 Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

ANALYTICAL SAMPLE RESULTS

				pounds by EPA				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
24-63060 D9 (A4L1669-09RE1)				Matrix: Wate	r	Batch:	24L0985	
Benzene	ND		0.200	ug/L	1	12/27/24 15:59	EPA 8260D	
Toluene	ND		1.00	ug/L	1	12/27/24 15:59	EPA 8260D	
Ethylbenzene	ND		0.500	ug/L	1	12/27/24 15:59	EPA 8260D	
Xylenes, total	ND		1.50	ug/L	1	12/27/24 15:59	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND		1.00	ug/L	1	12/27/24 15:59	EPA 8260D	
Naphthalene	ND		5.00	ug/L	1	12/27/24 15:59	EPA 8260D	
1,2-Dibromoethane (EDB)	ND		0.500	ug/L	1	12/27/24 15:59	EPA 8260D	
1,2-Dichloroethane (EDC)	ND		0.400	ug/L	1	12/27/24 15:59	EPA 8260D	
Isopropylbenzene	ND		1.00	ug/L	1	12/27/24 15:59	EPA 8260D	
1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	12/27/24 15:59	EPA 8260D	
1,3,5-Trimethylbenzene	ND		1.00	ug/L	1	12/27/24 15:59	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery.	106 %	Limits: 80-120 %	1	12/27/24 15:59	EPA 8260D	
Toluene-d8 (Surr)			107 %	80-120 %	1	12/27/24 15:59	EPA 8260D	
4-Bromofluorobenzene (Surr)			104 %	80-120 %	1	12/27/24 15:59	EPA 8260D	
24-63060 D10 (A4L1669-10RE1)				Matrix: Wate	r	Batch:	24L0985	
Benzene	ND		0.200	ug/L	1	12/27/24 16:22	EPA 8260D	
Toluene	ND		1.00	ug/L	1	12/27/24 16:22	EPA 8260D	
Ethylbenzene	ND		0.500	ug/L	1	12/27/24 16:22	EPA 8260D	
Xylenes, total	ND		1.50	ug/L	1	12/27/24 16:22	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND		1.00	ug/L	1	12/27/24 16:22	EPA 8260D	
Naphthalene	ND		5.00	ug/L	1	12/27/24 16:22	EPA 8260D	
1,2-Dibromoethane (EDB)	ND		0.500	ug/L	1	12/27/24 16:22	EPA 8260D	
1,2-Dichloroethane (EDC)	ND		0.400	ug/L	1	12/27/24 16:22	EPA 8260D	
Isopropylbenzene	ND		1.00	ug/L	1	12/27/24 16:22	EPA 8260D	
1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	12/27/24 16:22	EPA 8260D	
1,3,5-Trimethylbenzene	ND		1.00	ug/L	1	12/27/24 16:22	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery.	105 %	Limits: 80-120 %	1	12/27/24 16:22	EPA 8260D	
Toluene-d8 (Surr)			107 %	80-120 %	1	12/27/24 16:22	EPA 8260D	
4-Bromofluorobenzene (Surr)			104 %	80-120 %	1	12/27/24 16:22	EPA 8260D	
24-63060 D9 DUP (A4L1669-11)				Matrix: Wate	r	Batch:	24L0985	
Benzene	ND		0.200	ug/L	1	12/27/24 15:37	EPA 8260D	
Toluene	ND		1.00	ug/L	1	12/27/24 15:37	EPA 8260D	
Ethylbenzene	ND		0.500	ug/L	1	12/27/24 15:37	EPA 8260D	
2011,1001110	112		0.500	4.6, E			EPA 8260D	

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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: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date			
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes	
24-63060 D9 DUP (A4L1669-11)				Matrix: Wate	Batch:	Batch: 24L0985			
Methyl tert-butyl ether (MTBE)	ND		1.00	ug/L	1	12/27/24 15:37	EPA 8260D		
Naphthalene	ND		5.00	ug/L	1	12/27/24 15:37	EPA 8260D		
1,2-Dibromoethane (EDB)	ND		0.500	ug/L	1	12/27/24 15:37	EPA 8260D		
1,2-Dichloroethane (EDC)	ND		0.400	ug/L	1	12/27/24 15:37	EPA 8260D		
Isopropylbenzene	ND		1.00	ug/L	1	12/27/24 15:37	EPA 8260D		
1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	12/27/24 15:37	EPA 8260D		
1,3,5-Trimethylbenzene	ND		1.00	ug/L	1	12/27/24 15:37	EPA 8260D		
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 105 %	Limits: 80-120 %	5 1	12/27/24 15:37	EPA 8260D		
Toluene-d8 (Surr)			106 %	80-120 %	5 1	12/27/24 15:37	EPA 8260D		
4-Bromofluorobenzene (Surr)			104 %	80-120 %	5 1	12/27/24 15:37	EPA 8260D		

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Beaverton, OR 97005

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Alpha Environmental Project: <u>Default- Env Dept.</u>

11080 SW Allen Blvd, Suite 100 Project Number: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

ANALYTICAL SAMPLE RESULTS

	· ·	D.	D			ъ.		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
24-63060 D8-12' (A4L1669-01)				Matrix: Soil		Batch:	24L0900	
Benzene	ND		0.698	mg/kg dry	2000	12/25/24 01:07	5035A/8260D	
Toluene	ND		3.49	mg/kg dry	2000	12/25/24 01:07	5035A/8260D	
Ethylbenzene	176		1.74	mg/kg dry	2000	12/25/24 01:07	5035A/8260D	
Xylenes, total	ND		5.23	mg/kg dry	2000	12/25/24 01:07	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND		3.49	mg/kg dry	2000	12/25/24 01:07	5035A/8260D	
Naphthalene	24.0		6.98	mg/kg dry	2000	12/25/24 01:07	5035A/8260D	
1,2-Dibromoethane (EDB)	ND		3.49	mg/kg dry	2000	12/25/24 01:07	5035A/8260D	
1,2-Dichloroethane (EDC)	ND		1.74	mg/kg dry	2000	12/25/24 01:07	5035A/8260D	
Isopropylbenzene	21.5		3.49	mg/kg dry	2000	12/25/24 01:07	5035A/8260D	
1,2,4-Trimethylbenzene	71.8		3.49	mg/kg dry	2000	12/25/24 01:07	5035A/8260D	
1,3,5-Trimethylbenzene	7.26		3.49	mg/kg dry	2000	12/25/24 01:07	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	: 106 %	Limits: 80-120 %	1	12/25/24 01:07	5035A/8260D	
Toluene-d8 (Surr)			95 %	80-120 %	1	12/25/24 01:07	5035A/8260D	
4-Bromofluorobenzene (Surr)			99 %	79-120 %	1	12/25/24 01:07	5035A/8260D	
24-63060 D8-15' (A4L1669-02)				Matrix: Soil		Batch:	24L0900	
Benzene	ND		0.339	mg/kg dry	1000	12/24/24 23:44	5035A/8260D	
Toluene	ND		1.70	mg/kg dry	1000	12/24/24 23:44	5035A/8260D	
Ethylbenzene	71.8		0.848	mg/kg dry	1000	12/24/24 23:44	5035A/8260D	
Xylenes, total	108		2.54	mg/kg dry	1000	12/24/24 23:44	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND		1.70	mg/kg dry	1000	12/24/24 23:44	5035A/8260D	
Naphthalene	8.38		3.39	mg/kg dry	1000	12/24/24 23:44	5035A/8260D	
1,2-Dibromoethane (EDB)	ND		1.70	mg/kg dry	1000	12/24/24 23:44	5035A/8260D	
1,2-Dichloroethane (EDC)	ND		0.848	mg/kg dry	1000	12/24/24 23:44	5035A/8260D	
Isopropylbenzene	6.72		1.70	mg/kg dry	1000	12/24/24 23:44	5035A/8260D	
1,2,4-Trimethylbenzene	96.6		1.70	mg/kg dry	1000	12/24/24 23:44	5035A/8260D	
1,3,5-Trimethylbenzene	28.0		1.70	mg/kg dry	1000	12/24/24 23:44	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	v: 106 %	Limits: 80-120 %	1	12/24/24 23:44	5035A/8260D	
Toluene-d8 (Surr)			97 %	80-120 %	1	12/24/24 23:44	5035A/8260D	
4-Bromofluorobenzene (Surr)			97 %	79-120 %	1	12/24/24 23:44	5035A/8260D	
24-63060 D8-17' (A4L1669-03RE2)				Matrix: Soil		Batch:	24L1029	
Benzene	ND		0.0727	mg/kg dry	200	12/30/24 23:17	5035A/8260D	
Toluene	ND		0.363	mg/kg dry	200	12/30/24 23:17	5035A/8260D	
Ethylbenzene	24.5		0.182	mg/kg dry	200	12/30/24 23:17	5035A/8260D	
,	40.5		0.545	mg/kg dry	200	12/30/24 23:17	5035A/8260D	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Alpha Environmental Project: **Default- Env Dept.**

11080 SW Allen Blvd, Suite 100 Project Number: 3939 NW St. Helens Rd 24-6 Beaverton, OR 97005

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

ANALYTICAL SAMPLE RESULTS

	Selected	voiatile Organi	c Compo	unds by EPA 50	35A/826	עט		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
24-63060 D8-17' (A4L1669-03RE2)				Matrix: Soil		Batch:	24L1029	
Methyl tert-butyl ether (MTBE)	ND		0.363	mg/kg dry	200	12/30/24 23:17	5035A/8260D	
Naphthalene	3.46		0.727	mg/kg dry	200	12/30/24 23:17	5035A/8260D	
1,2-Dibromoethane (EDB)	ND		0.363	mg/kg dry	200	12/30/24 23:17	5035A/8260D	
1,2-Dichloroethane (EDC)	ND		0.182	mg/kg dry	200	12/30/24 23:17	5035A/8260D	
Isopropylbenzene	2.64		0.363	mg/kg dry	200	12/30/24 23:17	5035A/8260D	
1,2,4-Trimethylbenzene	35.3		0.363	mg/kg dry	200	12/30/24 23:17	5035A/8260D	
1,3,5-Trimethylbenzene	10.3		0.363	mg/kg dry	200	12/30/24 23:17	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	: 106 %	Limits: 80-120 %	1	12/30/24 23:17	5035A/8260D	
Toluene-d8 (Surr)			95 %	80-120 %	1	12/30/24 23:17	5035A/8260D	
4-Bromofluorobenzene (Surr)			99 %	79-120 %	1	12/30/24 23:17	5035A/8260D	
24-63060 D8-17'-Dup (A4L1669-04)				Matrix: Soil		Batch:	24L0900	
Benzene	ND		0.0177	mg/kg dry	50	12/24/24 22:50	5035A/8260D	
Toluene	ND		0.0883	mg/kg dry	50	12/24/24 22:50	5035A/8260D	
Ethylbenzene	1.66		0.0442	mg/kg dry	50	12/24/24 22:50	5035A/8260D	
Xylenes, total	2.14		0.133	mg/kg dry	50	12/24/24 22:50	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND		0.0883	mg/kg dry	50	12/24/24 22:50	5035A/8260D	
Naphthalene	ND		0.177	mg/kg dry	50	12/24/24 22:50	5035A/8260D	
1,2-Dibromoethane (EDB)	ND		0.0883	mg/kg dry	50	12/24/24 22:50	5035A/8260D	
1,2-Dichloroethane (EDC)	ND		0.0442	mg/kg dry	50	12/24/24 22:50	5035A/8260D	
Isopropylbenzene	ND		0.0883	mg/kg dry	50	12/24/24 22:50	5035A/8260D	
1,2,4-Trimethylbenzene	0.710		0.0883	mg/kg dry	50	12/24/24 22:50	5035A/8260D	
1,3,5-Trimethylbenzene	0.185		0.0883	mg/kg dry	50	12/24/24 22:50	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	: 107 %	Limits: 80-120 %	1	12/24/24 22:50	5035A/8260D	
Toluene-d8 (Surr)			97 %	80-120 %	1	12/24/24 22:50	5035A/8260D	
4-Bromofluorobenzene (Surr)			95 %	79-120 %	1	12/24/24 22:50	5035A/8260D	
24-63060 D8-20' (A4L1669-05RE2)				Matrix: Soil		Batch:	24L1029	
Benzene	ND		0.0163	mg/kg dry	50	12/30/24 22:49	5035A/8260D	
Toluene	ND		0.0814	mg/kg dry	50	12/30/24 22:49	5035A/8260D	
Ethylbenzene	4.76		0.0407	mg/kg dry	50	12/30/24 22:49	5035A/8260D	
Xylenes, total	1.43		0.122	mg/kg dry	50	12/30/24 22:49	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND		0.0814	mg/kg dry	50	12/30/24 22:49	5035A/8260D	
Naphthalene	0.568		0.163	mg/kg dry	50	12/30/24 22:49	5035A/8260D	
1,2-Dibromoethane (EDB)	ND		0.0814	mg/kg dry	50	12/30/24 22:49	5035A/8260D	
1,2-Dichloroethane (EDC)	ND		0.0407	mg/kg dry	50	12/30/24 22:49	5035A/8260D	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Alpha Environmental Project: **Default- Env Dept.**

Project Number: 3939 NW St. Helens Rd 24-6 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Date Analyzed	Method Ref.	Note
24-63060 D8-20' (A4L1669-05RE2)				Matrix: Soil		Batch:	24L1029	
Isopropylbenzene	0.587		0.0814	mg/kg dry	50	12/30/24 22:49	5035A/8260D	
1,2,4-Trimethylbenzene	3.73		0.0814	mg/kg dry	50	12/30/24 22:49	5035A/8260D	
1,3,5-Trimethylbenzene	0.120		0.0814	mg/kg dry	50	12/30/24 22:49	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 105 %	Limits: 80-120 %	1	12/30/24 22:49	5035A/8260D	
Toluene-d8 (Surr)			94 %	80-120 %	1	12/30/24 22:49	5035A/8260D	
4-Bromofluorobenzene (Surr)			99 %	79-120 %	1	12/30/24 22:49	5035A/8260D	
24-63060 D11-12' (A4L1669-06)				Matrix: Soil		Batch:	24L0900	
Benzene	ND		0.0188	mg/kg dry	50	12/24/24 21:28	5035A/8260D	
Toluene	ND		0.0938	mg/kg dry	50	12/24/24 21:28	5035A/8260D	
Ethylbenzene	ND		0.0469	mg/kg dry	50	12/24/24 21:28	5035A/8260D	
Xylenes, total	ND		0.141	mg/kg dry	50	12/24/24 21:28	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND		0.0938	mg/kg dry	50	12/24/24 21:28	5035A/8260D	
Naphthalene	ND		0.188	mg/kg dry	50	12/24/24 21:28	5035A/8260D	
1,2-Dibromoethane (EDB)	ND		0.0938	mg/kg dry	50	12/24/24 21:28	5035A/8260D	
1,2-Dichloroethane (EDC)	ND		0.0469	mg/kg dry	50	12/24/24 21:28	5035A/8260D	
Isopropylbenzene	ND		0.0938	mg/kg dry	50	12/24/24 21:28	5035A/8260D	
1,2,4-Trimethylbenzene	ND		0.0938	mg/kg dry	50	12/24/24 21:28	5035A/8260D	
1,3,5-Trimethylbenzene	ND		0.0938	mg/kg dry	50	12/24/24 21:28	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 104 %	Limits: 80-120 %	1	12/24/24 21:28	5035A/8260D	
Toluene-d8 (Surr)			95 %	80-120 %	1	12/24/24 21:28	5035A/8260D	
4-Bromofluorobenzene (Surr)			99 %	79-120 %	1	12/24/24 21:28	5035A/8260D	
24-63060 D11-15' (A4L1669-07)				Matrix: Soil		Batch:	24L0900	
Benzene	ND		0.0210	mg/kg dry	50	12/24/24 21:55	5035A/8260D	
Toluene	ND		0.105	mg/kg dry	50	12/24/24 21:55	5035A/8260D	
Ethylbenzene	ND		0.0526	mg/kg dry	50	12/24/24 21:55	5035A/8260D	
Xylenes, total	ND		0.158	mg/kg dry	50	12/24/24 21:55	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND		0.105	mg/kg dry	50	12/24/24 21:55	5035A/8260D	
Naphthalene	ND		0.210	mg/kg dry	50	12/24/24 21:55	5035A/8260D	
1,2-Dibromoethane (EDB)	ND		0.105	mg/kg dry	50	12/24/24 21:55	5035A/8260D	
1,2-Dichloroethane (EDC)	ND		0.0526	mg/kg dry	50	12/24/24 21:55	5035A/8260D	
sopropylbenzene	ND		0.105	mg/kg dry	50	12/24/24 21:55	5035A/8260D	
1,2,4-Trimethylbenzene	ND		0.105	mg/kg dry	50	12/24/24 21:55	5035A/8260D	
1,3,5-Trimethylbenzene	ND		0.105	mg/kg dry	50	12/24/24 21:55	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 105 %	Limits: 80-120 %		12/24/24 21:55	5035A/8260D	
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ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100

Beaverton, OR 97005

Project: <u>Default- Env Dept.</u>

Project Number: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

ANALYTICAL SAMPLE RESULTS

	Selected '	Volatile Organ	nic Compo	unds by EPA 50	35A/826	0D		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
24-63060 D11-15' (A4L1669-07)				Matrix: Soil		Batch:	24L0900	
Surrogate: Toluene-d8 (Surr)		Recove	ery: 95 %	Limits: 80-120 %	5 1	12/24/24 21:55	5035A/8260D	
4-Bromofluorobenzene (Surr)			99 %	79-120 %	<i>I</i>	12/24/24 21:55	5035A/8260D	
24-63060 D11-20' (A4L1669-08)				Matrix: Soil		Batch:	24L0900	
Benzene	ND		0.0171	mg/kg dry	50	12/24/24 22:22	5035A/8260D	
Toluene	ND		0.0857	mg/kg dry	50	12/24/24 22:22	5035A/8260D	
Ethylbenzene	ND		0.0429	mg/kg dry	50	12/24/24 22:22	5035A/8260D	
Xylenes, total	ND		0.129	mg/kg dry	50	12/24/24 22:22	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND		0.0857	mg/kg dry	50	12/24/24 22:22	5035A/8260D	
Naphthalene	ND		0.171	mg/kg dry	50	12/24/24 22:22	5035A/8260D	
1,2-Dibromoethane (EDB)	ND		0.0857	mg/kg dry	50	12/24/24 22:22	5035A/8260D	
1,2-Dichloroethane (EDC)	ND		0.0429	mg/kg dry	50	12/24/24 22:22	5035A/8260D	
Isopropylbenzene	ND		0.0857	mg/kg dry	50	12/24/24 22:22	5035A/8260D	
1,2,4-Trimethylbenzene	ND		0.0857	mg/kg dry	50	12/24/24 22:22	5035A/8260D	
1,3,5-Trimethylbenzene	ND		0.0857	mg/kg dry	50	12/24/24 22:22	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 106 %	Limits: 80-120 %	1	12/24/24 22:22	5035A/8260D	
Toluene-d8 (Surr)			96 %	80-120 %	<i>I</i>	12/24/24 22:22	5035A/8260D	
4-Bromofluorobenzene (Surr)			97 %	79-120 %	<i>i</i> 1	12/24/24 22:22	5035A/8260D	

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ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100

Beaverton, OR 97005

Project: <u>Default- Env Dept.</u>

Project Number: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

ANALYTICAL SAMPLE RESULTS

		Pe	ercent Dry W	eight							
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes			
24-63060 D8-12' (A4L1669-01)				Matrix: So	il	Batch:	24L0936				
% Solids	69.8		1.00	%	1	12/27/24 05:06	EPA 8000D				
24-63060 D8-15' (A4L1669-02)				Matrix: So	il	Batch:	24L0936				
% Solids	68.1		1.00	%	1	12/27/24 05:06	EPA 8000D				
24-63060 D8-17' (A4L1669-03)	Matrix: Soil Batch: 24L0936										
% Solids	68.7		1.00	%	1	12/27/24 05:06	EPA 8000D				
24-63060 D8-17'-Dup (A4L1669-04)				Matrix: So	il	Batch:					
% Solids	69.9		1.00	%	1	12/27/24 05:06	EPA 8000D				
24-63060 D8-20' (A4L1669-05)				Matrix: So	il	Batch:	24L0936				
% Solids	71.2		1.00	%	1	12/27/24 05:06	EPA 8000D				
24-63060 D11-12' (A4L1669-06)				Matrix: So	il	Batch:	24L0936				
% Solids	67.3		1.00	%	1	12/27/24 05:06	EPA 8000D				
24-63060 D11-15' (A4L1669-07)				Matrix: Soil Batch: 24L0936							
% Solids	79.3		1.00	%	1	12/27/24 05:06	EPA 8000D	-			
24-63060 D11-20' (A4L1669-08)				Matrix: So	il	Batch: 24L0936					
% Solids	70.6		1.00	%	1	1 12/27/24 05:06 EPA 8000D					

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ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005 Project: <u>Default- Env Dept.</u>

Project Number: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

		_	_									
Analyte	Result	Detection Limit	Reporting Limit	Units Dil	ıtion	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
•		Limit										
Batch 24L0900 - EPA 5035A							Soil					
Blank (24L0900-BLK1)		Prepared:	12/24/24 13	:08 Analyzed: 12	2/24/24	15:31						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		5.00	<u></u>	50							
Surr: 4-Bromofluorobenzene (Sur)		Recove	ery: 100 %	Limits: 50-150 9		Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			99 %	50-150 %	6		"					
LCS (24L0900-BS2)		Prepared:	12/24/24 13	:08 Analyzed: 12	2/24/24	15:04						
NWTPH-Gx (MS)												
Gasoline Range Organics	22.5		5.00	mg/kg wet	50	25.0		90	80 - 120%			
Surr: 4-Bromofluorobenzene (Sur)		Recove	ery: 101 %	Limits: 50-150	%	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			97 %	50-150 %	6		"					
Duplicate (24L0900-DUP1)		Prepared:	12/23/24 10	:15 Analyzed: 12	2/25/24 (00:39						
QC Source Sample: 24-63060 D8-	17' (A4L160	<u> </u>										
NWTPH-Gx (MS)												
Gasoline Range Organics	938		182	mg/kg dry 1	000		906			3	30%	
Gasoline Range Organics Surr: 4-Bromofluorobenzene (Sur)	938		182 very: 98 %	mg/kg dry 1		 Dilt	906 ution: 1x			3	30%	
	938				%	 Dilı				3	30%	
Surr: 4-Bromofluorobenzene (Sur)	938	Reco	very: 98 % 99 %	Limits: 50-150	% %		ution: 1x			3	30%	
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	very: 98 % 99 %	Limits: 50-150 9	% %		ution: 1x			3	30%	
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Duplicate (24L0900-DUP2)		Reco	very: 98 % 99 %	Limits: 50-150 9	% %		ution: 1x			3	30%	
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Duplicate (24L0900-DUP2) QC Source Sample: 24-63060 D8- NWTPH-Gx (MS)		Reco	very: 98 % 99 %	Limits: 50-150 9	% % 2/25/24 (ution: 1x			2	30%	
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Duplicate (24L0900-DUP2) OC Source Sample: 24-63060 D8-	12' (A4L160	Reco Prepared: 9-01)	98 % 99 % 12/23/24 10	Limits: 50-150 9 50-150 9 :00 Analyzed: 12	% % 2/25/24 (000	01:34	ution: 1x					
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Duplicate (24L0900-DUP2) OC Source Sample: 24-63060 D8- NWTPH-Gx (MS) Gasoline Range Organics	12' (A4L160	Reco Prepared: 9-01)	very: 98 % 99 % 12/23/24 10 349	Limits: 50-150 9 50-150 9 :00 Analyzed: 12 mg/kg dry 2	2/25/24 (0000	01:34	tion: Ix "					
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Duplicate (24L0900-DUP2) OC Source Sample: 24-63060 D8- NWTPH-Gx (MS) Gasoline Range Organics Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)	12' (A4L160	Reco Prepared: 9-01)	yery: 98 % 99 % 12/23/24 10 349 ery: 105 %	Limits: 50-150 9 50-150 9 :00 Analyzed: 12 mg/kg dry 2 Limits: 50-150 9	2/25/24 (0000	01:34	4370 tion: Ix "					
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Duplicate (24L0900-DUP2) OC Source Sample: 24-63060 D8- NWTPH-Gx (MS) Gasoline Range Organics Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Batch 24L0911 - EPA 5030C	12' (A4L160	Prepared: 9-01) Recove	98 % 99 % 12/23/24 10 349 2ry: 105 % 99 %	Limits: 50-150 9 50-150 9 :00 Analyzed: 12 mg/kg dry 2 Limits: 50-150 9	2/25/24 (0000 66	01:34 Dilt	tion: Ix " 4370 tion: Ix	 er				
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Duplicate (24L0900-DUP2) OC Source Sample: 24-63060 D8- NWTPH-Gx (MS) Gasoline Range Organics Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Batch 24L0911 - EPA 5030C Blank (24L0911-BLK1)	12' (A4L160	Prepared: 9-01) Recove	98 % 99 % 12/23/24 10 349 2ry: 105 % 99 %	Limits: 50-150 9 50-150 9 :00 Analyzed: 12 mg/kg dry 2 Limits: 50-150 9	2/25/24 (0000 66	01:34 Dilt	4370 tion: Ix "	 er				
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Duplicate (24L0900-DUP2) OC Source Sample: 24-63060 D8- NWTPH-Gx (MS) Gasoline Range Organics Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Batch 24L0911 - EPA 5030C Blank (24L0911-BLK1) NWTPH-Gx (MS)	12' (A4L166	Prepared: 9-01) Recove	349 2ry: 105 % 99 % 12/23/24 10 349 2ry: 105 % 99 %	Limits: 50-150 9 50-150 9 :00 Analyzed: 12 mg/kg dry 2 Limits: 50-150 9 :00 Analyzed: 12	2/25/24 (0000 6 6	01:34 Dilt	4370 tion: Ix "	 er				
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Duplicate (24L0900-DUP2) OC Source Sample: 24-63060 D8- NWTPH-Gx (MS) Gasoline Range Organics Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur) Batch 24L0911 - EPA 5030C Blank (24L0911-BLK1)	12' (A4L160	Prepared: Prepared: Prepared: Prepared:	98 % 99 % 12/23/24 10 349 2ry: 105 % 99 %	Limits: 50-150 9 50-150 9 :00 Analyzed: 12 mg/kg dry 2 Limits: 50-150 9 :00 Analyzed: 12	2/25/24 (0000 2/24/24)	01:34 Dih	4370 tion: Ix "	 er				

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ORELAP ID: OR100062

Alpha Environmental
11080 SW Allen Blvd, Suite 100

Beaverton, OR 97005

Project: <u>Default- Env Dept.</u>

Project Number: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range H	lydrocarbo	ns (Benz	zene thro	ugh Naphi	thalene) l	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0911 - EPA 5030C							Wat	er				
LCS (24L0911-BS2)		Prepared	: 12/24/24 15:0	00 Analyz	zed: 12/24/2	4 17:47						
NWTPH-Gx (MS)			100	~								
Gasoline Range Organics	481		100	ug/L	1	500		96 8	30 - 120%			
Surr: 4-Bromofluorobenzene (Sur)		Rece	overy: 97 %	Limits: 50	0-150 %	Dilı	tion: 1x					
1,4-Difluorobenzene (Sur)			104 %	50	0-150 %		"					

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

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QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range H	ydrocarbo	ns (Benz	ene thro	ugh Naph	thalene)	by NWTF	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0985 - EPA 5030C							Wat	er				
Blank (24L0985-BLK1)		Prepared:	12/27/24 10:	00 Analyz	red: 12/27/2	4 15:14						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		100	ug/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 88 %	Limits: 50	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			109 %	50)-150 %		"					
LCS (24L0985-BS2)		Prepared:	12/27/24 10:	00 Analyz	red: 12/27/2	4 14:52						
NWTPH-Gx (MS)												
Gasoline Range Organics	496		100	ug/L	1	500		99	80 - 120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 97 %	Limits: 50	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			109 %	50	-150 %		"					

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

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QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range H	ydrocarbo	ns (Ben	zene thro	ugh Naph	thalene)	by NWTF	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0991 - EPA 5035A							Soil					
Blank (24L0991-BLK1)		Prepared:	12/27/24 11:	56 Analyz	zed: 12/27/24	4 17:32						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		5.00	mg/kg w	vet 50							
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 94 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			92 %	5(0-150 %		"					
LCS (24L0991-BS2)		Prepared:	12/27/24 11:	56 Analyz	zed: 12/27/24	4 17:05						
NWTPH-Gx (MS)												
Gasoline Range Organics	20.8		5.00	mg/kg w	vet 50	25.0		83	80 - 120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 96 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			92 %	50	0-150 %		"					

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

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QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasoli	ne Range H	ydrocarbo	ns (Benz	ene thro	ugh Naph	thalene)	by NWTF	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L1029 - EPA 5035A							Soil					
Blank (24L1029-BLK1)		Prepared:	12/30/24 10:	:00 Analyz	ed: 12/30/2	4 12:19						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		5.00	mg/kg w	et 50							
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 99 %	Limits: 50	0-150 %	Dilı	tion: 1x					
1,4-Difluorobenzene (Sur)			98 %	50	-150 %		"					
LCS (24L1029-BS2)		Prepared:	12/30/24 10:	:00 Analyz	ed: 12/30/2	4 11:52						
NWTPH-Gx (MS)												
Gasoline Range Organics	24.0		5.00	mg/kg w	et 50	25.0		96	80 - 120%			
Surr: 4-Bromofluorobenzene (Sur)		Recove	ery: 102 %	Limits: 50	0-150 %	Dilı	tion: 1x					
1,4-Difluorobenzene (Sur)			98 %	50	-150 %		"					

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

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QUALITY CONTROL (QC) SAMPLE RESULTS

		Sele	cted Volatil	e Organi	c Compo	unds by E	PA 8260	<u> </u>				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0911 - EPA 5030C							Wat	er				
Blank (24L0911-BLK1)		Prepared	: 12/24/24 15:	00 Analyz	ed: 12/24/2	4 18:21						
EPA 8260D												
Benzene	ND		0.200	ug/L	1							
Toluene	ND		1.00	ug/L	1							
Ethylbenzene	ND		0.500	ug/L	1							
Xylenes, total	ND		1.50	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND		1.00	ug/L	1							
Naphthalene	ND		5.00	ug/L	1							
1,2-Dibromoethane (EDB)	ND		0.500	ug/L	1							
1,2-Dichloroethane (EDC)	ND		0.400	ug/L	1							
Isopropylbenzene	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							
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 106 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			105 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			103 %	80	1-120 %		"					
LCS (24L0911-BS1)		Prepared	: 12/24/24 15:	00 Analyz	red: 12/24/2	4 17:20						
EPA 8260D												
Benzene	20.2		0.200	ug/L	1	20.0		101	80 - 120%			
Toluene	19.8		1.00	ug/L	1	20.0		99	80 - 120%			
Ethylbenzene	21.6		0.500	ug/L	1	20.0		108	80 - 120%			
Xylenes, total	58.6		1.50	ug/L	1	60.0		98	80 - 120%			
Methyl tert-butyl ether (MTBE)	20.0		1.00	ug/L	1	20.0		100	80 - 120%			
Naphthalene	17.4		5.00	ug/L	1	20.0		87	80 - 120%			
1,2-Dibromoethane (EDB)	20.7		0.500	ug/L	1	20.0		103	80 - 120%			
1,2-Dichloroethane (EDC)	20.6		0.400	ug/L	1	20.0		103	80 - 120%			
Isopropylbenzene	18.5		1.00	ug/L	1	20.0		92	80 - 120%			
1,2,4-Trimethylbenzene	20.2		1.00	ug/L	1	20.0		101	80 - 120%			
1,3,5-Trimethylbenzene	21.8		1.00	ug/L	1	20.0		109	80 - 120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 100 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			101 %		120 %		"					
4-Bromofluorobenzene (Surr)			95 %		120 %		"					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Alpha Environmental Project: <u>Default- Env Dept.</u>

11080 SW Allen Blvd, Suite 100Project Number: 3939 NW St. Helens Rd 24-6Report ID:Beaverton, OR 97005Project Manager: Jim CooperA4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Detection Reporting Spike Source % REC RPD Analyte Result Ĺimit Units Dilution Amount Result % REC Limits RPD Limit Notes Limit

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

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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: <u>Default- Env Dept.</u>

Project Number: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

		Sele	cted Volatil	e Organi	c Compo	unds by E	PA 8260	D				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0985 - EPA 5030C							Wat	er				
Blank (24L0985-BLK1)		Prepared	: 12/27/24 10:	00 Analyz	ed: 12/27/2	4 15:14						
EPA 8260D												
Benzene	ND		0.200	ug/L	1							
Toluene	ND		1.00	ug/L	1							
Ethylbenzene	ND		0.500	ug/L	1							
Xylenes, total	ND		1.50	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND		1.00	ug/L	1							
Naphthalene	ND		5.00	ug/L	1							
1,2-Dibromoethane (EDB)	ND		0.500	ug/L	1							
1,2-Dichloroethane (EDC)	ND		0.400	ug/L	1							
Isopropylbenzene	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							
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 105 %	Limits: 80)-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			107 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			111 %	80	-120 %		"					
LCS (24L0985-BS1)		Prepared	: 12/27/24 10:	00 Analyz	ed: 12/27/2	4 14:19						
EPA 8260D												
Benzene	21.2		0.200	ug/L	1	20.0		106	80 - 120%			
Toluene	21.0		1.00	ug/L	1	20.0		105	80 - 120%			
Ethylbenzene	22.7		0.500	ug/L	1	20.0		114	80 - 120%			
Xylenes, total	65.1		1.50	ug/L	1	60.0		109	80 - 120%			
Methyl tert-butyl ether (MTBE)	21.0		1.00	ug/L	1	20.0		105	80 - 120%			
Naphthalene	16.8		5.00	ug/L	1	20.0		84	80 - 120%			
1,2-Dibromoethane (EDB)	21.5		0.500	ug/L	1	20.0		107	80 - 120%			
1,2-Dichloroethane (EDC)	23.3		0.400	ug/L	1	20.0		117	80 - 120%			
sopropylbenzene	20.3		1.00	ug/L	1	20.0		102	80 - 120%			
1,2,4-Trimethylbenzene	22.4		1.00	ug/L	1	20.0		112	80 - 120%			
1,3,5-Trimethylbenzene	22.6		1.00	ug/L	1	20.0		113	80 - 120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 102 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			102 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			89 %	80	-120 %		"					

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ORELAP ID: OR100062

Alpha Environmental Project: <u>Default- Env Dept.</u>

 11080 SW Allen Blvd, Suite 100
 Project Number: 3939 NW St. Helens Rd 24-6
 Report ID:

 Beaverton, OR 97005
 Project Manager: Jim Cooper
 A4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Detection Reporting Spike Source % REC RPD Result Ĺimit Units Dilution Amount Result % REC Limits RPD Analyte Limit Notes Limit

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

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

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11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005 Project: **Default- Env Dept.**

Project Number: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0900 - EPA 5035A							Soil					
Blank (24L0900-BLK1)		Prepared	: 12/24/24 13:	08 Analyze	d: 12/24/2	4 15:31						
5035A/8260D				-								
Benzene	0.0120		0.0100	mg/kg we	t 50							В
Toluene	ND		0.0500	mg/kg we	t 50							
Ethylbenzene	ND		0.0250	mg/kg we	t 50							
Xylenes, total	ND		0.0750	mg/kg we	t 50							
Methyl tert-butyl ether (MTBE)	ND		0.0500	mg/kg we	t 50							
Naphthalene	ND		0.100	mg/kg we	t 50							
1,2-Dibromoethane (EDB)	ND		0.0500	mg/kg we	t 50							
1,2-Dichloroethane (EDC)	ND		0.0250	mg/kg we	t 50							
Isopropylbenzene	ND		0.0500	mg/kg we	t 50							
1,2,4-Trimethylbenzene	ND		0.0500	mg/kg we	t 50							
1,3,5-Trimethylbenzene	ND		0.0500	mg/kg we	t 50							
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 105 %	Limits: 80-		Dilı	ution: 1x					
Toluene-d8 (Surr)			96 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			99 %	79-	120 %		"					
LCS (24L0900-BS1)		Prepared	: 12/24/24 13:	08 Analyze	ed: 12/24/2	4 14:36						
5035A/8260D												
Benzene	1.01		0.0100	mg/kg we	t 50	1.00		101	80 - 120%			В
Toluene	0.958		0.0500	mg/kg we	t 50	1.00		96	80 - 120%			
Ethylbenzene	1.03		0.0250	mg/kg we	t 50	1.00		103	80 - 120%			
Xylenes, total	3.07		0.0750	mg/kg we	t 50	3.00		102	80 - 120%			
Methyl tert-butyl ether (MTBE)	1.01		0.0500	mg/kg we	t 50	1.00		101	80 - 120%			
Naphthalene	0.918		0.100	mg/kg we	t 50	1.00		92	80 - 120%			
1,2-Dibromoethane (EDB)	1.08		0.0500	mg/kg we	t 50	1.00		108	80 - 120%			
1,2-Dichloroethane (EDC)	0.998		0.0250	mg/kg we	t 50	1.00		100	80 - 120%			
sopropylbenzene	1.02		0.0500	mg/kg we	t 50	1.00		102	80 - 120%			
1,2,4-Trimethylbenzene	1.03		0.0500	mg/kg we	t 50	1.00		103	80 - 120%			
1,3,5-Trimethylbenzene	1.04		0.0500	mg/kg we		1.00		104	80 - 120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 103 %	Limits: 80-	120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			97 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			97%	79-	120 %		"					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Alpha Environmental Project: Default- Env Dept.

11080 SW Allen Blvd, Suite 100 Project Number: 3939 NW St. Helen

 11080 SW Allen Blvd, Suite 100
 Project Number: 3939 NW St. Helens Rd 24-6
 Report ID:

 Beaverton, OR 97005
 Project Manager: Jim Cooper
 A4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

		Selected	d Volatile C	organic Co	mpound	ls by EPA	5035A/82	260D				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L0900 - EPA 5035A							Soil					
Duplicate (24L0900-DUP1)		Prepared	: 12/23/24 10:	:15 Analyze	ed: 12/25/2	4 00:39						
QC Source Sample: 24-63060 D8-1	17' (A4L160	<u> </u>										
5035A/8260D												
Benzene	ND		0.363	mg/kg dr	y 1000		ND				30%	
Toluene	ND		1.82	mg/kg dr	y 1000		ND				30%	
Ethylbenzene	25.3		0.908	mg/kg dr	y 1000		24.6			3	30%	
Xylenes, total	38.9		2.72	mg/kg dr	y 1000		38.2			2	30%	
Methyl tert-butyl ether (MTBE)	ND		1.82	mg/kg dr	y 1000		ND				30%	
Naphthalene	ND		3.63	mg/kg dr	y 1000		2.82			***	30%	
1,2-Dibromoethane (EDB)	ND		1.82	mg/kg dr	y 1000		ND				30%	
1,2-Dichloroethane (EDC)	ND		0.908	mg/kg dr	y 1000		ND				30%	
sopropylbenzene	2.34		1.82	mg/kg dr	y 1000		2.34			0	30%	
1,2,4-Trimethylbenzene	33.8		1.82	mg/kg dr	y 1000		33.1			2	30%	
1,3,5-Trimethylbenzene	9.76		1.82	mg/kg dr	y 1000		9.88			1	30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 105 %	Limits: 80-	120 %	Dili	ution: 1x					
Toluene-d8 (Surr)			98 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			97 %	79-	120 %		"					
Duplicate (24L0900-DUP2)		Prepared	: 12/23/24 10:	:00 Analyze	ed: 12/25/2	4 01:34						
QC Source Sample: 24-63060 D8-1	2' (A4L160	<u>59-01)</u>										
5035A/8260D												
Benzene	ND		0.698	mg/kg dr	y 2000		ND				30%	
Toluene	ND		3.49	mg/kg dr	y 2000		ND				30%	
Ethylbenzene	175		1.74	mg/kg dr	y 2000		176			0.7	30%	
Xylenes, total	ND		5.23	mg/kg dr	y 2000		3.98			***	30%	
Methyl tert-butyl ether (MTBE)	ND		3.49	mg/kg dr	y 2000		ND				30%	
Naphthalene	24.7		6.98	mg/kg dr	y 2000		24.0			3	30%	
1,2-Dibromoethane (EDB)	ND		3.49	mg/kg dr	y 2000		ND				30%	
,2-Dichloroethane (EDC)	ND		1.74	mg/kg dr	y 2000		ND				30%	
sopropylbenzene	22.0		3.49	mg/kg dr	y 2000		21.5			2	30%	
1,2,4-Trimethylbenzene	70.1		3.49	mg/kg dr	y 2000		71.8			2	30%	
1,3,5-Trimethylbenzene	6.88		3.49	mg/kg dr	y 2000		7.26			5	30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 105 %	Limits: 80-	120 %	Dili	ution: 1x					
Toluene-d8 (Surr)			95 %		120 %		"					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Alpha Environmental Project: Default- Env Dept.

 11080 SW Allen Blvd, Suite 100
 Project Number: 3939 NW St. Helens Rd 24-6
 Report ID:

 Beaverton, OR 97005
 Project Manager: Jim Cooper
 A4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

Detection Reporting Spike Source % REC RPD Result Ĺimit Units Dilution Amount Result % REC RPD Analyte Limits Limit Notes Limit

Batch 24L0900 - EPA 5035A Soil

Duplicate (24L0900-DUP2) Prepared: 12/23/24 10:00 Analyzed: 12/25/24 01:34

QC Source Sample: 24-63060 D8-12' (A4L1669-01)

Surr: 4-Bromofluorobenzene (Surr) Recovery: 99 % Limits: 79-120 % Dilution: 1x

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ORELAP ID: OR100062

Alpha Environmental
11080 SW Allen Blvd, Suite 100

Beaverton, OR 97005

Project: <u>Default- Env Dept.</u>

Project Number: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

		Selected	Volatile O	rganic Co	mpound	s by EPA	5035A/82	260D				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Note
Batch 24L0991 - EPA 5035A							Soil					
Blank (24L0991-BLK1)		Prepared:	12/27/24 11:	56 Analyze	d: 12/27/24	4 17:32						
5035A/8260D				-								
Benzene	ND		0.0100	mg/kg we	t 50							
Toluene	ND		0.0500	mg/kg we	t 50							
Ethylbenzene	ND		0.0250	mg/kg we	t 50							
Xylenes, total	ND		0.0750	mg/kg we								
Methyl tert-butyl ether (MTBE)	ND		0.0500	mg/kg we	t 50							
Naphthalene	ND		0.100	mg/kg we	t 50							
1,2-Dibromoethane (EDB)	ND		0.0500	mg/kg we	t 50							
1,2-Dichloroethane (EDC)	ND		0.0250	mg/kg we	t 50							
Isopropylbenzene	ND		0.0500	mg/kg we	t 50							
1,2,4-Trimethylbenzene	ND		0.0500	mg/kg we	t 50							
1,3,5-Trimethylbenzene	ND		0.0500	mg/kg we	t 50							
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 119 %	Limits: 80-	120 %	Dil	lution: 1x					
Toluene-d8 (Surr)			96 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			105 %	79-	120 %		"					
LCS (24L0991-BS1)		Prepared:	12/27/24 11:	56 Analyze	d: 12/27/24	4 16:34						
5035A/8260D												
Benzene	1.09		0.0100	mg/kg we	t 50	1.00		109	80 - 120%			
Toluene	0.912		0.0500	mg/kg we	t 50	1.00		91	80 - 120%			
Ethylbenzene	0.961		0.0250	mg/kg we	t 50	1.00		96	80 - 120%			
Xylenes, total	2.87		0.0750	mg/kg we	t 50	3.00		96	80 - 120%			
Methyl tert-butyl ether (MTBE)	0.967		0.0500	mg/kg we	t 50	1.00		97	80 - 120%			
Naphthalene	0.974		0.100	mg/kg we	t 50	1.00		97	80 - 120%			
1,2-Dibromoethane (EDB)	1.03		0.0500	mg/kg we	t 50	1.00		103	80 - 120%			
1,2-Dichloroethane (EDC)	0.874		0.0250	mg/kg we	t 50	1.00		87	80 - 120%			
Isopropylbenzene	0.999		0.0500	mg/kg we	t 50	1.00		100	80 - 120%			
1,2,4-Trimethylbenzene	0.985		0.0500	mg/kg we	t 50	1.00		99	80 - 120%			
1,3,5-Trimethylbenzene	1.01		0.0500	mg/kg we	t 50	1.00		101	80 - 120%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 119 %	Limits: 80-	120 %	Dil	lution: 1x					
Toluene-d8 (Surr)			97 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			102 %	79-	120 %		"					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Alpha Environmental Project: <u>Default- Env Dept.</u>

 11080 SW Allen Blvd, Suite 100
 Project Number: 3939 NW St. Helens Rd 24-6
 Report ID:

 Beaverton, OR 97005
 Project Manager: Jim Cooper
 A4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

		Detection	Reporting			Spike	Source		% REC		RPD	
Analyte	Result	Limit	Limit	Units	Dilution	Amount	Result	% REC	Limits	RPD	Limit	Notes

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

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ORELAP ID: OR100062

Alpha Environmental
11080 SW Allen Blvd, Suite 100

Beaverton, OR 97005

Project: **Default- Env Dept.**

Project Number: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

		Selected	d Volatile O	rganic Co	mpound	s by EPA	5035A/82	260D				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24L1029 - EPA 5035A							Soil					
Blank (24L1029-BLK1)		Prepared	: 12/30/24 10:	00 Analyze	ed: 12/30/2	4 12:19						
5035A/8260D				-								
Benzene	ND		0.0100	mg/kg we	et 50							
Toluene	ND		0.0500	mg/kg we	et 50							
Ethylbenzene	ND		0.0250	mg/kg we	t 50							
Xylenes, total	ND		0.0750	mg/kg we	et 50							
Methyl tert-butyl ether (MTBE)	ND		0.0500	mg/kg we	et 50							
Naphthalene	ND		0.100	mg/kg we	et 50							
1,2-Dibromoethane (EDB)	ND		0.0500	mg/kg we								
1,2-Dichloroethane (EDC)	ND		0.0250	mg/kg we	et 50							
Isopropylbenzene	ND		0.0500	mg/kg we	et 50							
1,2,4-Trimethylbenzene	ND		0.0500	mg/kg we	t 50							
1,3,5-Trimethylbenzene	ND		0.0500	mg/kg we	t 50							
Surr: 1,4-Difluorobenzene (Surr)		Recon	very: 104 %	Limits: 80-	120 %	Dil	lution: 1x					
Toluene-d8 (Surr)			96 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			99 %	79-	120 %		"					
LCS (24L1029-BS1)		Prepared	: 12/30/24 10:	00 Analyze	ed: 12/30/2	4 11:25						
5035A/8260D												
Benzene	1.04		0.0100	mg/kg we	t 50	1.00		104	80 - 120%			
Toluene	0.947		0.0500	mg/kg we	et 50	1.00		95	80 - 120%			
Ethylbenzene	0.992		0.0250	mg/kg we	et 50	1.00		99	80 - 120%			
Xylenes, total	2.98		0.0750	mg/kg we	t 50	3.00		99	80 - 120%			
Methyl tert-butyl ether (MTBE)	1.04		0.0500	mg/kg we	t 50	1.00		104	80 - 120%			
Naphthalene	0.908		0.100	mg/kg we	t 50	1.00		91	80 - 120%			
1,2-Dibromoethane (EDB)	1.10		0.0500	mg/kg we	t 50	1.00		110	80 - 120%			
1,2-Dichloroethane (EDC)	1.02		0.0250	mg/kg we	t 50	1.00		102	80 - 120%			
Isopropylbenzene	0.983		0.0500	mg/kg we	t 50	1.00		98	80 - 120%			
1,2,4-Trimethylbenzene	1.01		0.0500	mg/kg we	et 50	1.00		101	80 - 120%			
1,3,5-Trimethylbenzene	1.02		0.0500	mg/kg we	et 50	1.00		102	80 - 120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 104 %	Limits: 80-	120 %	Dil	lution: 1x					
Toluene-d8 (Surr)			98 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			99 %	79-	120 %		"					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Alpha Environmental Project: Default- Env Dept.

 11080 SW Allen Blvd, Suite 100
 Project Number: 3939 NW St. Helens Rd 24-6
 Report ID:

 Beaverton, OR 97005
 Project Manager: Jim Cooper
 A4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 5035A/8260D

		Detection	Reporting			Spike	Source		% REC		RPD	
Analyte	Result	Limit	Limit	Units	Dilution	Amount	Result	% REC	Limits	RPD	Limit	Notes

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

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Alpha Environmental Project: Default- Env Dept.

 11080 SW Allen Blvd, Suite 100
 Project Number: 3939 NW St. Helens Rd 24-6
 Report ID:

 Beaverton, OR 97005
 Project Manager: Jim Cooper
 A4L1669 - 01 06 25 1856

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Wei	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits I	RPD	RPD Limit	Notes
Batch 24L0936 - Dry	Weight Prep (EPA 8	3000D)					Soil					

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

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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: 3939 NW St. Helens Rd 24-6

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

SAMPLE PREPARATION INFORMATION

Prep: EPA 5030C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 24L0985							
A4L1669-09RE1	Water	NWTPH-Gx (MS)	12/23/24 11:00	12/27/24 15:01	5mL/5mL	5mL/5mL	1.00
A4L1669-10RE1	Water	NWTPH-Gx (MS)	12/23/24 11:30	12/27/24 15:01	5mL/5mL	5mL/5mL	1.00
A4L1669-11	Water	NWTPH-Gx (MS)	12/23/24 11:00	12/27/24 15:01	5mL/5mL	5mL/5mL	1.00
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 24L0900							
A4L1669-01	Soil	NWTPH-Gx (MS)	12/23/24 10:00	12/23/24 10:00	5.46g/5mL	5g/5mL	0.92
A4L1669-02	Soil	NWTPH-Gx (MS)	12/23/24 10:10	12/23/24 10:10	5.97g/5mL	5g/5mL	0.84
A4L1669-04	Soil	NWTPH-Gx (MS)	12/23/24 10:15	12/23/24 10:15	5.35g/5mL	5g/5mL	0.94
A4L1669-06	Soil	NWTPH-Gx (MS)	12/23/24 11:30	12/23/24 11:30	5.34g/5mL	5g/5mL	0.94
A4L1669-07	Soil	NWTPH-Gx (MS)	12/23/24 11:35	12/23/24 11:35	3.42g/5mL	5g/5mL	1.46
A4L1669-08	Soil	NWTPH-Gx (MS)	12/23/24 11:40	12/23/24 11:40	5.45g/5mL	5g/5mL	0.92
Batch: 24L1029							
A4L1669-03RE2	Soil	NWTPH-Gx (MS)	12/23/24 10:15	12/23/24 10:15	5.34g/5mL	5g/5mL	0.94
A4L1669-05RE2	Soil	NWTPH-Gx (MS)	12/23/24 10:20	12/23/24 10:20	5.74g/5mL	5g/5mL	0.87

		Selected Vol	atile Organic Compo	unds by EPA 8260D)		
Prep: EPA 5030C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 24L0985							
A4L1669-09RE1	Water	EPA 8260D	12/23/24 11:00	12/27/24 15:01	5mL/5mL	5mL/5mL	1.00
A4L1669-10RE1	Water	EPA 8260D	12/23/24 11:30	12/27/24 15:01	5mL/5mL	5mL/5mL	1.00
A4L1669-11	Water	EPA 8260D	12/23/24 11:00	12/27/24 15:01	5mL/5mL	5mL/5mL	1.00

		Selected Volatile	Organic Compound	ls by EPA 5035A/82	60D		
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 24L0900							
A4L1669-01	Soil	5035A/8260D	12/23/24 10:00	12/23/24 10:00	5.46g/5mL	5g/5mL	0.92
A4L1669-02	Soil	5035A/8260D	12/23/24 10:10	12/23/24 10:10	5.97g/5mL	5g/5mL	0.84
A4L1669-04	Soil	5035A/8260D	12/23/24 10:15	12/23/24 10:15	5.35g/5mL	5g/5mL	0.94
A4L1669-06	Soil	5035A/8260D	12/23/24 11:30	12/23/24 11:30	5.34g/5mL	5g/5mL	0.94
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Project: Default- Env Dept.
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11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005

Project Manager: Jim Cooper

Report ID: A4L1669 - 01 06 25 1856

SAMPLE PREPARATION INFORMATION

		Selected Volatile	e Organic Compound	ls by EPA 5035A/82	60D		
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A4L1669-07	Soil	5035A/8260D	12/23/24 11:35	12/23/24 11:35	3.42g/5mL	5g/5mL	1.46
A4L1669-08	Soil	5035A/8260D	12/23/24 11:40	12/23/24 11:40	5.45g/5mL	5g/5mL	0.92
Batch: 24L1029							
A4L1669-03RE2	Soil	5035A/8260D	12/23/24 10:15	12/23/24 10:15	5.34g/5mL	5g/5mL	0.94
A4L1669-05RE2	Soil	5035A/8260D	12/23/24 10:20	12/23/24 10:20	5.74g/5mL	5g/5mL	0.87

			Percent Dry We	ight			
Prep: Dry Weight	Prep (EPA 8000D)			Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 24L0936							
A4L1669-01	Soil	EPA 8000D	12/23/24 10:00	12/26/24 10:28	1g	1g	1.00
A4L1669-02	Soil	EPA 8000D	12/23/24 10:10	12/26/24 10:28	1g	1g	1.00
A4L1669-03	Soil	EPA 8000D	12/23/24 10:15	12/26/24 10:28	1g	1g	1.00
A4L1669-04	Soil	EPA 8000D	12/23/24 10:15	12/26/24 10:28	1g	1g	1.00
A4L1669-05	Soil	EPA 8000D	12/23/24 10:20	12/26/24 10:28	1g	1g	1.00
A4L1669-06	Soil	EPA 8000D	12/23/24 11:30	12/26/24 10:28	1g	1g	1.00
A4L1669-07	Soil	EPA 8000D	12/23/24 11:35	12/26/24 10:28	1g	1g	1.00
A4L1669-08	Soil	EPA 8000D	12/23/24 11:40	12/26/24 10:28	1g	1g	1.00

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QUALIFIER DEFINITIONS

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

Apex Laboratories

В Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)

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 ${\it The results in this report apply to the samples analyzed in accordance with the chain of}$ custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Cameron O'Brien, Project Manager



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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.

Beaverton, OR 97005

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

<u>Detection Limits:</u> 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 one half of the Reporting Limit (RL).

Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.

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

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

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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.

Project:

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

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11080 SW Allen Blvd, Suite 100 Project Number: 3939 NW St. Helens Rd 24-6

Beaverton, OR 97005 Project Manager: Jim Cooper A4L1669 - 01 06 25 1856

Decanted Samples:

Soils/Sediments:

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

(B)



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 Project Number: 3939 NW St. Helens Rd 24-6
 Report ID:

 Beaverton, OR 97005
 Project Manager: Jim Cooper
 A4L1669 - 01 06 25 1856

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 <u>exception</u> of any analyte(s) listed below:

Apex Laboratories

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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Beaverton, OR 97005

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	APEX LABS COOLER RECEIPT FORM
Client: A pho	Element WO#: A4 L1 (069
Project/Project #: 34	139 NW ST HELENS RD /24-63060
Delivery Info:	
Date/time received: 12	123/24 @ 1600 By: JPE
	lient ESS FedEx UPS Radio Morgan SDS Evergreen Other
From USDA Regulated	
Cooler Inspection I	Date/time inspected: 12/23/24@ 1628 By: JPE
Chain of Custody include	
Signed/dated by client?	
Contains USDA Reg. So	
2	Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7
Temperature (°C)	1.9
Custody seals? (Y/N)	\sim
Received on ice? (N)	
Temp. blanks?((N))	
	er) Gelletze
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Sample Inspection: All samples intact? Yes Bottle labels/COCs agre COC/container discrepant Containers/volumes reconstruction Do VOA vials have visit Comments 3/3 NOV	the? Yes \(\sum_{\text{No}} \) No \(\sum_{\text{Comments:}} \) Incides form initiated? Yes \(\sum_{\text{No}} \) No \(\sum_{\text{Comments:}} \) Every displayed appropriate for analysis? Yes \(\sum_{\text{No}} \) No \(\sum_{\text{Comments:}} \) Shower Sed for \(\sum_{\text{Oq}} \) and \(\sum_{\text{DiO}} \)
Sample Inspection: All samples intact? Yes Bottle labels/COCs agre COC/container discrepant Containers/volumes rece Do VOA vials have visil Comments 30 0000000000000000000000000000000000	ble headspace? Yes No NA No NA No
Sample Inspection: All samples intact? Yes Bottle labels/COCs agre COC/container discrepant Containers/volumes reconstruction Do VOA vials have visit Comments 3/3 NOV	ble headspace? Yes No No Comments: ble headspace? Yes No NA S Vall Sed by D9 and D10 cked: Yes No NA pH appropriate? Yes No NA pH ID: A23I 442
Sample Inspection: All samples intact? Yes Bottle labels/COCs agre COC/container discrepant Containers/volumes rece Do VOA vials have visil Comments 22 VOV Water samples: pH chec	ble headspace? Yes No No Comments: ble headspace? Yes No NA S Wall Sed &r Dq and Dio cked: Yes No NA pH ID: A231 442
Sample Inspection: All samples intact? Yes Bottle labels/COCs agre COC/container discrepant Containers/volumes rece Do VOA vials have visil Comments 30 0000000000000000000000000000000000	ble headspace? Yes No NA No NA No

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