



OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK PROGRAM

**UNDERGROUND STORAGE TANK DECOMMISSIONING
CHECKLIST AND SITE ASSESSMENT REPORT**

A. FACILITY INFORMATION:

This report **MUST** be submitted by the underground storage tank permittee or tank owner, or the licensed DEQ Service Provider on their behalf, **within 30 days following completion of the tank decommissioning or change-in-service regardless of ongoing cleanup work.**

DEQ FACILITY NUMBER:	3111	
FACILITY NAME:	Former Emerald Chrysler Products	
FACILITY ADDRESS:	2300 West 7th Avenue Eugene, Oregon 97402	
PERMITTEE PHONE:	541-912-1320	DATE: 8/8/2024

B. WORK PERFORMED BY:

The checklist and site assessment report should be completed and signed by the DEQ licensed supervisor and signed by an executive officer of the DEQ licensed Service Provider on page 6. The tank owner or permittee must review and sign the report on page 6. **NOTE: AN OWNER OR PERMITTEE MAY PERFORM UST SERVICES ONLY IF THEY HAVE TAKEN AND PASSED THE APPROPRIATE UST SUPERVISOR EXAMINATION OFFERED BY A NATIONAL TESTING SERVICE (SEE OAR 340-150-0156 for requirements).**

DEQ Service Provider's License #:	10974	Construction Contractors Board License #:	76509
Name:	Bergeson-Boese & Associates, Inc.		
Telephone:	541-484-9484		
DEQ Decommissioning Supervisor's License #:	27501		
Name:	Matthew Luczak		
Telephone:	541-484-9484		
DEQ Soil Matrix Service Provider's License #:			(If applicable)
Name:			
Telephone:			
DEQ Soil Matrix Supervisor's License #:			(If applicable)
Name:			
Telephone:			

C. DATES:

Decommissioning/Change-in-Service Notice - Date Submitted: 7/3/2024 (30 days before work starts).

Work Start Telephone Notice - Number issued by DEQ: _____ (3 working days before work starts).

DEQ Person Notified: Dave Pardue

Date Work Started: 7/18/2024 Date Work Completed: 7/18/2024

Note: Provide the following information if any soil or water contamination is found during the decommissioning or change-in-service. Contamination must be reported by the UST permittee within 24 hours. The licensed service provider must report contamination within 72 hours after discovery unless previously reported.

Date Contamination Reported: 8/1/2024 By: Matthew Luczak

DEQ Person Notified: YourDEQ Online Submittal

D. OTHER DEQ PERMITS MAY BE NEEDED WHERE SOIL OR WATER CLEANUP IS REQUIRED.

DEQ Water Discharge Permit #: _____ Date: _____

Water Disposed to (Location): _____

DEQ Solid Waste Disposal Permit #: _____ Date: _____

Soil Disposal or Treatment Location: _____

E. TANK INFORMATION:

TANK ID #	DEQ-UST PERMIT #	TANK SIZE IN GALLONS	PRODUCT: GASOLINE, DIESEL, USED OIL, OTHER?		CLOSURE OR CHANGE-IN- SERVICE?			TANK TO BE REPLACED?	
			PRESENT	NEW	TANK REMOVAL	CLOSURE IN PLACE ♦	CHANGE IN SERVICE ♦	YES	NO
1		3000	Unknown		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NOTE 1: Where decommissioned tank(s) are replaced by new underground storage tanks the UST permittee must submit a *General Permit Registration Form to Install and Operate USTs* containing information on the new tanks 30 days before installing them.

NOTE 2: Submit a soil sampling plan to the DEQ regional office and receive plan approval prior to starting work if 1) tank is to be decommissioned in-place, 2) tank contents are changed to a non-regulated substance, 3) tank contains a regulated substance other than petroleum, or 4) tank changed to non-regulated use.

F. DISPOSAL INFORMATION:

TANK ID #	TANK AND PIPING DISPOSAL METHOD				DISPOSAL LOCATION OF TANK CONTENTS	
	SCRAP	LAND-FILL	OTHER	IDENTIFY LOCATION & PROPERTY OWNER	LIQUIDS	SLUDGES
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Tank filled with sand upon	and piping cut upon arrival.
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

NOTE 1: The tank contents, the tank and the piping may be subject to the requirements of Hazardous Waste regulations. If you have questions, contact the DEQ regional office for your area.

NOTE 2: Attach copies of the disposal receipts for the tanks and piping. If the tanks are shipped off-site for reuse provide the name, address and phone number of the person or business receiving the tanks for reuse.

NOTE 3: Attach copies of the disposal receipts for the disposal or treatment of liquid or sludge removed from the tanks

G. CONTAMINATION INFORMATION:

TANK ID #	GROUND WATER IN PIT ?	PRODUCT ODOR IN SOIL ?	PRODUCT STAINS IN SOIL ?	NUMBER OF SAMPLES	LABORATORY (NAME, CITY, STATE, PHONE)
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	Apex Laboratories, 6700 SW Sandburg St Tigard, OR 97223
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

NOTE 1: Attach a copy of the laboratory report showing the results of all tests on all soil and water samples. The laboratory report must identify sample collection methods, sample location, sample depth, sample type (soil or water), type of sample container, sample temperature during transportation, types of tests, and copies of analytical laboratory reports, including QA/QC information. Include laboratory name, address and copies of chain-of-custody forms.

NOTE 2: If contamination is detected, DEQ requires you notify both the UST Program and Clean Up Program within 24 hours of observed contamination and/or analytical results. You must submit a [20 Day Report Form for UST Cleanup Projects](#) to the Cleanup Program and attach a copy of the form to this checklist.

H. SITE SKETCH: (Show location of adjacent roads, property lines, structures, dispensers, & all USTs. Show North, general direction of ground slope and soil sample locations. Sketch does not need to be drawn to scale. You may attach a separate drawing.)

Attached UST Decommissioning Narrative also includes:

Attachment A: Site Figures

Attachment B: Site Photos

Attachment C: Push Probe Boring Logs

Attachment D: Laboratory Analytical Report and Chain-of-Custody Documents

I. SAFETY EQUIPMENT ON JOB SITE:

Fire Extinguisher:	Type/Size: <u>Type ABC/20lb.</u>	Recharge Date: <u></u>
Combustible Gas Detector:	Model: <u>RKI Instruments GX-2012</u>	Calibration Date: <u>7/18/2024</u>
Oxygen Analyzer:	Model: <u>RKI Instruments GX-2012</u>	Calibration Date: <u>7/18/2024</u>

J. DECOMMISSIONING:

All Tanks: N/A = Not Applicable (Check (√) Appropriate Box)	YES	NO	UNKNOWN	N/A
1. All electrical equipment grounded and explosion proof?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Safety equipment on job site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Overhead electrical lines located?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Subsurface electrical lines off or disconnected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Natural gas lines off or disconnected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. No open fires or smoking material in area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Vehicle and pedestrian traffic controlled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Excavation material area cleared?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Rainwater runoff directed to treatment area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Drained and collected product from lines?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Removed product and residual from tank?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Cleaned tank?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. Excavated to top of tank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Removed tank fixtures? (pumps, leak detection equipment)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Removed product, fill and vent lines?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

K. TANK ABANDONMENT IN-PLACE:

All Tanks: N/A = Not Applicable (Check (√) Appropriate Box)	YES	NO	UNKNOWN	N/A
16. Sampling plan approved by DEQ? Date: <u>7/3/2024</u> DEQ Staff: <u>Dave Pardue</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Contamination concerns fully resolved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Fill Material? Type: <u>Sand</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

L. TANK REMOVAL:

All Tanks: N/A = Not Applicable (Check (√) Appropriate Box)	YES	NO	UNKNOWN	N/A
19. Tank placement area cleared, chocks placed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Purged or ventilated tank to prevent explosion? Method used: _____ Meter reading: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Were chains or steel cables wrapped around tank for removal?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Tank removed, set on ground, blocked to prevent movement?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23. Tank set on truck and secured with straps(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24. Tank labeled before leaving site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

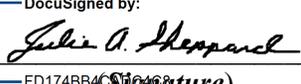
M. SITE ASSESSMENT:

All Tanks: N/A = Not Applicable (Check (√) Appropriate Box)	YES	NO	UNKNOWN	N/A
25. Site assessed for contamination? See OAR 340-122-0340	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26. Soil samples taken and analyzed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27. Was contamination found? Date/Time: <u>7/18/2024</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28. Was hazardous waste determination made for tank contents (Liquids/sludges)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

N. REQUIRED SIGNATURES:

I have personally reviewed this decommissioning checklist and site assessment report and the attachments and find them to be true and complete.

Permittee or Tank Owner: Sheppard Investments, LLC by Julie Sheppard, Manager
(Please Print)

Permittee or Tank Owner:  Date: 8/7/2024
DocuSigned by: FD174BB4C510246C (Signature)

I have personally reviewed this decommissioning checklist and site assessment report and the attachments and find them to be true and complete.

Licensed Supervisor: Matthew Luczak
(Please Print)

Licensed Supervisor:  Date: 8/7/2024
(Signature)

I have personally reviewed this decommissioning checklist and site assessment report and the attachments and find them to be true and complete.

Executive Officer: Randall J. Boese, RG/LHG
Licensed Service Provider (Please Print)

Executive Officer:  Date: 8/7/2024
Licensed Service Provider (Signature)

O. REPORT FILING:

This report signed by the permittee or tank owner, licensed supervisor and executive officer of the Service Provider, complete with all applicable attachments, must be filed with the DEQ regional office within 30 days after the excavation is backfilled or change-in-service is complete. **Do not wait until any site related cleanup project is completed.** Contact the DEQ regional office prior to filing this report where special circumstances exist at the site (such as water in pit, remaining pockets of contamination, etc.).

P. HELP WITH THIS REPORT:

If you have any questions about this decommissioning checklist and site assessment report, please phone your DEQ Regional Office. You can also phone the UST Program’s toll-free number, 1-800-742-7878. This is a message answering machine for calls made within Oregon. Underground Storage Tank Program staff will return your calls within 24 hours. You can also send an e-mail to tanks.info@deq.oregon.gov. Our regional staff are also available to answer questions regarding tank decommissioning or change-in-service requirements (see below for telephone numbers).

Q. COPIES OF THE GENERAL PERMIT TO DECOMMISSION OR COMPLETE A CHANGE-IN-SERVICE:

Obtain copies of the general permit to decommission or complete a change-in-service conditions and requirements, UST Program rules and laws and UST Cleanup rules and laws at:

1. Any of the DEQ offices listed below,
2. By calling the UST HELPLINE at 1-800-742-7878,
3. Send an e-mail to tanks.info@deq.oregon.gov or
4. Downloading from the UST home page at:

<https://www.oregon.gov/deq/tanks/Pages/UST-Forms.aspx>

<p>NORTHWEST REGION 700 NE MULTNOMAH ST. PORTLAND, OR 97232 Phone: 503-229-5263 Fax: 503-229-6945</p>	<p>WESTERN REGION / EUGENE 165 EAST 7TH AVE., SUITE 100 EUGENE, OR 97401 Phone: 541-686-7838 Fax: 541-686-7551</p>	<p>WESTERN REGION / MEDFORD 221 STEWART AVE., SUITE 201 MEDFORD, OR 97501 Phone: 541-776-6010 Fax: 541-776-6262</p>
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EUGENE
32986 Roberts Court, Coburg, OR 97408
P.O. Box 40187 Eugene, OR 97404
(541) 484-9484

PORTLAND
25195 SW Parkway Ave., Suite 207
Wilsonville, OR 97070
(503) 570-9484

UST DECOMMISSIONING NARRATIVE

PROJECT LOCATION

Former Emerald Chrysler Products (Facility ID# 3111)
2300 West 7th Avenue
Eugene, Oregon 97402

TANK INFORMATION

Size: Approximately 3,000 gallons
Product: Diesel
Release: DEQ Cleanup File #20-24-0560

Bergeson-Boese & Associates, Inc. (dba BB&A Environmental [BB&A]) was contacted to decommission an abandoned underground storage tank (UST) in-place at the above referenced site (see **Attachment A, Figure 1** and **2** for the Site Vicinity Map and Site Aerial).

Decommissioning

On July 18, 2024, BB&A was onsite at the *subject property* to decommission the UST in-place. The UST is approximately six (6) feet in diameter by 14 feet in length (approximately 3,000 gallons) and buried approximately three (3) feet below land surface (BLS). The asphalt above the UST was cut to allow for excavation and removal of soils to expose the top of the UST. Upon uncovering the top of the UST, one (1) approximately two (2) inch diameter hole was discovered presumably where the former fill pipe had been historically cut. The hole was enlarged, and BB&A confirmed the inside of the UST was filled with sand to approximately two (2) to three (3) inches of the top of the UST (photos included in **Attachment B**).

Additional excavation was conducted and a second approximately one (1) foot by two (2) foot hole, presumably utilized for the historical filling of the UST with sand, was discovered. The sand in this portion of the UST was compacted, indicating the UST was filled to capacity with sand. The smaller hole was further enlarged, and the remaining void within the UST was filled with sand and compacted to capacity.

Soil Sampling

As per Oregon Department of Environmental Quality (DEQ) in-place UST requirements, and the sampling and analysis plan prepared by BB&A and approved by DEQ, one (1) push probe boring was installed within six (6) inches of the west (P1), north (P2), south (P3) and east (P4) walls of the UST to a depth of approximately 15 feet BLS. The push probes were completed utilizing track mounted Geoprobe® tooling and sampling methodology. The soil sample tooling retrieves continuous cores of subsurface soil materials in plastic probe liners approximately five (5) feet in length.

No additional soil materials are generated using this sampling technology (i.e., all soils are contained within the continuous plastic probe liners). During completion of probing activities, a detailed log was recorded of geologic materials encountered in the push probes. Soil materials recovered in the continuous plastic probe liners were inspected for the presence of contamination by visual and olfactory observations, as well as field tested using an Organic Vapor Meter with Photoionization Detector (PID). No evidence of impact was observed in any of the push probes. Push probe boring logs are included in **Attachment C**.

At each push probe, one (1) soil sample was collected from moist soils at approximately eight (8) to nine (9) feet BLS, and the estimated bottom depth of the UST. An additional soil sample was collected from push probe P2 next to the former product line from approximately three (3) to four (4) feet BLS. Due to the UST being filled with sand upon arrival, one (1) sample (UST BACKFILL) was collected from the sand within the UST to determine if the material within the UST was impacted.

Soil samples were collected from the push probe liners and within the UST using Environmental Protection Agency (EPA) sampling method 5035, plus collection of a four (4) oz soil jar to capacity (i.e., no headspace). Groundwater samples were transferred using a peristaltic pump and clean disposable polyethylene tubing from the temporary well, into clean laboratory-supplied sample glassware with appropriate preservatives. The samples were given a unique identification, logged onto a chain-of-custody form, placed on synthetic ice in a cooler, and delivered to Apex Laboratory in Tigard, Oregon for analysis. All soil samples were analyzed for hydrocarbon identification by Northwest Method NWTPH-HCID, and any detections of gasoline- or diesel-/oil-range total petroleum hydrocarbons (TPH) were quantified by Northwest Methods NWTPH-Gx/Dx, respectively. All soil samples were also analyzed for benzene, toluene, ethylbenzene, xylene (BTEX), and naphthalene compounds by EPA Method 8260D. Copies of chain of custody forms and laboratory reports are included as **Attachment D**.

Concentrations of gasoline- and diesel-range TPH were not detected in any of the soil samples above their respective laboratory reporting limits (RLs) in the HCID analysis. Concentrations of oil-range TPH were detected in soil samples P1-8'-9' and P3-8'-9' above their respective laboratory RLs and were not detected in the remaining soil samples above their respective laboratory RLs in the HCID analysis. The detected concentrations of oil-range TPH in the HCID analysis were quantified by Northwest Method NWTPH-Dx. Concentrations of oil-range TPH were detected in soil samples P1-8'-9' (571 milligrams per kilogram [mg/kg] or parts per million [ppm]) and P3-8'-9' (422 ppm). Concentrations of BTEX and naphthalene compounds were not detected in any of the soil samples above their respective laboratory RLs.

Oregon DEQ does not have an established risk-based concentration (RBC) for oil-range TPH; however, the detected concentrations in soil samples P1-8'-9' and P3-8'-9' are below all RBCs for diesel-range TPH. The *Soil Ingestion, Dermal Contact & Inhalation* RBC is deemed to be incomplete as contamination soil occurs at depths of approximately eight (8) feet BLS. The soil sample analytical results are summarized in **Table 1** and shown on **Figure 4**.

Table 1: Soil Sample Analytical Results
Former Emerald Chrysler Products – 2300 W 7th Ave Eugene, OR

All concentrations in parts per million (ppm) or milligrams per kilogram (mg/kg)
ft BLS: Feet Below Land Surface
HCID: Hydrocarbon identification analysis
BTEX: Benzene, toluene, ethylbenzene, and xylene compounds
ND (<0.2): Indicates not detected above laboratory reporting limit identified in parenthesis, where shown
DET (>107): Indicates the contaminant was detected in the HCID analysis above the laboratory reporting limit identified in parenthesis
NS: Indicates no RBC exists for the contaminant
>Max: Indicates the RBC for the contaminant is greater than 1,000,000 mg/kg and deemed to not post a risk to this scenario
Bolded concentrations indicate the contaminant was detected above the laboratory reporting limit

Soil Sample Identification		Total Petroleum Hydrocarbons (TPH)				Volatile Organic Compounds (VOCs)	
		Gasoline-Range (HCID)	Diesel-Range (HCID)	Oil-Range (HCID)	Diesel-Range (NWTPH-Dx)	Oil-Range (NWTPH-Dx)	BTEX + Naphthalene
Soil Sample Location -Sample Depth ft BLS							
P1-8'-9'		ND (<21.4)	ND (<53.6)	DET (>107)	ND (<19.4)	571	ND (<Various)
P2-3'-4'		ND (<23.8)	ND (<59.6)	ND (<119)			ND (<Various)
P2-8'-9'		ND (<22.0)	ND (<54.6)	ND (<110)			ND (<Various)
P3-8'-9'		ND (<21.8)	ND (<54.6)	DET (>109)	ND (<19.4)	422	ND (<Various)
P4-8'-9'		ND (<22.5)	ND (<56.2)	ND (<112)			ND (<Various)
UST BACKFILL		ND (<20.6)	ND (<51.4)	ND (<103)			ND (<Various)
Oregon DEQ Risk-Based Concentrations (updated June 2023)							
Soil Ingestion, Dermal Contact & Inhalation (Deemed to be Incomplete)	Occupational	20,000	14,000	NS	14,000	NS	Various
	Construction Worker	9,700	4,600	NS	4,600	NS	Various
	Excavation Worker	>Max	>Max	NS	>Max	NS	Various
Volatilization to Outdoor Air	Occupational	69,000	>Max	NS	>Max	NS	Various
Leaching to Groundwater	Occupational	130	>Max	NS	>Max	NS	Various

Groundwater Sampling

As per the sampling and analysis plan prepared by BB&A and approved by DEQ, one (1) temporary PVC monitoring well was installed in push probe P1 after soil sampling activities were completed to allow for groundwater accumulation and sampling. The depth to groundwater in the temporary well was approximately 13.55 feet BLS. Groundwater was transferred from the temporary well using a peristaltic pump and clean disposable polyethylene tubing into clean laboratory-supplied sample glassware with appropriate preservatives. The sample was given a unique identification, logged onto a chain-of-custody form, placed on synthetic ice in a cooler, and delivered to Apex Laboratory in Tigard, Oregon for analysis for gasoline-, diesel- and oil-range TPH by Northwest Methods NWTPH-Gx/Dx, respectively, and BTEX compounds and naphthalene by EPA Method 8260D. Copies of chain of custody forms and laboratory reports are included as **Attachment D**.

Concentrations of gasoline- and diesel-range TPH were not detected in the groundwater sample above their respective laboratory RLs. Concentrations of oil-range TPH were detected in the groundwater sample at 430 micrograms per liter (µg/L) or parts per billion (ppb). Concentrations of BTEX compounds and naphthalene were not detected in the groundwater sample above their respective laboratory RLs.

Oregon DEQ does not have an established RBC for oil-range TPH; however, the detected concentrations in the groundwater sample are at or below all RBCs for diesel-range TPH. The *Ingestion & Inhalation from Tapwater* RBC is deemed to be incomplete as shallow groundwater is not utilized as a potable resource on or near the *subject property*, and city water is available. The groundwater sample analytical results are summarized in **Table 2** and shown on **Figure 4**.

Table 2: Groundwater Analytical Results					
Former Emerald Chrysler Products – 2300 W 7 th Ave Eugene, OR					
All concentrations in parts per billion (ppb) or micrograms per liter (ug/L)					
ND (<0.2): Indicates not detected above laboratory reporting limit identified in parenthesis, where shown					
Bolded concentrations indicate a value exceeding the laboratory reporting limit					
NS: Indicates no RBC exists for the contaminant					
>S: Indicates the groundwater risk-based concentration (RBC) exceeds the solubility limit.					
Groundwater Sample ID	Total Petroleum Hydrocarbons (TPH)			Volatile Organic Compounds (VOCs)	
	Gasoline-Range TPH	Diesel-Range TPH	Oil-Range TPH	BTEX + Naphthalene	
P1-GW	ND (<100)	ND (<76.9)	430	ND (<Various)	
Oregon DEQ Risk-Based Concentrations (updated June 2023)					
Ingestion & Inhalation from Tapwater (Deemed to be Incomplete)	Occupational	450	430	NS	Various
Volatilization to Outdoor Air	Occupational	>S	>S	NS	Various
Vapor Intrusion into Buildings	Occupational	520	1,700	NS	Various
Groundwater in Excavation	Construction/Excavation Worker	14,000	>S	NS	Various

Based on the detected concentration of oil-range TPH, BB&A reported a release to Oregon Department of Environmental Quality (DEQ) who subsequently assigned leaking underground storage tank (LUST) #20-24-0650 to the *subject property*. Concentrations of gasoline-, diesel-, and oil-range TPH, BTEX compounds and naphthalene in all soil and groundwater samples were detected at or below all RBCs or were not detected above their respective laboratory RLs.

Should you have any questions regarding the information presented in this narrative, please feel free to contact me at (541) 484-9484 or mluczak@bbaenv.com.

Sincerely,

BB&A Environmental



Matthew Luczak
Associate Geologist / Project Manager
HOT Supervisor License No. 27497



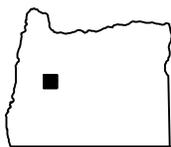
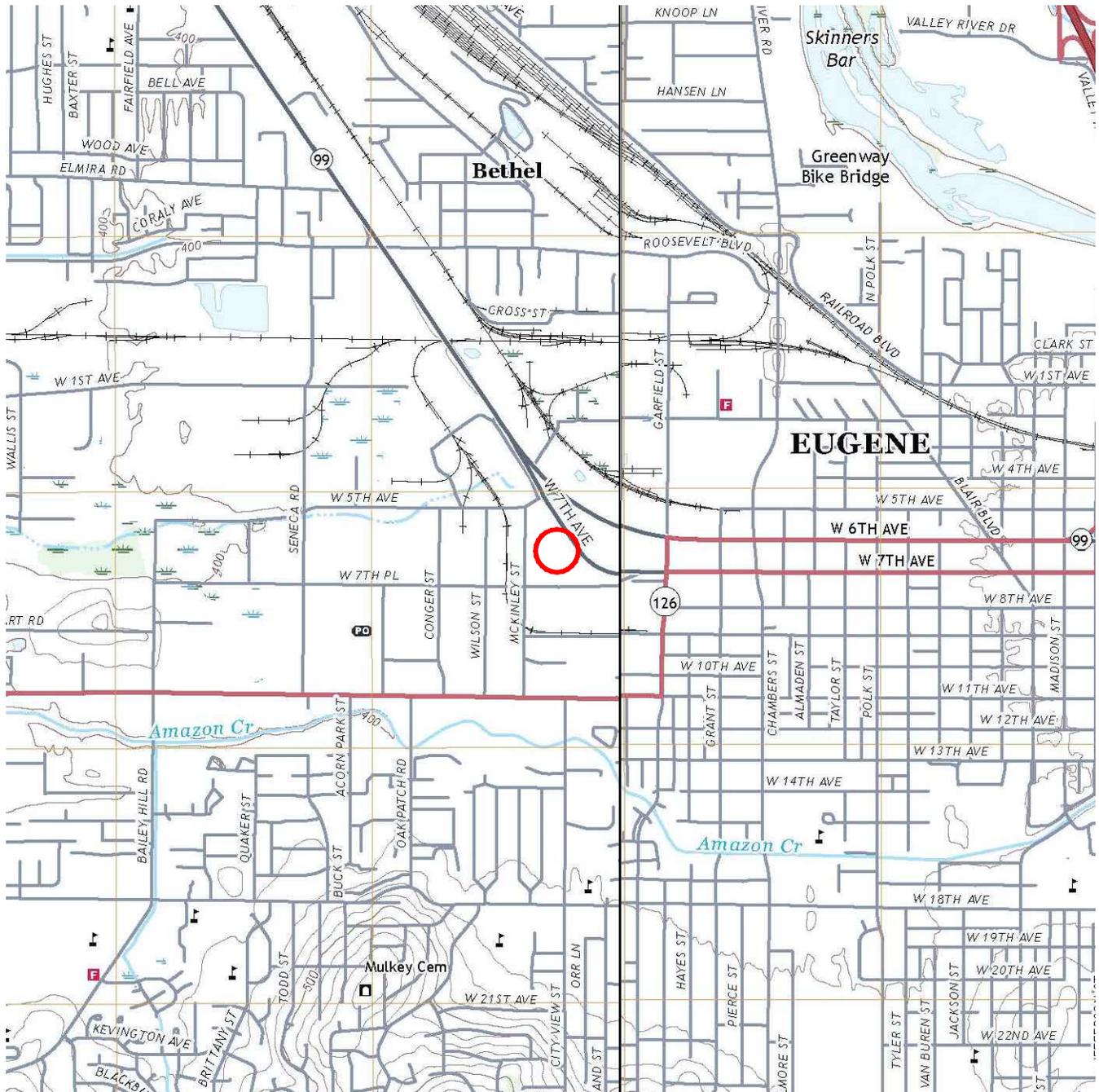
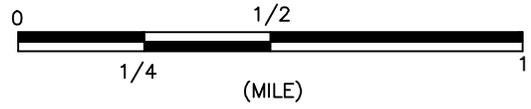
Stephen Omo, R.G.
Project Manager

Attachments

- Attachment A – Site Maps
- Attachment B – Photo Log
- Attachment C – Push Probe Boring Logs
- Attachment D – Laboratory Analytical Reports and Chain-of-Custody Documents

ATTACHMENT A

Site Maps



OREGON



SITE LOCATION

FIGURE 1

SITE VICINITY MAP

COMMERCIAL PROPERTY, 2300 WEST 7th AVENUE, EUGENE, OREGON



EUGENE OFFICE
32986 Roberts Ct.
Coburg, OR
ph: 541.484.9484

PORTLAND OFFICE
25195 SW Parkway Ave., #207
Wilsonville, OR
ph: 503.570.9484

Job Code: **SIL01DEC.24UC**
CADD File: **SIL01DEC.24UC**
Scale: **AS SHOWN**
Drawn: **KATHRYN DAVIS DESIGNS**
Checked: **MATTHEW LUCZAK**
Date: **06/28/24**

SOURCE: USGS TOPOGRAPHIC QUADRANGLE
SERIES: 7.5 MINUTES, EUGENE WEST, OR

www.BBAENV.COM

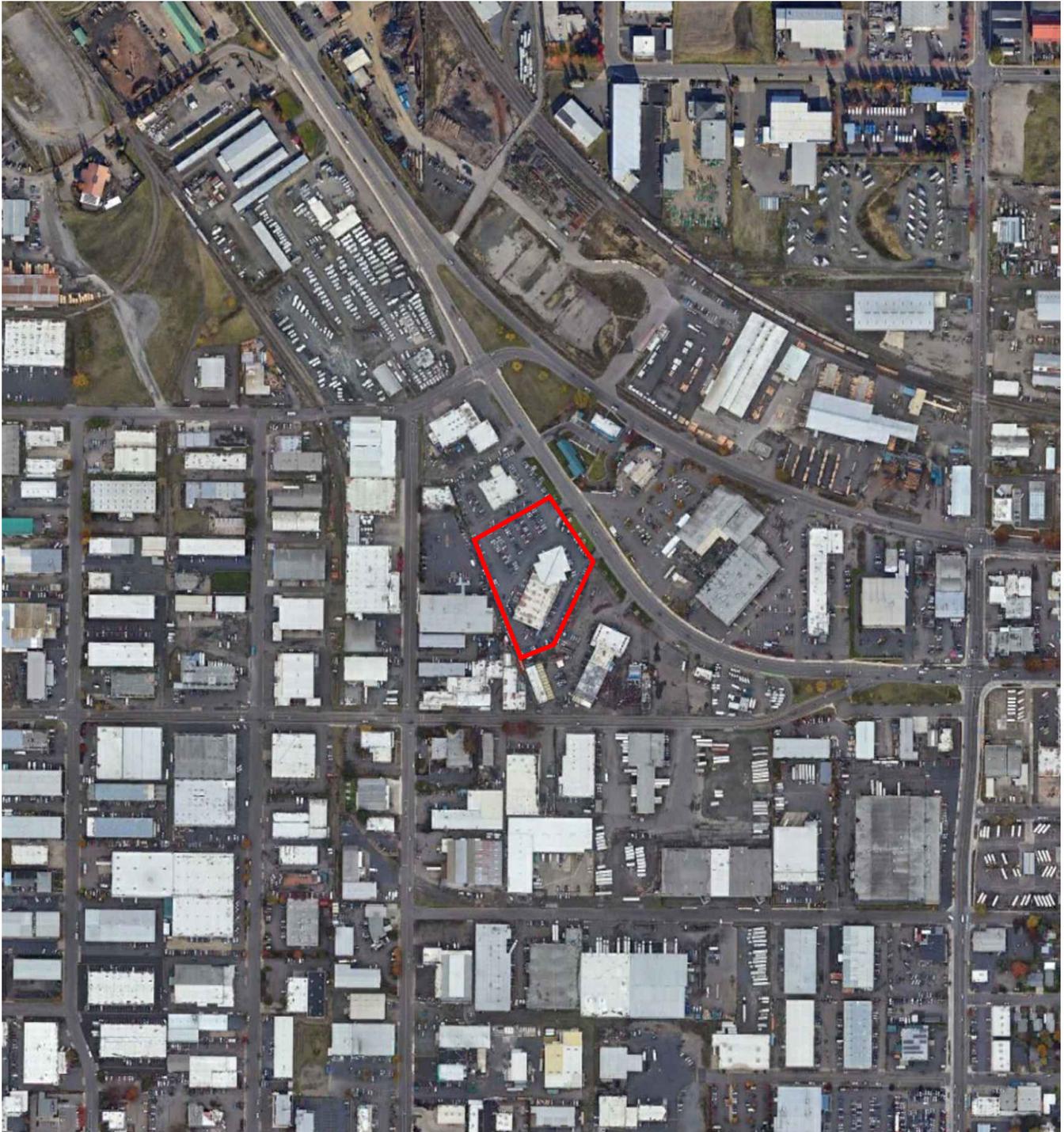
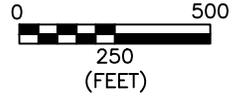


PHOTO SOURCE: GOOGLE EARTH, October 16, 2022

 SUBJECT PROPERTY



EUGENE OFFICE
32986 Roberts Ct.
Coburg, OR
ph: 541.484.9484

PORTLAND OFFICE
25195 SW Parkway Ave., #207
Wilsonville, OR
ph: 503.570.9484

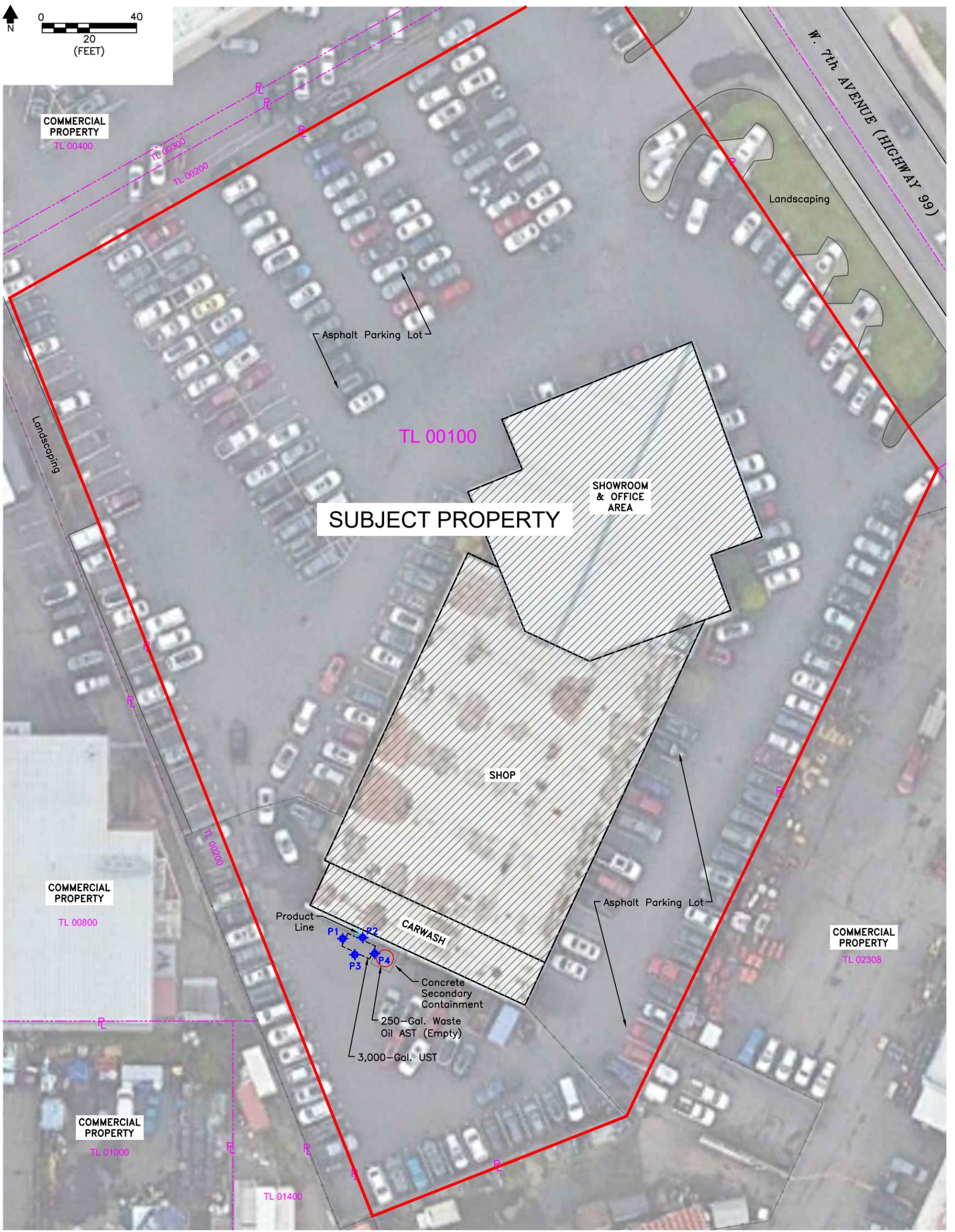
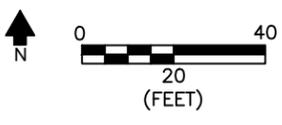
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SITE AERIAL
COMMERCIAL PROPERTY
2300 WEST 7th AVENUE, EUGENE, OREGON

FIGURE #:

2

PROJECT CODE: SIL01DEC.24UC	DATE: 06/28/24	SCALE: AS SHOWN	DRAWN: K.D.DESIGNS	CHECKED: MATTHEW LUCZAK
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LEGEND

-  Proposed Push Probe Location and Identification Number
-  Building
-  Property Line
-  TL 00100 Tax Lot Number

DEFINITIONS:

- A/C Asphalt Concrete
- MO Motor Oil
- HO Hydraulic Oil
- HS High Sulfur Diesel
- WO Waste Oil
- SW Single Wall
- DW Double Wall
- ATF Automatic Transmission Fluid
- AF Antifreeze



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32986 Roberts Ct.
Coburg, OR
ph: 541.484.9484

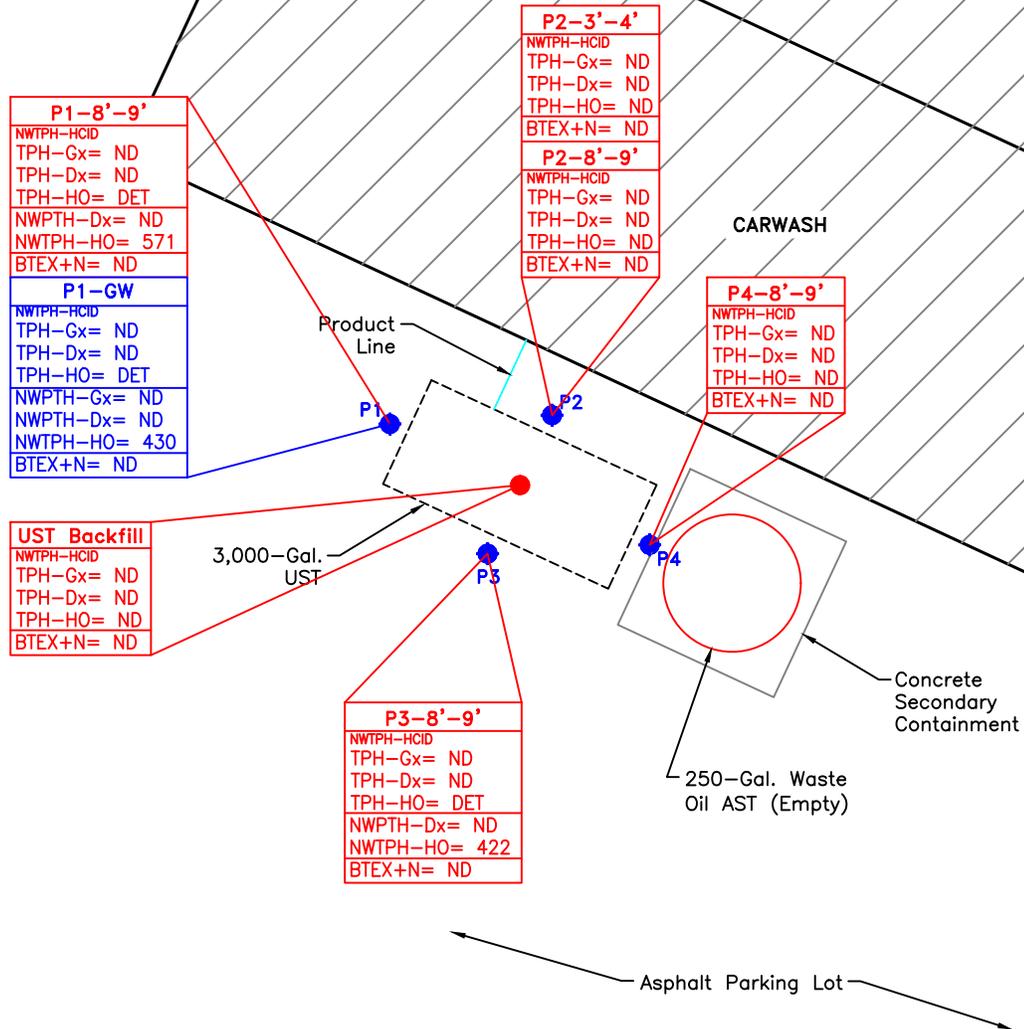
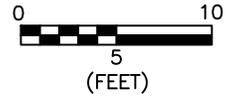
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**SITE PLAN SHOWING PROPOSED PUSH PROBE LOCATIONS
COMMERCIAL PROPERTY
2300 WEST 7th AVENUE, EUGENE, OREGON**

PROJECT CODE: SIL01DEC.24UC	DATE: 07/31/24	SCALE: 1"=40'	DRAWN: K.D.DESIGNS	CHECKED: MATTHEW LUCZAK
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FIGURE #:
3



P1-8'-9'
NWTPH-HCID
TPH-Gx= ND
TPH-Dx= ND
TPH-HO= DET
NWPTH-Dx= ND
NWTPH-HO= 571
BTEX+N= ND
P1-GW
NWTPH-HCID
TPH-Gx= ND
TPH-Dx= ND
TPH-HO= DET
NWPTH-Gx= ND
NWPTH-Dx= ND
NWTPH-HO= 430
BTEX+N= ND

P2-3'-4'
NWTPH-HCID
TPH-Gx= ND
TPH-Dx= ND
TPH-HO= ND
BTEX+N= ND
P2-8'-9'
NWTPH-HCID
TPH-Gx= ND
TPH-Dx= ND
TPH-HO= ND
BTEX+N= ND

P4-8'-9'
NWTPH-HCID
TPH-Gx= ND
TPH-Dx= ND
TPH-HO= ND
BTEX+N= ND

UST Backfill
NWTPH-HCID
TPH-Gx= ND
TPH-Dx= ND
TPH-HO= ND
BTEX+N= ND

P3-8'-9'
NWTPH-HCID
TPH-Gx= ND
TPH-Dx= ND
TPH-HO= DET
NWPTH-Dx= ND
NWTPH-HO= 422
BTEX+N= ND

LEGEND

P1-8'-9'
NWTPH-HCID
TPH-Gx= ND
TPH-Dx= ND
TPH-HO= DET
NWPTH-Dx= ND
NWTPH-HO= 571
BTEX+N= ND

Total Petroleum Hydrocarbons per Northwest Methods NWTPH-HCID, NWTPH-Gx (Gasoline), NWTPH-Dx (Diesel), & NWPTH-HO (Heavy Oil);
 BTEX+N (Volatile Organic Compounds (VOCs)) per EPA Method 8260D;
 Soil units in parts per million (ppm);
 Groundwater units in parts per billion (ppb);
 ND= Not Detected

- Push Probe Location and Identification Number (By BB&A Env. 7/18/24)
- Building
- Property Line



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DETAILED SITE PLAN
COMMERCIAL PROPERTY
2300 WEST 7th AVENUE, EUGENE, OREGON

PROJECT CODE: SIL01DEC.24UC	DATE: 07/31/24	SCALE: 1"=10'	DRAWN: K.D.DESIGNS	CHECKED: MATTHEW LUCZAK
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FIGURE #:

ATTACHMENT B

Photo Log

Attachment B – Photo Log



Top Left Photo taken facing northwest showing the location of the UST. Top Right Photo taken facing south showing the hole cut by BB&A in the top of the UST. Middle Left Photo taken facing southeast showing the inside of the UST had been previously filled with sand at an earlier date. Middle Right Photo taken facing southeast showing the larger hole in the top of the UST, presumed to be cut when the UST was previously filled with sand. Bottom left photo taken facing northwest showing the UST filled to capacity with sand.

ATTACHMENT C

Push Probe Boring Logs

PROBE LOG

PROBE NO.: P1
 PROJECT CODE: SIL01DEC.24UC
 CADD FILE: SIL01DEC.24UC
 PROJECT: COMMERCIAL PROPERTY
 LOCATION: 2300 WEST 7th AVENUE
EUGENE, OREGON

TOTAL DEPTH: 15'
 SURFACE ELEVATION: _____
 PROBING METHOD: MACRO CORE
 PROBED BY: BB&A ENVIRONMENTAL
 LOGGED BY: MATTHEW LUCZAK
 DATE COMPLETED: 7/18/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	MC RECOVERY	PID	H ₂ O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0			0.0		ASPHALT	0	0	
0.0			0.0		Sandy GRAVEL (GM): brown, coarse-med. grained	0	0	
0.0		100%	0.0		Silty CLAY (CL): brown	0	0	
0.0			0.0			0	0	
0.0			0.0			0	0	
5			0.0		Sandy SILT (ML): brown, fine grained	5	5	
0.0		100%	0.0			0	0	
0.0			0.0			0	0	
0.0	P1-8'-9'		0.0		Sandy GRAVEL (GM): brown, coarse-medium grained, moist	0	0	
0.0			0.0		Sandy GRAVEL (GM): brown, coarse-medium grained, saturated	0	0	
10			0.0			10	10	
0.0		100%	0.0			0	0	
0.0			0.0			0	0	
0.0	P1-GW		0.0	WD		0	0	
0.0			0.0			0	0	
15			0.0			15	15	
0.0			0.0			0	0	
20			0.0			20	20	
0.0			0.0			0	0	
25			0.0			25	25	

LEGEND

- BLS Below Land Surface
- PID Photo Ionization Detector, Units in parts per million (ppm)
- WD Water Level in borehole during drilling (i.e. first encountered)

NOTES: DTW IN TEMP WELL @ 13.55' BLS

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.

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PROBE LOG

PROBE NO.: P4
 PROJECT CODE: SIL01DEC.24UC
 CADD FILE: SIL01DEC.24UC
 PROJECT: COMMERCIAL PROPERTY
 LOCATION: 2300 WEST 7th AVENUE
 EUGENE, OREGON

TOTAL DEPTH: 15'
 SURFACE ELEVATION:
 PROBING METHOD: MACRO CORE
 PROBED BY: BB&A ENVIRONMENTAL
 LOGGED BY: MATTHEW LUCZAK
 DATE COMPLETED: 7/18/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	MC RECOVERY	PID	H ₂ O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0			0.0		ASPHALT	[Pattern]	0	[Probe Abandonment Diagram]
			0.0		Sandy GRAVEL (GM): brown, coarse-med. grained	[Pattern]		
		100%	0.0		Silty CLAY (CL): brown	[Pattern]		
			0.0			[Pattern]		
			0.0			[Pattern]		
5			0.0		Sandy SILT (ML): brown, fine grained	[Pattern]	5	
			0.0			[Pattern]		
		100%	0.0			[Pattern]		
			0.0			[Pattern]		
	P4-8'-9'		0.0		Sandy GRAVEL (GM): brown, coarse-medium grained, moist	[Pattern]		
10			0.0		Sandy GRAVEL (GM): brown, coarse-medium grained, saturated	[Pattern]	10	
			0.0			[Pattern]		
		100%	0.0			[Pattern]		
			0.0	WD ▼		[Pattern]		
15			0.0			[Pattern]	15	
			0.0			[Pattern]		
20			0.0			[Pattern]	20	
			0.0			[Pattern]		
25			0.0			[Pattern]	25	

LEGEND

- BLS Below Land Surface
- PID Photo Ionization Detector, Units in parts per million (ppm)
- WD Water Level in borehole during drilling (i.e. first encountered)

NOTES: _____

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.

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ATTACHMENT D

Laboratory Analytical Reports and Chain-of-Custody Documents



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Wednesday, July 31, 2024

Matthew Luczak
BB&A Environmental - Eugene
PO Box 40187
Eugene, OR 97404

RE: A4G1359 - Former Chrysler Products - SIL01DEC.24UC

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 A4G1359, which was received by the laboratory on 7/19/2024 at 10:52:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@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		
<p><u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u></p> <p>(See Cooler Receipt Form for details)</p>		
<p>Default Cooler</p>	<p>4.1</p>	<p>degC</p>

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

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



Apex Laboratories

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

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SIL01-P1-8'-9'	A4G1359-01	Soil	07/18/24 09:55	07/19/24 10:52
SIL01-P2-3'-4'	A4G1359-02	Soil	07/18/24 07:55	07/19/24 10:52
SIL01-P2-8'-9'	A4G1359-03	Soil	07/18/24 08:15	07/19/24 10:52
SIL01-P3-8'-9'	A4G1359-04	Soil	07/18/24 10:50	07/19/24 10:52
SIL01-P4-8'-9'	A4G1359-05	Soil	07/18/24 11:00	07/19/24 10:52
SIL01-UST BACKFILL	A4G1359-06	Soil	07/18/24 09:45	07/19/24 10:52
SIL01-P1-GW	A4G1359-07	Water	07/18/24 10:15	07/19/24 10:52

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
--	--	---

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SIL01-P1-8'-9' (A4G1359-01)				Matrix: Soil		Batch: 24G0725		
Gasoline Range Organics	ND	---	21.4	mg/kg dry	1	07/23/24 01:18	NWTPH-HCID	
Diesel Range Organics	ND	---	53.6	mg/kg dry	1	07/23/24 01:18	NWTPH-HCID	
Oil Range Organics	DET	---	107	mg/kg dry	1	07/23/24 01:18	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 77 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>07/23/24 01:18</i>	<i>NWTPH-HCID</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>78 %</i>		<i>50-150 %</i>		<i>1</i>	<i>07/23/24 01:18</i>	<i>NWTPH-HCID</i>
SIL01-P2-3'-4' (A4G1359-02)				Matrix: Soil		Batch: 24G0725		
Gasoline Range Organics	ND	---	23.8	mg/kg dry	1	07/22/24 23:21	NWTPH-HCID	
Diesel Range Organics	ND	---	59.6	mg/kg dry	1	07/22/24 23:21	NWTPH-HCID	
Oil Range Organics	ND	---	119	mg/kg dry	1	07/22/24 23:21	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 87 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>07/22/24 23:21</i>	<i>NWTPH-HCID</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>86 %</i>		<i>50-150 %</i>		<i>1</i>	<i>07/22/24 23:21</i>	<i>NWTPH-HCID</i>
SIL01-P2-8'-9' (A4G1359-03)				Matrix: Soil		Batch: 24G0725		
Gasoline Range Organics	ND	---	22.0	mg/kg dry	1	07/22/24 23:44	NWTPH-HCID	
Diesel Range Organics	ND	---	54.9	mg/kg dry	1	07/22/24 23:44	NWTPH-HCID	
Oil Range Organics	ND	---	110	mg/kg dry	1	07/22/24 23:44	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 76 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>07/22/24 23:44</i>	<i>NWTPH-HCID</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>73 %</i>		<i>50-150 %</i>		<i>1</i>	<i>07/22/24 23:44</i>	<i>NWTPH-HCID</i>
SIL01-P3-8'-9' (A4G1359-04)				Matrix: Soil		Batch: 24G0725		
Gasoline Range Organics	ND	---	21.8	mg/kg dry	1	07/23/24 00:54	NWTPH-HCID	
Diesel Range Organics	ND	---	54.6	mg/kg dry	1	07/23/24 00:54	NWTPH-HCID	
Oil Range Organics	DET	---	109	mg/kg dry	1	07/23/24 00:54	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 86 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>07/23/24 00:54</i>	<i>NWTPH-HCID</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>80 %</i>		<i>50-150 %</i>		<i>1</i>	<i>07/23/24 00:54</i>	<i>NWTPH-HCID</i>
SIL01-P4-8'-9' (A4G1359-05)				Matrix: Soil		Batch: 24G0725		
Gasoline Range Organics	ND	---	22.5	mg/kg dry	1	07/23/24 00:08	NWTPH-HCID	
Diesel Range Organics	ND	---	56.2	mg/kg dry	1	07/23/24 00:08	NWTPH-HCID	
Oil Range Organics	ND	---	112	mg/kg dry	1	07/23/24 00:08	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>07/23/24 00:08</i>	<i>NWTPH-HCID</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>92 %</i>		<i>50-150 %</i>		<i>1</i>	<i>07/23/24 00:08</i>	<i>NWTPH-HCID</i>
SIL01-UST BACKFILL (A4G1359-06)				Matrix: Soil		Batch: 24G0725		

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
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ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SIL01-UST BACKFILL (A4G1359-06)			Matrix: Soil		Batch: 24G0725			
Gasoline Range Organics	ND	---	20.6	mg/kg dry	1	07/23/24 00:31	NWTPH-HCID	
Diesel Range Organics	ND	---	51.4	mg/kg dry	1	07/23/24 00:31	NWTPH-HCID	
Oil Range Organics	ND	---	103	mg/kg dry	1	07/23/24 00:31	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>07/23/24 00:31</i>	<i>NWTPH-HCID</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>88 %</i>		<i>50-150 %</i>		<i>1</i>	<i>07/23/24 00:31</i>	<i>NWTPH-HCID</i>

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BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SIL01-P1-8'-9' (A4G1359-01)				Matrix: Soil		Batch: 24G0975		
Diesel	ND	---	19.4	mg/kg dry	1	07/29/24 18:10	NWTPH-Dx	
Oil	571	---	38.7	mg/kg dry	1	07/29/24 18:10	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 85 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/29/24 18:10</i>	<i>NWTPH-Dx</i>	
SIL01-P3-8'-9' (A4G1359-04)				Matrix: Soil		Batch: 24G0975		
Diesel	ND	---	19.4	mg/kg dry	1	07/29/24 18:51	NWTPH-Dx	
Oil	422	---	38.8	mg/kg dry	1	07/29/24 18:51	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 87 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/29/24 18:51</i>	<i>NWTPH-Dx</i>	
SIL01-P1-GW (A4G1359-07RE1)				Matrix: Water		Batch: 24G0771		
Diesel	ND	---	0.0769	mg/L	1	07/24/24 11:29	NWTPH-Dx LL	
Oil	0.430	---	0.154	mg/L	1	07/24/24 11:29	NWTPH-Dx LL	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 46 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/24/24 11:29</i>	<i>NWTPH-Dx LL</i>	<i>A-01</i>

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
--	--	---

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SIL01-P1-GW (A4G1359-07)			Matrix: Water		Batch: 24G0694			
Gasoline Range Organics	ND	---	0.100	mg/L	1	07/22/24 13:15	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 96 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>07/22/24 13:15</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>			<i>104 %</i>	<i>50-150 %</i>	<i>1</i>	<i>07/22/24 13:15</i>	<i>NWTPH-Gx (MS)</i>	

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SIL01-P1-8'-9' (A4G1359-01)			Matrix: Soil		Batch: 24G0690			
Benzene	ND	---	10.4	ug/kg dry	50	07/22/24 17:45	5035A/8260D	
Toluene	ND	---	52.0	ug/kg dry	50	07/22/24 17:45	5035A/8260D	
Ethylbenzene	ND	---	26.0	ug/kg dry	50	07/22/24 17:45	5035A/8260D	
Xylenes, total	ND	---	78.0	ug/kg dry	50	07/22/24 17:45	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/22/24 17:45</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>				<i>95 %</i>	<i>80-120 %</i>	<i>1</i>	<i>07/22/24 17:45</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>				<i>101 %</i>	<i>79-120 %</i>	<i>1</i>	<i>07/22/24 17:45</i>	<i>5035A/8260D</i>
SIL01-P1-8'-9' (A4G1359-01RE1)			Matrix: Soil		Batch: 24G0843			
Naphthalene	ND	---	104	ug/kg dry	50	07/25/24 02:58	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/25/24 02:58</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>				<i>98 %</i>	<i>80-120 %</i>	<i>1</i>	<i>07/25/24 02:58</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>				<i>97 %</i>	<i>79-120 %</i>	<i>1</i>	<i>07/25/24 02:58</i>	<i>5035A/8260D</i>
SIL01-P2-3'-4' (A4G1359-02)			Matrix: Soil		Batch: 24G0690			
Benzene	ND	---	12.8	ug/kg dry	50	07/22/24 18:12	5035A/8260D	
Toluene	ND	---	64.1	ug/kg dry	50	07/22/24 18:12	5035A/8260D	
Ethylbenzene	ND	---	32.1	ug/kg dry	50	07/22/24 18:12	5035A/8260D	
Xylenes, total	ND	---	96.2	ug/kg dry	50	07/22/24 18:12	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/22/24 18:12</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>				<i>95 %</i>	<i>80-120 %</i>	<i>1</i>	<i>07/22/24 18:12</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>				<i>100 %</i>	<i>79-120 %</i>	<i>1</i>	<i>07/22/24 18:12</i>	<i>5035A/8260D</i>
SIL01-P2-3'-4' (A4G1359-02RE1)			Matrix: Soil		Batch: 24G0843			
Naphthalene	ND	---	128	ug/kg dry	50	07/25/24 03:25	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/25/24 03:25</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>				<i>98 %</i>	<i>80-120 %</i>	<i>1</i>	<i>07/25/24 03:25</i>	<i>5035A/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>				<i>95 %</i>	<i>79-120 %</i>	<i>1</i>	<i>07/25/24 03:25</i>	<i>5035A/8260D</i>
SIL01-P2-8'-9' (A4G1359-03)			Matrix: Soil		Batch: 24G0690			
Benzene	ND	---	13.2	ug/kg dry	50	07/22/24 18:39	5035A/8260D	
Toluene	ND	---	66.2	ug/kg dry	50	07/22/24 18:39	5035A/8260D	
Ethylbenzene	ND	---	33.1	ug/kg dry	50	07/22/24 18:39	5035A/8260D	
Xylenes, total	ND	---	99.3	ug/kg dry	50	07/22/24 18:39	5035A/8260D	
Naphthalene	ND	---	132	ug/kg dry	50	07/22/24 18:39	5035A/8260D	

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ORELAP ID: OR100062

BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SIL01-P2-8'-9' (A4G1359-03)				Matrix: Soil		Batch: 24G0690		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		Recovery: 101 %		Limits: 80-120 %	1	07/22/24 18:39	5035A/8260D	
<i>Toluene-d8 (Surr)</i>		95 %		80-120 %	1	07/22/24 18:39	5035A/8260D	
<i>4-Bromofluorobenzene (Surr)</i>		100 %		79-120 %	1	07/22/24 18:39	5035A/8260D	
SIL01-P3-8'-9' (A4G1359-04)				Matrix: Soil		Batch: 24G0690		
Benzene	ND	---	11.3	ug/kg dry	50	07/22/24 19:06	5035A/8260D	
Toluene	ND	---	56.7	ug/kg dry	50	07/22/24 19:06	5035A/8260D	
Ethylbenzene	ND	---	28.3	ug/kg dry	50	07/22/24 19:06	5035A/8260D	
Xylenes, total	ND	---	85.0	ug/kg dry	50	07/22/24 19:06	5035A/8260D	
Naphthalene	ND	---	113	ug/kg dry	50	07/22/24 19:06	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		Recovery: 102 %		Limits: 80-120 %	1	07/22/24 19:06	5035A/8260D	
<i>Toluene-d8 (Surr)</i>		95 %		80-120 %	1	07/22/24 19:06	5035A/8260D	
<i>4-Bromofluorobenzene (Surr)</i>		100 %		79-120 %	1	07/22/24 19:06	5035A/8260D	
SIL01-P4-8'-9' (A4G1359-05)				Matrix: Soil		Batch: 24G0690		
Benzene	ND	---	12.7	ug/kg dry	50	07/22/24 19:34	5035A/8260D	
Toluene	ND	---	63.5	ug/kg dry	50	07/22/24 19:34	5035A/8260D	
Ethylbenzene	ND	---	31.7	ug/kg dry	50	07/22/24 19:34	5035A/8260D	
Xylenes, total	ND	---	95.2	ug/kg dry	50	07/22/24 19:34	5035A/8260D	
Naphthalene	ND	---	127	ug/kg dry	50	07/22/24 19:34	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		Recovery: 101 %		Limits: 80-120 %	1	07/22/24 19:34	5035A/8260D	
<i>Toluene-d8 (Surr)</i>		96 %		80-120 %	1	07/22/24 19:34	5035A/8260D	
<i>4-Bromofluorobenzene (Surr)</i>		102 %		79-120 %	1	07/22/24 19:34	5035A/8260D	
SIL01-UST BACKFILL (A4G1359-06)				Matrix: Soil		Batch: 24G0690		
Benzene	ND	---	11.0	ug/kg dry	50	07/22/24 20:01	5035A/8260D	
Toluene	ND	---	55.1	ug/kg dry	50	07/22/24 20:01	5035A/8260D	
Ethylbenzene	ND	---	27.5	ug/kg dry	50	07/22/24 20:01	5035A/8260D	
Xylenes, total	ND	---	82.6	ug/kg dry	50	07/22/24 20:01	5035A/8260D	
Naphthalene	ND	---	110	ug/kg dry	50	07/22/24 20:01	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		Recovery: 102 %		Limits: 80-120 %	1	07/22/24 20:01	5035A/8260D	
<i>Toluene-d8 (Surr)</i>		96 %		80-120 %	1	07/22/24 20:01	5035A/8260D	
<i>4-Bromofluorobenzene (Surr)</i>		99 %		79-120 %	1	07/22/24 20:01	5035A/8260D	
SIL01-P1-GW (A4G1359-07)				Matrix: Water		Batch: 24G0694		
Benzene	ND	---	0.200	ug/L	1	07/22/24 13:15	EPA 8260D	

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BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SIL01-P1-GW (A4G1359-07)			Matrix: Water		Batch: 24G0694			
Toluene	ND	---	1.00	ug/L	1	07/22/24 13:15	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	07/22/24 13:15	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	07/22/24 13:15	EPA 8260D	
Naphthalene	ND	---	5.00	ug/L	1	07/22/24 13:15	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/22/24 13:15</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/22/24 13:15</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/22/24 13:15</i>	<i>EPA 8260D</i>

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight									
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
SIL01-P1-8'-9' (A4G1359-01)				Matrix: Soil		Batch: 24G0691			
% Solids	87.4	---	1.00	%	1	07/23/24 06:12	EPA 8000D		
SIL01-P2-3'-4' (A4G1359-02)				Matrix: Soil		Batch: 24G0691			
% Solids	81.5	---	1.00	%	1	07/23/24 06:12	EPA 8000D		
SIL01-P2-8'-9' (A4G1359-03)				Matrix: Soil		Batch: 24G0691			
% Solids	84.4	---	1.00	%	1	07/23/24 06:12	EPA 8000D		
SIL01-P3-8'-9' (A4G1359-04)				Matrix: Soil		Batch: 24G0691			
% Solids	86.4	---	1.00	%	1	07/23/24 06:12	EPA 8000D		
SIL01-P4-8'-9' (A4G1359-05)				Matrix: Soil		Batch: 24G0691			
% Solids	87.0	---	1.00	%	1	07/23/24 06:12	EPA 8000D		
SIL01-UST BACKFILL (A4G1359-06)				Matrix: Soil		Batch: 24G0691			
% Solids	94.4	---	1.00	%	1	07/23/24 06:12	EPA 8000D		

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QUALITY CONTROL (QC) SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24G0725 - EPA 3546 (Fuels)						Soil						
Blank (24G0725-BLK1)		Prepared: 07/22/24 15:01 Analyzed: 07/22/24 22:11										
<u>NWTPH-HCID</u>												
Gasoline Range Organics	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	100	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>88 %</i>		<i>50-150 %</i>		<i>"</i>						

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

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24G0771 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (24G0771-BLK1)		Prepared: 07/23/24 12:38 Analyzed: 07/23/24 20:25										
<u>NWTPH-Dx LL</u>												
Diesel	ND	---	0.0800	mg/L	1	---	---	---	---	---	---	
Oil	ND	---	0.160	mg/L	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 88 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS (24G0771-BS1)		Prepared: 07/23/24 12:38 Analyzed: 07/23/24 20:46										
<u>NWTPH-Dx LL</u>												
Diesel	0.359	---	0.0800	mg/L	1	0.500	---	72	36 - 132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 98 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24G0975 - EPA 3546 (Fuels)						Soil						
Blank (24G0975-BLK1)		Prepared: 07/29/24 06:46 Analyzed: 07/29/24 12:33										
<u>NWTPH-Dx</u>												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	---
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	---
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 88 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS (24G0975-BS1)		Prepared: 07/29/24 06:46 Analyzed: 07/29/24 12:59										
<u>NWTPH-Dx</u>												
Diesel	111	---	20.0	mg/kg wet	1	125	---	89	38 - 132%	---	---	---
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 91 %</i>			<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					

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QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24G0694 - EPA 5030C						Water						
Blank (24G0694-BLK1)		Prepared: 07/22/24 09:50 Analyzed: 07/22/24 12:47										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>105 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (24G0694-BS2)		Prepared: 07/22/24 09:50 Analyzed: 07/22/24 12:20										
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	0.523	---	0.100	mg/L	1	0.500	---	105	80 - 120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 94 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>102 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24G0690 - EPA 5035A						Soil						
Blank (24G0690-BLK1)		Prepared: 07/22/24 09:00 Analyzed: 07/22/24 11:54										
<u>5035A/8260D</u>												
Benzene	ND	---	10.0	ug/kg wet	50	---	---	---	---	---	---	---
Toluene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	---
Ethylbenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	---
Xylenes, total	ND	---	75.0	ug/kg wet	50	---	---	---	---	---	---	---
Naphthalene	ND	---	100	ug/kg wet	50	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						
<hr/>												
LCS (24G0690-BS1)		Prepared: 07/22/24 09:00 Analyzed: 07/22/24 10:59										
<u>5035A/8260D</u>												
Benzene	1110	---	10.0	ug/kg wet	50	1000	---	111	80 - 120%	---	---	---
Toluene	1080	---	50.0	ug/kg wet	50	1000	---	108	80 - 120%	---	---	---
Ethylbenzene	1110	---	25.0	ug/kg wet	50	1000	---	111	80 - 120%	---	---	---
Xylenes, total	3400	---	75.0	ug/kg wet	50	3000	---	113	80 - 120%	---	---	---
Naphthalene	1020	---	100	ug/kg wet	50	1000	---	102	80 - 120%	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						

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

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24G0694 - EPA 5030C						Water						
Blank (24G0694-BLK1)		Prepared: 07/22/24 09:50 Analyzed: 07/22/24 12:47										
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	---	---	---	---	---	---	---
Naphthalene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<hr/>												
LCS (24G0694-BS1)		Prepared: 07/22/24 09:50 Analyzed: 07/22/24 11:45										
EPA 8260D												
Benzene	20.8	---	0.200	ug/L	1	20.0	---	104	80 - 120%	---	---	---
Toluene	20.0	---	1.00	ug/L	1	20.0	---	100	80 - 120%	---	---	---
Ethylbenzene	21.3	---	0.500	ug/L	1	20.0	---	106	80 - 120%	---	---	---
Xylenes, total	62.8	---	1.50	ug/L	1	60.0	---	105	80 - 120%	---	---	---
Naphthalene	18.6	---	5.00	ug/L	1	20.0	---	93	80 - 120%	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						

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

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
--	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24G0843 - EPA 5035A						Soil						
Blank (24G0843-BLK1)		Prepared: 07/24/24 16:47 Analyzed: 07/24/24 19:18										
<u>5035A/8260D</u>												
Benzene	ND	---	10.0	ug/kg wet	50	---	---	---	---	---	---	---
Toluene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	---
Ethylbenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	---
Xylenes, total	ND	---	75.0	ug/kg wet	50	---	---	---	---	---	---	---
Naphthalene	ND	---	100	ug/kg wet	50	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						
<hr/>												
LCS (24G0843-BS1)		Prepared: 07/24/24 16:47 Analyzed: 07/24/24 18:24										
<u>5035A/8260D</u>												
Benzene	1080	---	10.0	ug/kg wet	50	1000	---	108	80 - 120%	---	---	---
Toluene	1030	---	50.0	ug/kg wet	50	1000	---	103	80 - 120%	---	---	---
Ethylbenzene	1050	---	25.0	ug/kg wet	50	1000	---	105	80 - 120%	---	---	---
Xylenes, total	3150	---	75.0	ug/kg wet	50	3000	---	105	80 - 120%	---	---	---
Naphthalene	862	---	100	ug/kg wet	50	1000	---	86	80 - 120%	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>79-120 %</i>		<i>"</i>						

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

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24G0691 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (24G0691-DUP1)		Prepared: 07/22/24 09:13 Analyzed: 07/23/24 06:12										
<u>QC Source Sample: SIL01-P1-8'-9' (A4G1359-01)</u>												
<u>EPA 8000D</u>												
% Solids	87.8	---	1.00	%	1	---	87.4	---	---	0.4	10%	
Duplicate (24G0691-DUP2)		Prepared: 07/22/24 09:13 Analyzed: 07/23/24 06:12										
<u>QC Source Sample: SIL01-P2-3'-4' (A4G1359-02)</u>												
<u>EPA 8000D</u>												
% Solids	80.2	---	1.00	%	1	---	81.5	---	---	2	10%	
Duplicate (24G0691-DUP3)		Prepared: 07/22/24 09:13 Analyzed: 07/23/24 06:12										
<u>QC Source Sample: SIL01-P2-8'-9' (A4G1359-03)</u>												
<u>EPA 8000D</u>												
% Solids	89.5	---	1.00	%	1	---	84.4	---	---	6	10%	
Duplicate (24G0691-DUP4)		Prepared: 07/22/24 09:13 Analyzed: 07/23/24 06:12										
<u>QC Source Sample: SIL01-P3-8'-9' (A4G1359-04)</u>												
<u>EPA 8000D</u>												
% Solids	83.2	---	1.00	%	1	---	86.4	---	---	4	10%	
Duplicate (24G0691-DUP5)		Prepared: 07/22/24 09:13 Analyzed: 07/23/24 06:12										
<u>QC Source Sample: SIL01-P4-8'-9' (A4G1359-05)</u>												
<u>EPA 8000D</u>												
% Solids	89.1	---	1.00	%	1	---	87.0	---	---	2	10%	
Duplicate (24G0691-DUP6)		Prepared: 07/22/24 09:13 Analyzed: 07/23/24 06:12										
<u>QC Source Sample: SIL01-UST BACKFILL (A4G1359-06)</u>												
<u>EPA 8000D</u>												
% Solids	93.8	---	1.00	%	1	---	94.4	---	---	0.6	10%	

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323

ORELAP ID: OR100062

BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
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SAMPLE PREPARATION INFORMATION

Hydrocarbon Identification Screen by NWTPH-HCID

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24G0725</u>							
A4G1359-01	Soil	NWTPH-HCID	07/18/24 09:55	07/22/24 16:39	10.67g/10mL	10g/10mL	0.94
A4G1359-02	Soil	NWTPH-HCID	07/18/24 07:55	07/22/24 16:39	10.29g/10mL	10g/10mL	0.97
A4G1359-03	Soil	NWTPH-HCID	07/18/24 08:15	07/22/24 16:39	10.78g/10mL	10g/10mL	0.93
A4G1359-04	Soil	NWTPH-HCID	07/18/24 10:50	07/22/24 16:39	10.61g/10mL	10g/10mL	0.94
A4G1359-05	Soil	NWTPH-HCID	07/18/24 11:00	07/22/24 16:39	10.23g/10mL	10g/10mL	0.98
A4G1359-06	Soil	NWTPH-HCID	07/18/24 09:45	07/22/24 16:39	10.3g/10mL	10g/10mL	0.97

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24G0771</u>							
A4G1359-07RE1	Water	NWTPH-Dx LL	07/18/24 10:15	07/23/24 12:38	1040mL/2mL	1000mL/2mL	0.96

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24G0975</u>							
A4G1359-01	Soil	NWTPH-Dx	07/18/24 09:55	07/29/24 06:46	11.81g/5mL	10g/5mL	0.85
A4G1359-04	Soil	NWTPH-Dx	07/18/24 10:50	07/29/24 06:46	11.95g/5mL	10g/5mL	0.84

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

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24G0694</u>							
A4G1359-07	Water	NWTPH-Gx (MS)	07/18/24 10:15	07/22/24 09:50	5mL/5mL	5mL/5mL	1.00

BTEX+N Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24G0694</u>							
A4G1359-07	Water	EPA 8260D	07/18/24 10:15	07/22/24 09:50	5mL/5mL	5mL/5mL	1.00

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
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ORELAP ID: OR100062

BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
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SAMPLE PREPARATION INFORMATION

BTEX+N Compounds by EPA 8260D

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24G0690</u>							
A4G1359-01	Soil	5035A/8260D	07/18/24 09:55	07/18/24 09:55	12.76g/10mL	5g/5mL	0.78
A4G1359-02	Soil	5035A/8260D	07/18/24 07:55	07/18/24 07:55	11.61g/10mL	5g/5mL	0.86
A4G1359-03	Soil	5035A/8260D	07/18/24 08:15	07/18/24 08:15	13.52g/13mL	5g/5mL	0.96
A4G1359-04	Soil	5035A/8260D	07/18/24 10:50	07/18/24 10:50	11.87g/10mL	5g/5mL	0.84
A4G1359-05	Soil	5035A/8260D	07/18/24 11:00	07/18/24 11:00	20.52g/20mL	5g/5mL	0.98
A4G1359-06	Soil	5035A/8260D	07/18/24 09:45	07/18/24 09:45	20.34g/20mL	5g/5mL	0.98
<u>Batch: 24G0843</u>							
A4G1359-01RE1	Soil	5035A/8260D	07/18/24 09:55	07/18/24 09:55	12.76g/10mL	5g/5mL	0.78
A4G1359-02RE1	Soil	5035A/8260D	07/18/24 07:55	07/18/24 07:55	11.61g/10mL	5g/5mL	0.86

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24G0691</u>							
A4G1359-01	Soil	EPA 8000D	07/18/24 09:55	07/22/24 09:13			NA
A4G1359-02	Soil	EPA 8000D	07/18/24 07:55	07/22/24 09:13			NA
A4G1359-03	Soil	EPA 8000D	07/18/24 08:15	07/22/24 09:13			NA
A4G1359-04	Soil	EPA 8000D	07/18/24 10:50	07/22/24 09:13			NA
A4G1359-05	Soil	EPA 8000D	07/18/24 11:00	07/22/24 09:13			NA
A4G1359-06	Soil	EPA 8000D	07/18/24 09:45	07/22/24 09:13			NA

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

BB&A Environmental - Eugene	Project: Former Chrysler Products	
PO Box 40187	Project Number: SIL01DEC.24UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A4G1359 - 07 31 24 1148

QUALIFIER DEFINITIONS

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

Apex Laboratories

A-01 In sufficient sample provided for re-extractions to confirm low surrogate

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BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

QC Source:

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

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

Miscellaneous Notes:

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

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 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 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

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ANALYTICAL REPORT

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BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses. 'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

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

Table with 3 columns: Client (BB&A Environmental - Eugene), Project (Former Chrysler Products), and Report ID (A4G1359 - 07 31 24 1148).

LABORATORY ACCREDITATION INFORMATION

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

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

Apex Laboratories

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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

Signature of Darrell Auvil

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

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BB&A Environmental - Eugene PO Box 40187 Eugene, OR 97404	Project: Former Chrysler Products Project Number: SIL01DEC.24UC Project Manager: Matthew Luczak	Report ID: A4G1359 - 07 31 24 1148
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APEX LABS COOLER RECEIPT FORM

Client: BB&A Environmental Element WO#: A4 G1359
 Project/Project #: SIL01DEC.24UC ^{JS} 7/19/24 Former Chrysler Products
SIL01DEC.24UC

Delivery Info:

Date/time received: 7/19/24 @ 10:52 By: ZA
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other
 From USDA Regulated Origin? Yes No

Cooler Inspection Date/time inspected: 7/19/24 @ 10:52 By: ZA

Chain of Custody included? Yes No
 Signed/dated by client? Yes No
 Contains USDA Reg. Soils? Yes No Unsure (email RegSoils)

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>4.1</u>						
Custody seals? (Y/N)	<u>Y</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Gel</u>						
Condition (In/Out):	<u>In</u>						

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

Out of temperature samples form initiated? Yes/No No
Sample Inspection: Date/time inspected: 7/19/24 @ 12:05 By: JS
 All samples intact? Yes No Comments: 8oz jar broken in transit
for SIL01-P3-8'-9'

Bottle labels/COCs agree? Yes No Comments: _____

COC/container discrepancies form initiated? Yes No

Containers/volumes received appropriate for analysis? Yes No Comments: Sediment in 4/4 HCL Vials for water sample.

Do VOA vials have visible headspace? Yes No NA

Comments: _____
 Water samples: pH checked: Yes No NA pH appropriate? Yes No NA pH ID: A23172

Comments: 7774 8577 2774

Labeled by: JS Witness: Checked - JS Cooler Inspected by: ZA
MOCK-APV
 Form Y-003 R-02