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: 8883

FACILITY NAME: Fred Meyer Grants Pass #126

FACILITY ADDRESS: 1101 Grants Pass Parkway, Grants Pass, OR 97526

PERMITTEE PHONE: 503-797-3512 DATE: 09/24/2024

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 #: 2435 Construction Contractors Board License #: 47283

Name: Meng-Hannan Construction, Inc

Telephone: 503-761-5290

DEQ Decommissioning Supervisor's License #: 27586

Name: Matt Failor

Telephone: 503-519-4825

DEQ Soil Matrix Service Provider's License #: _____ (If applicable)

Name: Marsi Beeson

Telephone: 503-603-6661

DEQ Soil Matrix Supervisor's License #: _____ (If applicable)

Name: _____

Telephone: _____

C. DATES:

Decommissioning/Change-in-Service Notice - Date Submitted: 7/22/2024 (30 days before work starts).

Work Start Telephone Notice - Number issued by DEQ: 17-3D-24-031 (3 working days before work starts).

DEQ Person Notified: Dylan Eckert

Date Work Started: 8/21/2024 Date Work Completed: 9/5/2024

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: _____ By: _____

DEQ Person Notified: _____

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:

			PRODUCT: GASOLINE, DIESEL, USED OIL, OTHER?		CLOSURE OR CHANGE-IN- SERVICE?			TANK TO BE REPLACED?	
TANK ID #	DEQ-UST PERMIT #	TANK SIZE IN GALLONS	PRESENT	NEW	TANK REMOVAL	CLOSURE IN PLACE♦	CHANGE IN SERVICE♦	YES	NO
BFGKD		8K	Unleaded		☑	☐	☐	☐	☑
BFGKC		20K	Unleaded		☑	☐	☐	☐	☑
BFGKE		8K	Diesel		☑	☐	☐	☐	☑
					☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐

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 AND PIPING DISPOSAL METHOD				DISPOSAL LOCATION OF TANK CONTENTS	
TANK ID #	SCRAP	LAND-FILL	OTHER	IDENTIFY LOCATION & PROPERTY OWNER	LIQUIDS	SLUDGES
T2	☐	☐	☑	Jeff Fowler bill of sale attached	N/A	ORRCO
T3	☐	☐	☑	for use as non potable water	N/A	ORRCO
T4	☐	☐	☑	storage	N/A	ORRCO
	☐	☐	☐			
	☐	☐	☐			

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:

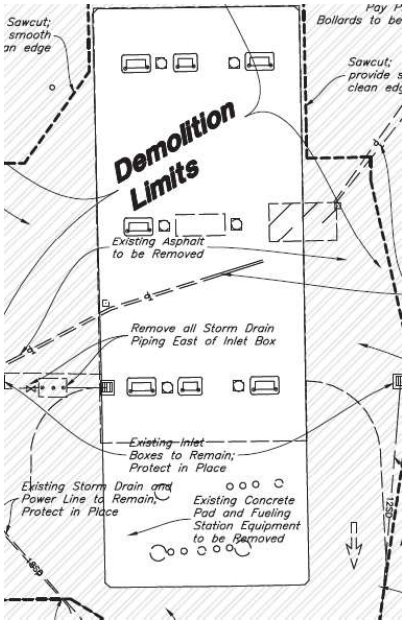
TANK ID #	GROUND WATER IN PIT ?	PRODUCT ODOR IN SOIL ?	PRODUCT STAINS IN SOIL ?	NUMBER OF SAMPLES	LABORATORY (NAME, CITY, STATE, PHONE)
	☑	☐	☐		GeoEngineers, Assessment report attached
	☑	☐	☐		
	☑	☐	☐		
	☐	☐	☐		
	☐	☐	☐		

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.)

North



I. SAFETY EQUIPMENT ON JOB SITE:

Fire Extinguisher:	Type/Size:	2A20BC	Recharge Date:	07/17/2024
Combustible Gas Detector:	Model:	Ventis MX4	Calibration Date:	03/28/24
Oxygen Analyzer:	Model:	Ventis MX4	Calibration Date:	03/28/24

J. DECOMMISSIONING:

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

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:_____ DEQ Staff: _____				✓
17. Contamination concerns fully resolved?				✓
18. Fill Material? Type: _____				✓

L. TANK REMOVAL:

All Tanks: N/A = Not Applicable (Check (√) Appropriate Box)	YES	NO	UNKNOWN	N/A
19. Tank placement area cleared, chocks placed?	✓			
20. Purged or ventilated tank to prevent explosion? Method used: Air mover Meter reading: LEL 17, Oxy 19.8	✓			
21. Were chains or steel cables wrapped around tank for removal?		✓		
22. Tank removed, set on ground, blocked to prevent movement?	✓			
23. Tank set on truck and secured with straps(s)?	✓			
24. Tank labeled before leaving site?	✓			

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	✓			
26. Soil samples taken and analyzed?	✓			
27. Was contamination found? Date/Time:		✓		
28. Was hazardous waste determination made for tank contents (Liquids/sludges)?	✓			

Type te

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: Daniel Hermann
(***Please Print***)

Permittee or Tank Owner: Daniel Hermann Date: 9/27/2024
(***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: Matt Failor
(***Please Print***)

Licensed Supervisor: Matt Failor Date: 9/24/2024
(***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: Matt Failor
Licensed Service Provider (***Please Print***)

Executive Officer: Matt Failor Date: 9/24/2024
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

NORTHWEST REGION	WESTERN REGION / EUGENE	WESTERN REGION / MEDFORD
700 NE MULTNOMAH ST.	165 EAST 7TH AVE., SUITE 100	221 STEWART AVE., SUITE 201
PORTLAND, OR 97232 Phone:	EUGENE, OR 97401	MEDFORD, OR 97501
503-229-5263	Phone: 541-686-7838	Phone: 541-776-6010
Fax: 503-229-6945	Fax: 541-686-7551	Fax: 541-776-6262

PSCU 2578
MC# 24355

Fred Meyers 417

P.O. BOX 16615 SALT LA

CONSIGNED TO:
FRED MEYER #28
770 NW GARDENVALLEY RD
Roseburg,OR 97470

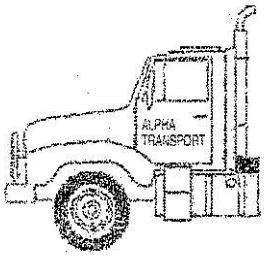
EUGENE

SHIPPER:
KINDER MORGAN
1765 Prairie Rd
Eugene, OR 97402

ORD NO.: 826657
ORD DATE: 07/22/2024
SHIPPING DATE: 07/29/2024
DELIVERY DATE: 07/29/2024

DRIVER: TODD
TRUCK NO: 282
TRAILER NO: 5950
5600

LOAD: 263/888944



87	87
PROD	PROD
3000	1450
QTY	QTY

BOL NO: _____

LOADING INFORMATION			UNLOADING INFORMATION		
ARRIVE:	0820	AM/PM	ARRIVE:	1541	AM/PM
LOAD:		AM/PM	UNLOAD:		AM/PM TRUCK
DEPART:	1330	AM/PM	DEPART:	1615	AM/PM CUSTO

DESCRIPTION COMMODITY	ORDERED	# CARGO TANKS	G
UN1203, GASOLINE, 3, II GAS, UNLEADED 87, 10% ETHANOL PHIEUGU	1 GAL		4
UN1203, GASOLINE, 3, II GAS, PREMIUM 92, 10% ETHANOL PHIEUGU	1 GAL		3
NA1993, DIESEL FUEL, 3, COMBUSTIBLE LIQUID, III 95% #2 ULSD 15PPM CLEAR, 5% SOY OR BIO CLEAR PHIEUGU	1 GAL		1
Split Load			
ORDER COMMENTS? Transfer From Old Fred Meyers 126 station			RE

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIB
TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TR

RECEIPT IS HEREBY ACKNOWLEDGED OF THE PRODUCTS AND SERVICE ABOVE. I OR WE AGREE
I OR WE AGREE TO PAY ALL COLLECTION COSTS INCLUDING REASONABLE ATTORNEY FEES IN T

GRAYMAR ENVIRONMENTA
1-866-47

PHA
RANSPORT

COMBINATION BILL OF LADING
TRANSPORTATION RECEIPT
FREIGHT BILL

KE CITY, UTAH 84116-0615

Copy 1

Fred Meyer
126 Passon
nts
STEWART

ACCOUNT OF:
KROGER FUEL CENTERS
2700 EAST 4TH STREET
Hutchinson,KS 67501

ODUCT LOADING ORDER:

		B5		92
	PROD	PROD	PROD	PROD
		1769		3615
	QTY	QTY	QTY	QTY

- ☐ LINE AT THE REFINERY
- ☐ ALLOCATION ISSUES
- ☐ SPLIT WITH PET _____
- ☐ RETAIN
- ☐ OTHER _____

K PUMP: YES ☐ NO ☐
OMER PUMP: YES ☐ NO ☐

GROSS	NET	READING BEFORE	READING AFTER	TOTAL	RATE
1433		62	81		
		10739	14733		
3615		46	87		
		2868	6490		
1769		61	83		
		4111	6166		

CEIVED IN GOOD ORDER SIGNATURE X _____

ED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR ANSPORTATION.

E TO PAY THE HIGHEST ALLOWABLE PERCENTAGE RATE BY LAW ON ALL PAST DUE ACCOUNTS HE EVENT THIS ACCOUNT IS COLLECTED BY SUIT OR OTHERWISE.

L EMERGENCY RESPONSE
2-9627

PSCU 2578
MC# 24355

ALP
TR

P.O. BOX 16615 SALT LA

CONSIGNED TO:
FRED MEYER #126
1101 Grants Pass Pkwy
Grants Pass,OR 97526

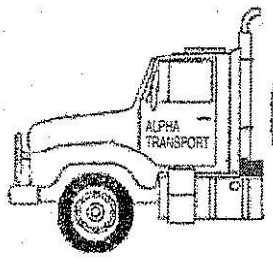
SHIPPER:
KINDER MORGAN
1765 Prairie Rd
Eugene,OR 97402

ORD NO.: 837840
ORD DATE: 07/28/2024
SHIPPING DATE: 07/29/2024
DELIVERY DATE: 07/29/2024

DRIVER: TODD
TRUCK NO: 282
TRAILER NO: 5950
5600

PR

LOAD: 263/888944



87	87
PROD	PROD
3000	143
QTY	QTY

BOL NO: _____

LOADING INFORMATION			UNLOADING INFORMATION		
ARRIVE:	0820	AM/PM	ARRIVE:		AM/PM
LOAD:		AM/PM	UNLOAD:		AM/PM TRUCK
DEPART:	1330	AM/PM	DEPART:		AM/PM CUSTO

DESCRIPTION COMMODITY	ORDERED	#CARGO TANKS	GI
UN1203, GASOLINE, 3, II GAS, UNLEADED 87, 10% ETHANOL PHIEUGU	1 GAL		4
NA1993, DIESEL FUEL, 3, COMBUSTIBLE LIQUID, III 95% #2 ULSD 15PPM CLEAR, 5% SOY OR BIO CLEAR PHIEUGU	1 GAL		17
UN1203, GASOLINE, 3, II GAS, PREMIUM 92, 10% ETHANOL PHIEUGU	1 GAL		3
UN1203, GASOLINE, 3, II GAS, UNLEADED 87, 10% ETHANOL PHIEUGU	1 GAL		
NA1993, DIESEL FUEL, 3, COMBUSTIBLE LIQUID, III 95% #2 ULSD 15PPM CLEAR, 5% SOY OR BIO CLEAR PHIEUGU	1 GAL		
UN1203, GASOLINE, 3, II GAS, PREMIUM 92, 10% ETHANOL PHIEUGU	1 GAL		

ORDER COMMENTS: Pump ON (5hrs) Station EMPty

REC

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED
TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRA

RECEIPT IS HEREBY ACKNOWLEDGED OF THE PRODUCTS AND SERVICE ABOVE. I OR WE AGREE T
I OR WE AGREE TO PAY ALL COLLECTION COSTS INCLUDING REASONABLE ATTORNEY FEES IN TH

GRAYMAR ENVIRONMENTAL
1-866-472

PHA
RANSPORT

COMBINATION BILL OF LADING
TRANSPORTATION RECEIPT
FREIGHT BILL

KE CITY, UTAH 84116-0615

Copy 1

ACCOUNT OF:
KROGER FUEL CENTERS
2700 EAST 4TH STREET
Hutchinson,KS 67501

STEWART

ODUCT LOADING ORDER:

		B-5		92
	PROD	PROD	PROD	PROD
O		1769		3615
	QTY	QTY	QTY	QTY

☐ LINE AT THE REFINERY
☐ ALLOCATION ISSUES
☐ SPLIT WITH PET _____
☐ RETAIN
☐ OTHER _____

PUMP: YES☑ NO☐
MER PUMP: YES☐ NO☑

ROSS	NET	READING BEFORE	READING AFTER	TOTAL	RATE
433	~				
769	~				
615	~				

EIVED IN GOOD ORDER SIGNATURE X _____

D, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR NSPORTATION.

TO PAY THE HIGHEST ALLOWABLE PERCENTAGE RATE BY LAW ON ALL PAST DUE ACCOUNTS E EVENT THIS ACCOUNT IS COLLECTED BY SUIT OR OTHERWISE.

EMERGENCY RESPONSE
2-9627

UST System Decommissioning Report

Fred Meyer Fuel #126
1101 Grants Pass Parkway
Grants Pass, Oregon 97526

for
The Kroger Company

September 12, 2024

5820 South Kelly Avenue, Suite B
Portland, Oregon 97239
503.906.6577

GeoEngineers

UST System Decommissioning Report

Fred Meyer Fuel #126
1101 Grants Pass Parkway
Grants Pass, Oregon 97526

File No. 2831-115-00
September 12, 2024

Prepared for:

The Kroger Company
P.O. Box 42121
Portland, Oregon 97242

Attention: Daniel Hermann

Prepared by:

GeoEngineers, Inc.
5820 South Kelly Avenue, Suite B
Portland, Oregon 97239
503.906.6577

Marsi Beeson
Senior Environmental Scientist

Kurt Harrington, PE
Principal

MB:KJH:cdb

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Appendices

1.0 Introduction

This report describes site assessment activities conducted as part of underground storage tank (UST) system decommissioning at the Fred Meyer #126 Fuel Center located at 1101 Grants Pass Parkway, Grants Pass, Oregon (herein referred to as "site") as shown in the Vicinity Map, Figure 1. This report has been prepared by GeoEngineers, Inc. (GeoEngineers) in accordance with our proposal to The Kroger Company (dba Fred Meyer) dated July 26, 2024.

This report describes field activities, observations and analytical results associated with soil and water samples collected at the site. The purpose of sampling described herein was to assess subsurface soil and groundwater in proximity to the diesel and gasoline fuel storage and dispensing systems for permanent decommissioning. The site assessment was conducted in accordance with the Oregon Department of Environmental Quality (DEQ) Site Assessment Requirements promulgated in the Oregon Administrative Rules (OAR) 340-150-0180 under the supervision of an Oregon registered Professional Engineer.

2.0 Site Description and Background

The Fred Meyer #126 Fuel Center was an automotive fuel station located in Grants Pass, Oregon. The general site location is depicted in the Site Layout, Figure 2. The DEQ Facility ID for the site is 8883.

The site canopy and dispensers were removed and/or demolished as part of the UST decommissioning activities prior to GeoEngineers field assessment. The site fuel system was comprised of one 20,000-gallon regular gasoline UST and one 16,000-gallon dual compartment UST, containing one 8,000-gallon premium gasoline UST and one 8,000-gallon diesel UST in a common basin; seven fuel dispensers; and product piping. The USTs were double-wall fiberglass tanks with hydrostatic annular space monitoring systems. The product conveyance piping consisted of 1.5-inch diameter flexible piping inside 3-inch flexible conduit for containment between the dispensers and tanks. The interior piping had been removed prior to the site assessment. Each dispenser had an underlying spill containment sump equipped with a product sensor. The dispensers and containment sumps had also been removed prior the site assessment.

Following facility demolition, backfill of excavations, and the restoration of the asphalt pavement, the former fuel station will be used as parking for the adjacent Fred Meyer store.

2.1 SITE GEOLOGY AND HYDROGEOLOGY

The site is situated on alluvial materials of the Rogue River Valley described as deposits of sand, gravel and silt found in terraces. Our review of the site geology, together with on-site observations, suggests that much of the site has been modified and is mantled with up to about 5 feet of fill or reworked native materials. The site's surface topography is generally flat. Reportedly, seasonal groundwater fluctuations range between approximately 5.5 and 10 feet below ground surface (bgs).

Groundwater was observed in the UST cavity at a depth of approximately 10 feet bgs on August 20, 2024. The water was approximately two feet deep at the base of the excavation.

3.0 Scope of Services

The fuel storage and distribution system decommissioning scope of services included conducting field assessment activities (soil and groundwater sampling), report preparation and project management. The specific scope of services performed included the following:

- Observe and document subsurface soil conditions beneath the UST system equipment.
- Collect and submit confirmation soil samples for laboratory analysis. The samples were collected from the UST excavation, pipe runs, and below each former dispenser.
- Field screen soil samples using a photoionization detector (PID), as well as visual and water sheen methods.
- Submit 5 soil samples from the UST basin excavation, 5 soil samples from the pipe runs and 7 soil samples from beneath the fuel dispensers to an Oregon accredited analytical laboratory for chemical analysis as follows:
  - Hydrocarbon identification by Northwest Method NWTPH-HCID
- Collect a sample of the UST excavation water for chemical analysis as follows:
  - Gasoline-range petroleum hydrocarbons by Northwest Method NWTPH-Gx
  - Diesel-range petroleum hydrocarbons by Northwest Method NWTPH-Dx with and without silica gel cleanup
- Prepare a report summarizing the decommissioning activities and the laboratory analytical results. Analytical results will be compared to the DEQ risk-based concentrations (RBCs) that are potentially applicable at the site.

4.0 Field Activities

On August 20, 2024, GeoEngineers collected soil and groundwater samples from the locations shown in Figure 2. As mentioned above, the fuel dispensers, interior piping and USTs had been removed previously by The Kroger Company's contractor Meng-Hannan Construction, Inc. (Meng-Hannan) of Portland, Oregon. Meng-Hannan reported that the fuel remaining in the USTs was removed by a Fred Meyer fuel distributor and hauled to another Fred Meyer fueling location. The USTs were triple rinsed by Universal Applicators and the sludge was placed into a 500-gallon tote and transported to the Oil Re-refining Company for recycling. Reportedly, the exterior surfaces of the USTs appeared to be good condition with no evidence of pinholes or other damage observed. Reportedly, the USTs were given to a local contractor for reuse. The sludge recycling receipt and USTs bill of sale are included in Appendix A.

Five samples of native soil were collected at depths of approximately 10 feet bgs at the soil/water interface from the UST excavation sidewalls. The samples were obtained using the excavator to expose native soil from the excavation sidewalls. GeoEngineers was unable to collect a soil sample from the south sidewall due to the presence of pea gravel backfill that extended at least 15 feet south of the USTs.

One sample of native soil was collected at a depth of approximately 3 feet bgs beneath each of the 7 dispenser locations and at approximately every 20 linear feet within the pipe runs.

GeoEngineers screened the soil using a PID for volatile organic compounds including petroleum hydrocarbons. PID readings were less than 1 part per million (ppm) at screened locations. Visual evidence of petroleum staining was not observed in soil adjacent to or beneath the tanks, lines or dispensers. Visual evidence of a petroleum sheen was not observed on standing water inside the UST excavation.

One sample of UST excavation water was collected on August 20, 2024. The UST excavation remained open pending the water analytical results that were received on August 28, 2024. DEQ approved proceeding with backfilling the excavation on August 28, 2024.

5.0 Laboratory Analytical Results

The soil samples from the UST excavation, dispensers and pipe runs were submitted to Apex Laboratory (Apex) in Tigard, Oregon for the chemical analysis of petroleum hydrocarbons identification by Northwest Method NWTPH-HCID.

The UST water sample was submitted for chemical analysis of gasoline, diesel, and heavy-oil range hydrocarbons by Northwest Methods NWTPH-Gx and NWTPH-Dx.

Chemical analytical results are summarized in the attached Tables 1 and 2. The sample locations are shown on Figure 2. Appendix B outlines the field sampling procedures, and photographs of the field activities are included in Appendix C. The analytical laboratory report is included in Appendix D.

5.1 CHEMICAL ANALYTICAL RESULTS

The chemical analytical results are discussed below:

5.1.1 UST Excavation Soil Samples

A total of five confirmation soil samples were collected from the sidewalls of the UST excavation. No petroleum hydrocarbons were detected above laboratory reporting limits.

5.1.2 Dispenser and Piping Soil Samples

A total of 12 confirmation soil samples were collected from beneath the seven fuel island dispensers and the pipe runs connecting the USTs to the dispensers. No gasoline-, diesel-, or oil-range hydrocarbons were detected above laboratory reporting limits.

5.1.3 UST Excavation Groundwater Sample

Water was present in the UST excavation upon removal of the USTs at a depth of approximately 10 feet bgs. Diesel-range hydrocarbons were detected in the water sample at a concentration of 123 micrograms per liter (µg/L), above DEQ's most conservative risk-based concentration of 100 µg/L. However, the laboratory reported that the detection may be due to weathered diesel, mineral oil, or a contribution from a related component. The sample was re-analyzed using silica gel cleanup. No diesel-range hydrocarbons were detected above laboratory reporting limits when silica gel cleanup was performed indicating that the original detection was most likely due to non-petroleum polar or organic matter present in the sample.

No gasoline- or oil-range hydrocarbons were detected above laboratory reporting limits,

6.0 Conclusions

Soil and groundwater sampling activities were conducted on August 20, 2024, at the Fred Meyer 126 Fuel Center located at 1101 Grants Pass Parkway in Grants Pass, Oregon. One groundwater and 17 soil samples were submitted for chemical analysis from the diesel/gasoline UST excavation, former dispenser islands, and pipe runs.

No indications of petroleum hydrocarbon contamination were observed in the field, and petroleum hydrocarbons were not detected in any soil samples. The UST excavation water sample exhibited a low concentration of diesel-range hydrocarbons that the laboratory noted as weathered diesel, mineral oil or a related component. Upon re-analysis using silica gel cleanup, no diesel-range hydrocarbons were detected.

Based on field observations and laboratory analytical results, petroleum contaminated media (soil and groundwater) is not present at the locations sampled beneath the gasoline and diesel UST excavation, or the fuel dispenser island and piping areas. In our opinion, no further environmental assessment is necessary at this site.

7.0 Limitations

We have prepared this report for the exclusive use of The Kroger Company.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. The conclusions and opinions presented in this report are based on our professional knowledge, judgment and experience. No warranty or other conditions, express or implied, should be understood.

Any electronic form, facsimile or hard copy of the original document (email, text, table and/or figure), if provided, and any attachments should be considered a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

Please refer to Appendix E, Report Limitations and Guidelines for Use, for additional information pertaining to use of this report.

8.0 References

Oregon Administrative Rule 340-150-0180 – Site Assessment Requirements. Section 4 Site Assessment of UST Systems Undergoing a Change-in-Service. OAR 340-150-0180 – Site Assessment Requirements (public.law).

Oregon Department of Environmental Quality – Underground Storage Tank Program, 2021. "Cleanup Rules for Leaking Petroleum UST Systems OAR 340-122-0205 through 340-122-0360 and Associated Guidance Documents." Originally published December 2000 Editorial updates, January 2008 and May 2009.

Ramp, L, and N.V. Peterson, 1979. Geology and mineral resources of Josephine County, Oregon: Oregon Department of Geology and Mineral Industries, Bulletin 100, 45 p., 4 pl., scale 1:62,500.

Tables

Table 1

Soil Chemical Analytical Results[1]
Petroleum Hydrocarbons
Fred Meyer Fueling Facility #126
Grants Pass, Oregon

Sample Identification	Date	Sample Depth (feet bgs)	PID Screening Result (ppm)	Sheen	Hydrocarbon Identification Screen by NWTPH-HCID		
					Gasoline-Range Hydrocarbons (mg/kg)	Diesel-Range Hydrocarbons (mg/kg)	Oil-Range Hydrocarbons (mg/kg)
Pump 1	8/20/2024	3	<1	No Sheen	< 22.5	< 56.3	< 113
Pump 2	8/20/2024	3	<1	No Sheen	< 22.5	< 56.2	< 112
Pump 3	8/20/2024	3	<1	No Sheen	< 21.2	< 52.9	< 106
Pump 4	8/20/2024	3	<1	No Sheen	< 22.1	< 55.2	< 110
Pump 5	8/20/2024	3	<1	No Sheen	< 20.3	< 50.9	< 102
Pump 6	8/20/2024	3	<1	No Sheen	< 21.4	< 53.6	< 107
Pump 7	8/20/2024	3	<1	No Sheen	< 23.4	< 58.5	< 117
Line 1	8/20/2024	3	<1	No Sheen	< 20.6	< 51.6	< 103
Line 2	8/20/2024	3	<1	No Sheen	< 22.1	< 55.3	< 111
Line 3	8/20/2024	3	<1	No Sheen	< 20.4	< 51.0	< 102
Line 4	8/20/2024	3	<1	No Sheen	< 21.7	< 54.3	< 109
Line 5	8/20/2024	3	<1	No Sheen	< 21.0	< 52.5	< 105
UST-E-1	8/20/2024	10	<1	No Sheen	< 22.9	< 57.3	< 115
UST-E-3	8/20/2024	10	<1	No Sheen	< 22.8	< 57.0	< 114
UST-E-4	8/20/2024	10	<1	No Sheen	< 22.9	< 57.2	< 114
UST-E-5	8/20/2024	10	<1	No Sheen	< 21.3	< 53.2	< 106
UST-E-6	8/20/2024	10	<1	No Sheen	< 22.7	< 56.7	< 113
Potentially Applicable DEQ Risk-Based Concentrations[2]							
Soil Ingestion, Dermal Contact and Inhalation							
Residential					1,200	1,100	2,800
Urban Residential					2,500	2,200	5,700
Occupational					20,000	14,000	36,000
Construction Worker					9,700	4,600	11,000
Excavation Worker					NE	NE	NE
Soil Volatilization to Outdoor Air							
Residential					5,900	NE	NE
Urban Residential					5,900	NE	NE
Occupational					69,000	NE	NE
Soil Leaching to Groundwater							
Residential					31	9,500	NE
Urban Residential					31	9,500	NE
Occupational					130	NE	NE

Notes:

[1] Chemical analyses were performed by Apex Environmental Laboratory of Tigard, Oregon.

[2] Oregon Department of Environmental Quality (DEQ) Risk Based Decision Making for the Remediation of Petroleum-Contaminated Sites, revised in August 2023.

mg/kg = milligrams per kilogram; bgs = below ground surface; NE = Not Established; ppm = parts per million.

< indicates the analyte was not detected above the laboratory reporting limit shown.

Table 2

Groundwater Chemical Analytical Results[1]

Petroleum Hydrocarbons

Fred Meyer Fueling Facility #126

Grants Pass, Oregon

Sample Identification	Date	Gasoline-Range Hydrocarbons NWTPH-Gx (µg/L)	Diesel-Range Hydrocarbons NWTPH-Dx No Silica Gel Cleanup (µg/L)	Oil-Range Hydrocarbons NWTPH-Dx No Silica Gel Cleanup (µg/L)	Diesel-Range Hydrocarbons NWTPH-Dx With Silica Gel Cleanup (µg/L)	Oil-Range Hydrocarbons NWTPH-Dx With Silica Gel Cleanup (µg/L)
UST Excavation Water	8/20/2024	< 100	**123**[2]	< 154	< 76.9	< 154
Potentially Applicable DEQ Risk-Based Concentrations[3]						
Groundwater Ingestion and Inhalation from Tap Water						
Residential		110	100	300	100	300
Urban Residential		110	100	300	100	300
Occupational		450	430	1,300	430	1,300
Groundwater Volatilization to Outdoor Air						
Residential		NE	NE	NE	NE	NE
Urban Residential		NE	NE	NE	NE	NE
Occupational		NE	NE	NE	NE	NE
Groundwater in Excavation						
Construction and Excavation Worker		14,000	NE	NE	NE	NE

Notes:

[1] Chemical analyses were performed by Apex Environmental Laboratory of Tigard, Oregon.

[2] This result is flagged by the laboratory as follows: This hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component. The result was non-detect when analysis included silica gel cleanup.

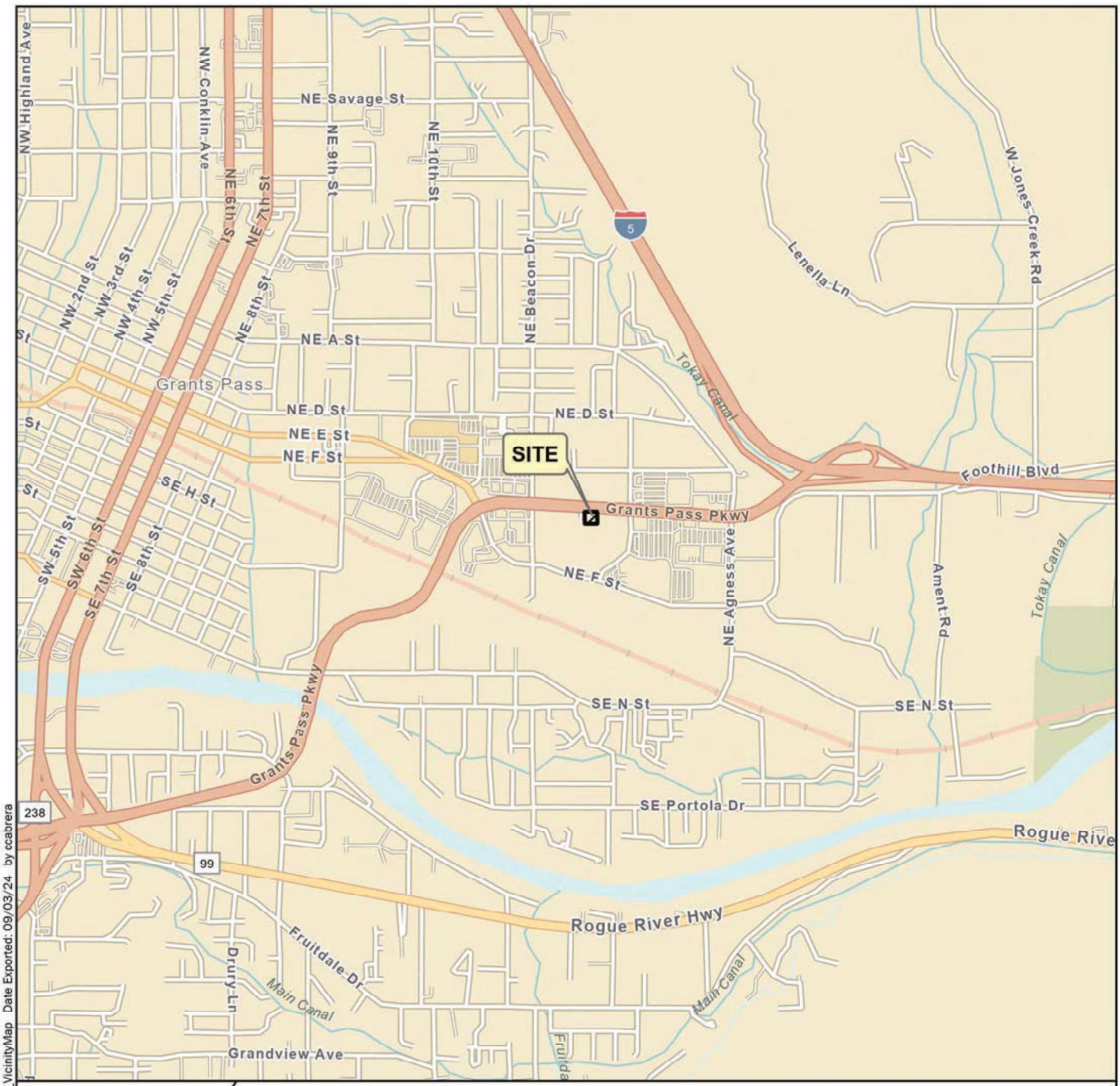
[3] Oregon Department of Environmental Quality (DEQ) Risk Based Decision Making for the Remediation of Petroleum-Contaminated Sites, revised August 2023.

µg/L = micrograms per liter; NE = Not Established;

< indicates the analyte was not detected above the laboratory reporting limit shown.

Bold indicates the analyte was detected above the laboratory reporting limit.

Figures



Source(s):
- ESRI

Coordinate System: NAD 1983 UTM Zone 10N

Disclaimer: This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.

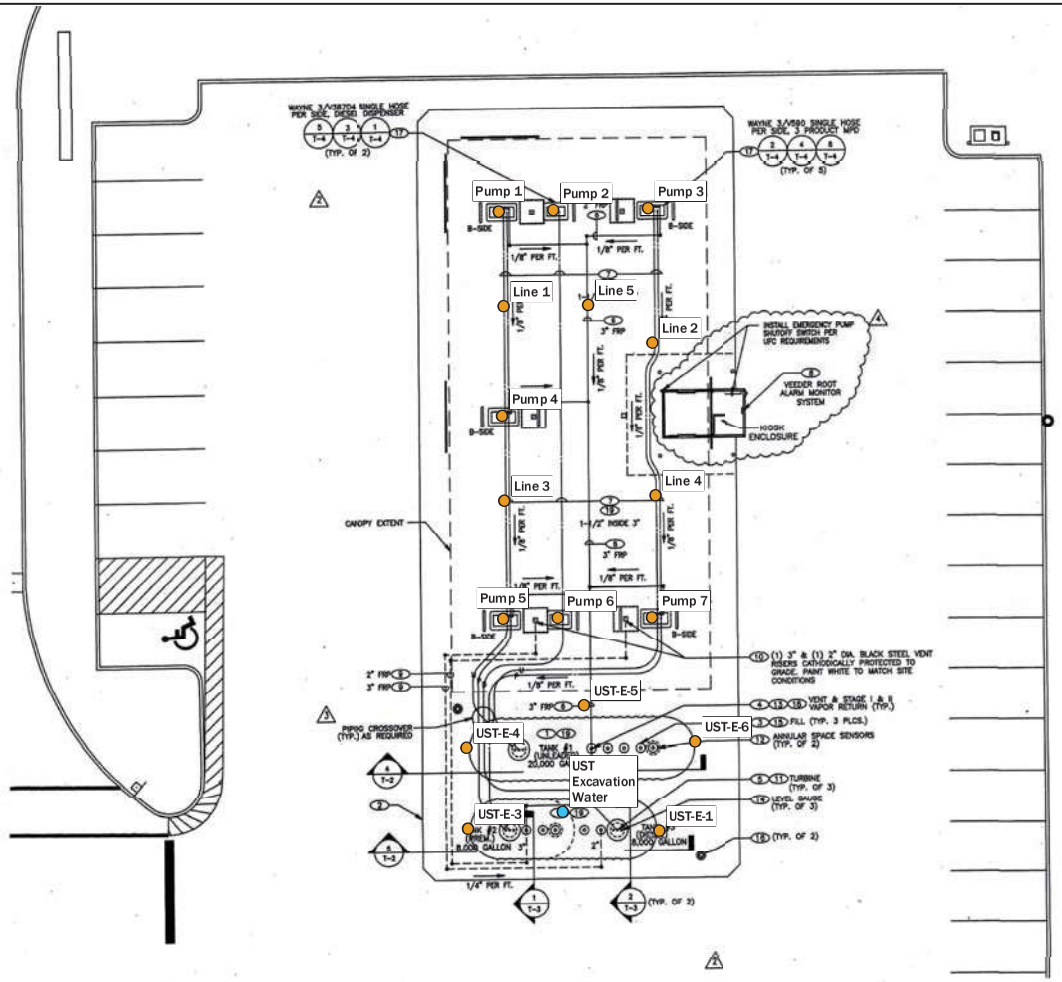
Vicinity Map

1101 Grants Pass Parkway
Grants Pass, Oregon

GeoEngineers

Figure 1

P:\2\2831115\GIS\2831115_Project\2831115_Project.aprx\283111500_F01_VicinityMap Date Exported: 09/03/24 by ccabrera



Soil Sample Location

Water Sample Location

Source(s):
- Underground Tank and Piping Site Plan, T-1, June 14, 2001 from The Kroger Company

Coordinate System: NAD 1983 StatePlane Oregon South FIPS 3602 Feet Intl

Disclaimer: This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.

Site Layout

1101 Grants Pass Parkway
Grants Pass, Oregon

GeoEngineers

Figure 2

P:\2\28311\15\GIS\28311115_Project\28311115_Project.aprx\28311500_F02_SiteLayout Date Exported: 08/30/24 by ccabrera

Appendices

Appendix A

UST Sludge Recycling Receipt and UST Bill of Sale

Orrco™
The oil recycler.

Head Office
4150 N. Suttle Rd.
Portland, OR 97217
1-800-367-8894

RECEIVING RECORD

R **01-24-0809-001**

Received From:
Universal Applicators
10350 N Vancover Way
Portland OR 97217
EPA#
Phone: 503-236-6359
Customer ID# ***3259***
Driver: Chris

Receiving Location: Plant # **1**
FPI
4150 N. Suttle Road
Portland, OR 97217

Phone 503-286-8352
EPA# ORD980975692

Date	Terms	Written By	Sales Rep.	Page
08/09/24	-0-	Salomon	83	***1*** of ***1***

Line	Qty.	Unit	Item	%H20	Manifest #	B/L#	Net Qty
1	*1*	*Each*	*Barrel Handling* Generator ID# 3259 Universal Applicators empty tote for disposal				
2	*2*	*Each*	*Barrel Handling* Generator ID# 3259 Universal Applicators 55 gallon brls				
3	*1*	*Each*	*XRF Analysis Testing* Generator ID# 3259 Universal Applicators profile on file				
			Total Each 4.				
4	*350*	*Gal.*	*Emulsified Fuel* Generator ID# 3259 Universal Applicators profile on file	*85 %*			
			Total Gal. 350.				

Customer warrents that the waste petroleum products being received do not contain any contaminants including, without limitation, pesticides, chlorinated solvents at total concentrations greater than 1000 PPM, PCB's greater than 2 PPM, or any other material classified as hazardous waste by 40 CFR part 261, Subparts C and D (implementing the Federal Resource Conservation and Recovery Act) or by any other state or local hazardous waste classification program. Should Laboratory tests find this product not in compliance with 40 CFR part 261 customer agrees to pay all disposal costs incurred.

Signed X _____ DATE: 08/09/24

UNDERGROUND STORAGE TANK
BILL OF SALE

FOR VALUE RECEIVED, the receipt and sufficiency of which are hereby acknowledged, [INSERT NAME OF SELLER] ("Seller") hereby sells, conveys and transfers to [INSERT NAME OF PURCHASER] ("Purchaser") all of the right, title and interest of Seller in and to the underground petroleum storage tanks and piping, equipment and other appurtenances attached thereto (collectively, the "Tanks") removed from the premises located at [INSERT COMPLETE ADDRESS OF PREMISES].

PURCHASER IS ADVISED THAT (A) THE TANKS CONTAINED PETROLEUM PRODUCTS AND ARE NOT VAPOR-FREE, AND (B) THE TANKS ARE NOT SUITABLE FOR STORAGE OF FOOD OR LIQUIDS INTENDED FOR HUMAN OR ANIMAL CONSUMPTION.

THE SALE AND TRANSFER OF THE TANKS IS "AS IS" AND "WHERE IS" WITH ALL FAULTS OR DEFECTS, WHETHER KNOWN OR UNKNOWN, AND SELLER MAKES NO EXPRESS OR IMPLIED WARRANTIES OR REPRESENTATIONS REGARDING THE CONDITION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE TANKS.

IN WITNESS WHEREOF, this Bill of Sale has been executed this 10th day of Sept., 2024

[INSERT NAME OF SELLER]

By: Jeff Fowler

Printed Name: JEFF FOWLER

Its: _____

Appendix B
Field Procedures

Appendix B

FIELD PROCEDURES

General

Soil and water were sampled at the Fred Meyer 126 Fuel Center located at 1101 Grants Pass Parkway in Grants Pass, Oregon.

Soil Sample Collection

A GeoEngineers, Inc.'s (GeoEngineers') field representative observed and classified the soil encountered in the excavation. Soil encountered in the excavation was classified in the field in general accordance with ASTM International (ASTM) D 2488, the Standard Practice for Classification of Soils and Visual-Manual Procedure.

Soil selected for analysis was removed from the excavation using clean nitrile gloves, transferred into a laboratory-prepared container, labeled using a waterproof pen and placed on ice in a clean plastic lined cooler. Each sample was documented in a field notebook and chain-of-custody (COC), including sample name, sample collection date and time, sample type, sample depth, soil description, requested analytical methods and sampler name. Soil samples for petroleum hydrocarbon analyses were collected and preserved in accordance with NWTPH methods.

Disposable sampling equipment was used at the site whenever possible. The sample cooler was delivered to the analytical laboratory under standard COC procedures.

Field Screening of Soil Samples

GeoEngineers' field representative performed field-screening tests on soil samples obtained from the excavation. Field screening results were used as a general guideline to assess areas of possible petroleum-related contamination. The field screening methods used include: (1) PID screening; (2) Sheen screening; and (3) visual screening.

PID screening involves placing soil in a container and after agitating or warming, measuring total volatile organic compounds in the available head space. Visual screening consists of observing soil for stains indicative of metal- or petroleum-related contamination. Field screening results can be site-specific. The effectiveness of field screening can vary with temperature, moisture content, organic content, soil type and contaminant type and age.

Water Sample Collection

A GeoEngineers field representative collected samples of the UST excavation water by transferring the water into laboratory-prepared containers. Containers were labeled using a waterproof pen and placed on ice in a clean plastic lined cooler. Each sample was documented on the COC by sample name, sample collection date and time, sample type, requested analytical methods and sampler name. Water samples for petroleum hydrocarbon analyses were collected and preserved in accordance with NWTPH methods.

Appendix C
Site Photographs

Figure 1. UST Excavation, photo facing north.

Figure 2. UST Excavation, photo facing northeast.

Figure 3. UST Excavation, photo facing southwest.

Figure 4. UST Excavation, photo facing southeast.

Figure 5. UST-E-6 east sidewall sample excavation.

Figure 6. UST Excavation, southern sidewall sampling attempt.

Figure 7. UST Excavation, southern sidewall sampling attempt.

Figure 8. UST-E-4 sidewall sampling location.

Figure 9. Site overview, facing southwest.

Figure 10. Site overview, facing west

Figure 11. Site overview, facing northwest.

Figure 12. Native soil beneath pump 1.

Figure 13. Example of native soil from beneath dispenser island.

Appendix D
Analytical Laboratory Report

Appendix D

ANALYTICAL LABORATORY REPORTS

Samples

Chain-of-custody procedures were followed during the transport of the field samples to Apex Laboratory located in Tigard, Oregon. The samples were held in cold storage pending extraction and/or analysis. The analytical results and laboratory quality control records are included in this appendix.

Analytical Data Review

The laboratory maintains an internal quality assurance/quality control (QA/QC) program as documented in its laboratory quality assurance manual. The laboratory uses a combination of blanks, surrogate recoveries, duplicates, matrix spike recoveries, matrix spike duplicate recoveries, blank spike recoveries and blank spike duplicate recoveries to evaluate the analytical results.

Analytical Data Review Summary

We reviewed the laboratory internal QA/QC. Based on our review, in our opinion, the quality of the analytical data is acceptable for the intended use.

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

ANALYTICAL REPORT

Wednesday, August 28, 2024

Marsi Beeson
GeoEngineers - Portland
5820 S Kelly Ave Unit B
Portland, OR 97239

RE: A4H1353 - Fred Meyer 126 UST Decomm. - 2831-115-00

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 A4H1353, which was received by the laboratory on 8/21/2024 at 12:49:00PM.

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
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 2.2 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

Darrell Auvil, Client Services Manager

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.

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

ANALYTICAL REPORT

GeoEngineers - Portland	Project: Fred Meyer 126 UST Decomm.	
5820 S Kelly Ave Unit B	Project Number: 2831-115-00	Report ID:
Portland, OR 97239	Project Manager: Marsi Beeson	A4H1353 - 08 28 24 1631

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
UST-Excavation Water	A4H1353-01	Water	08/20/24 12:45	08/21/24 12:49
UST-E-6	A4H1353-02	Soil	08/20/24 13:30	08/21/24 12:49
UST-E-3	A4H1353-03	Soil	08/20/24 14:00	08/21/24 12:49
UST-E-4	A4H1353-04	Soil	08/20/24 14:30	08/21/24 12:49
UST-E-1	A4H1353-05	Soil	08/20/24 14:40	08/21/24 12:49
UST-E-5	A4H1353-06	Soil	08/20/24 14:50	08/21/24 12:49
Pump 7	A4H1353-07	Soil	08/20/24 15:10	08/21/24 12:49
Pump 6	A4H1353-08	Soil	08/20/24 15:20	08/21/24 12:49
Pump 5	A4H1353-09	Soil	08/20/24 15:30	08/21/24 12:49
Line 4	A4H1353-10	Soil	08/20/24 16:00	08/21/24 12:49
Line 3	A4H1353-11	Soil	08/20/24 16:10	08/21/24 12:49
Pump 4	A4H1353-12	Soil	08/20/24 16:30	08/21/24 12:49
Line 2	A4H1353-13	Soil	08/20/24 16:40	08/21/24 12:49
Line 5	A4H1353-14	Soil	08/20/24 17:00	08/21/24 12:49
Line 1	A4H1353-15	Soil	08/20/24 17:15	08/21/24 12:49
Pump 3	A4H1353-16	Soil	08/20/24 17:30	08/21/24 12:49
Pump 2	A4H1353-17	Soil	08/20/24 17:40	08/21/24 12:49
Pump 1	A4H1353-18	Soil	08/20/24 17:50	08/21/24 12:49

Apex Laboratories

Darrell Auvil, Client Services Manager

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.

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

ANALYTICAL REPORT

GeoEngineers - Portland	Project: **Fred Meyer 126 UST Decomm.**	
5820 S Kelly Ave Unit B	Project Number: **2831-115-00**	**Report ID:**
Portland, OR 97239	Project Manager: **Marsi Beeson**	**A4H1353 - 08 28 24 1631**

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
UST-E-6 (A4H1353-02)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	22.7	mg/kg dry	1	08/22/24 21:54	NWTPH-HCID	
Diesel Range Organics	ND	---	56.7	mg/kg dry	1	08/22/24 21:54	NWTPH-HCID	
Oil Range Organics	ND	---	113	mg/kg dry	1	08/22/24 21:54	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*86 %*	*Limits: 50-150 %*	*1*	*08/22/24 21:54*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*91 %*	*50-150 %*	*1*	*08/22/24 21:54*	*NWTPH-HCID*	
UST-E-3 (A4H1353-03)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	22.8	mg/kg dry	1	08/22/24 22:41	NWTPH-HCID	
Diesel Range Organics	ND	---	57.0	mg/kg dry	1	08/22/24 22:41	NWTPH-HCID	
Oil Range Organics	ND	---	114	mg/kg dry	1	08/22/24 22:41	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*79 %*	*Limits: 50-150 %*	*1*	*08/22/24 22:41*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*84 %*	*50-150 %*	*1*	*08/22/24 22:41*	*NWTPH-HCID*	
UST-E-4 (A4H1353-04)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	22.9	mg/kg dry	1	08/22/24 23:05	NWTPH-HCID	
Diesel Range Organics	ND	---	57.2	mg/kg dry	1	08/22/24 23:05	NWTPH-HCID	
Oil Range Organics	ND	---	114	mg/kg dry	1	08/22/24 23:05	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*81 %*	*Limits: 50-150 %*	*1*	*08/22/24 23:05*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*88 %*	*50-150 %*	*1*	*08/22/24 23:05*	*NWTPH-HCID*	
UST-E-1 (A4H1353-05)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	22.9	mg/kg dry	1	08/22/24 23:28	NWTPH-HCID	
Diesel Range Organics	ND	---	57.3	mg/kg dry	1	08/22/24 23:28	NWTPH-HCID	
Oil Range Organics	ND	---	115	mg/kg dry	1	08/22/24 23:28	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*81 %*	*Limits: 50-150 %*	*1*	*08/22/24 23:28*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*86 %*	*50-150 %*	*1*	*08/22/24 23:28*	*NWTPH-HCID*	
UST-E-5 (A4H1353-06)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	21.3	mg/kg dry	1	08/22/24 23:52	NWTPH-HCID	
Diesel Range Organics	ND	---	53.2	mg/kg dry	1	08/22/24 23:52	NWTPH-HCID	
Oil Range Organics	ND	---	106	mg/kg dry	1	08/22/24 23:52	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*85 %*	*Limits: 50-150 %*	*1*	*08/22/24 23:52*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*90 %*	*50-150 %*	*1*	*08/22/24 23:52*	*NWTPH-HCID*	

Apex Laboratories

Darrell Auvil, Client Services Manager

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.

APEX LABORATORIES

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

ANALYTICAL REPORT

GeoEngineers - Portland	Project: **Fred Meyer 126 UST Decomm.**	
5820 S Kelly Ave Unit B	Project Number: **2831-115-00**	**Report ID:**
Portland, OR 97239	Project Manager: **Marsi Beeson**	**A4H1353 - 08 28 24 1631**

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Pump 7 (A4H1353-07)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	23.4	mg/kg dry	1	08/23/24 00:15	NWTPH-HCID	
Diesel Range Organics	ND	---	58.5	mg/kg dry	1	08/23/24 00:15	NWTPH-HCID	
Oil Range Organics	ND	---	117	mg/kg dry	1	08/23/24 00:15	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*86 %*	*Limits: 50-150 %*	*1*	*08/23/24 00:15*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*91 %*	*50-150 %*	*1*	*08/23/24 00:15*	*NWTPH-HCID*	
Pump 6 (A4H1353-08)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	21.4	mg/kg dry	1	08/23/24 00:39	NWTPH-HCID	
Diesel Range Organics	ND	---	53.6	mg/kg dry	1	08/23/24 00:39	NWTPH-HCID	
Oil Range Organics	ND	---	107	mg/kg dry	1	08/23/24 00:39	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*81 %*	*Limits: 50-150 %*	*1*	*08/23/24 00:39*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*88 %*	*50-150 %*	*1*	*08/23/24 00:39*	*NWTPH-HCID*	
Pump 5 (A4H1353-09)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	20.3	mg/kg dry	1	08/23/24 01:02	NWTPH-HCID	
Diesel Range Organics	ND	---	50.9	mg/kg dry	1	08/23/24 01:02	NWTPH-HCID	
Oil Range Organics	ND	---	102	mg/kg dry	1	08/23/24 01:02	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*74 %*	*Limits: 50-150 %*	*1*	*08/23/24 01:02*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*79 %*	*50-150 %*	*1*	*08/23/24 01:02*	*NWTPH-HCID*	
Line 4 (A4H1353-10)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	21.7	mg/kg dry	1	08/23/24 01:25	NWTPH-HCID	
Diesel Range Organics	ND	---	54.3	mg/kg dry	1	08/23/24 01:25	NWTPH-HCID	
Oil Range Organics	ND	---	109	mg/kg dry	1	08/23/24 01:25	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*69 %*	*Limits: 50-150 %*	*1*	*08/23/24 01:25*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*76 %*	*50-150 %*	*1*	*08/23/24 01:25*	*NWTPH-HCID*	
Line 3 (A4H1353-11)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	20.4	mg/kg dry	1	08/23/24 01:49	NWTPH-HCID	
Diesel Range Organics	ND	---	51.0	mg/kg dry	1	08/23/24 01:49	NWTPH-HCID	
Oil Range Organics	ND	---	102	mg/kg dry	1	08/23/24 01:49	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*78 %*	*Limits: 50-150 %*	*1*	*08/23/24 01:49*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*84 %*	*50-150 %*	*1*	*08/23/24 01:49*	*NWTPH-HCID*	

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

GeoEngineers - Portland	Project: **Fred Meyer 126 UST Decomm.**	
5820 S Kelly Ave Unit B	Project Number: **2831-115-00**	**Report ID:**
Portland, OR 97239	Project Manager: **Marsi Beeson**	**A4H1353 - 08 28 24 1631**

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Pump 4 (A4H1353-12)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	22.1	mg/kg dry	1	08/23/24 02:12	NWTPH-HCID	
Diesel Range Organics	ND	---	55.2	mg/kg dry	1	08/23/24 02:12	NWTPH-HCID	
Oil Range Organics	ND	---	110	mg/kg dry	1	08/23/24 02:12	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*85 %*	*Limits: 50-150 %*	*1*	*08/23/24 02:12*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*90 %*	*50-150 %*	*1*	*08/23/24 02:12*	*NWTPH-HCID*	
Line 2 (A4H1353-13)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	22.1	mg/kg dry	1	08/23/24 02:36	NWTPH-HCID	
Diesel Range Organics	ND	---	55.3	mg/kg dry	1	08/23/24 02:36	NWTPH-HCID	
Oil Range Organics	ND	---	111	mg/kg dry	1	08/23/24 02:36	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*66 %*	*Limits: 50-150 %*	*1*	*08/23/24 02:36*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*71 %*	*50-150 %*	*1*	*08/23/24 02:36*	*NWTPH-HCID*	
Line 5 (A4H1353-14)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	21.0	mg/kg dry	1	08/23/24 02:59	NWTPH-HCID	
Diesel Range Organics	ND	---	52.5	mg/kg dry	1	08/23/24 02:59	NWTPH-HCID	
Oil Range Organics	ND	---	105	mg/kg dry	1	08/23/24 02:59	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*78 %*	*Limits: 50-150 %*	*1*	*08/23/24 02:59*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*83 %*	*50-150 %*	*1*	*08/23/24 02:59*	*NWTPH-HCID*	
Line 1 (A4H1353-15)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	20.6	mg/kg dry	1	08/23/24 03:23	NWTPH-HCID	
Diesel Range Organics	ND	---	51.6	mg/kg dry	1	08/23/24 03:23	NWTPH-HCID	
Oil Range Organics	ND	---	103	mg/kg dry	1	08/23/24 03:23	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*76 %*	*Limits: 50-150 %*	*1*	*08/23/24 03:23*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*80 %*	*50-150 %*	*1*	*08/23/24 03:23*	*NWTPH-HCID*	
Pump 3 (A4H1353-16)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	21.2	mg/kg dry	1	08/23/24 03:46	NWTPH-HCID	
Diesel Range Organics	ND	---	52.9	mg/kg dry	1	08/23/24 03:46	NWTPH-HCID	
Oil Range Organics	ND	---	106	mg/kg dry	1	08/23/24 03:46	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*77 %*	*Limits: 50-150 %*	*1*	*08/23/24 03:46*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*82 %*	*50-150 %*	*1*	*08/23/24 03:46*	*NWTPH-HCID*	

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ANALYTICAL REPORT

GeoEngineers - Portland	Project: **Fred Meyer 126 UST Decomm.**	
5820 S Kelly Ave Unit B	Project Number: **2831-115-00**	**Report ID:**
Portland, OR 97239	Project Manager: **Marsi Beeson**	**A4H1353 - 08 28 24 1631**

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Pump 2 (A4H1353-17)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	22.5	mg/kg dry	1	08/23/24 04:09	NWTPH-HCID	
Diesel Range Organics	ND	---	56.2	mg/kg dry	1	08/23/24 04:09	NWTPH-HCID	
Oil Range Organics	ND	---	112	mg/kg dry	1	08/23/24 04:09	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*77 %*	*Limits: 50-150 %*	*1*	*08/23/24 04:09*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*82 %*	*50-150 %*	*1*	*08/23/24 04:09*	*NWTPH-HCID*	
Pump 1 (A4H1353-18)				**Matrix: Soil**		**Batch: 24H0795**		
Gasoline Range Organics	ND	---	22.5	mg/kg dry	1	08/23/24 04:33	NWTPH-HCID	
Diesel Range Organics	ND	---	56.3	mg/kg dry	1	08/23/24 04:33	NWTPH-HCID	
Oil Range Organics	ND	---	113	mg/kg dry	1	08/23/24 04:33	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*75 %*	*Limits: 50-150 %*	*1*	*08/23/24 04:33*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*80 %*	*50-150 %*	*1*	*08/23/24 04:33*	*NWTPH-HCID*	

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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
UST-Excavation Water (A4H1353-01)				**Matrix: Water**		**Batch: 24H0802**		
Diesel	**0.123**	---	0.0769	mg/L	1	08/23/24 07:40	NWTPH-Dx LL	**F-11**
Oil	ND	---	0.154	mg/L	1	08/23/24 07:40	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 93 %*	*Limits: 50-150 %*		*1*	*08/23/24 07:40*	*NWTPH-Dx LL*	

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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
UST-Excavation Water (A4H1353-01)				**Matrix: Water**		**Batch: 24H0990**		
Diesel	ND	---	0.0769	mg/L	1	08/27/24 21:11	NWTPH-Dx/SGC	
Oil	ND	---	0.154	mg/L	1	08/27/24 21:11	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 77 %*		*Limits: 50-150 %*	*1*	*08/27/24 21:11*	*NWTPH-Dx/SGC*	

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ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
UST-Excavation Water (A4H1353-01RE1)				**Matrix: Water**		**Batch: 24H0854**		
Gasoline Range Organics	ND	---	0.100	mg/L	1	08/23/24 10:24	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 94 %*		*Limits: 50-150 %*	*1*	*08/23/24 10:24*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*112 %*		*50-150 %*	*1*	*08/23/24 10:24*	*NWTPH-Gx (MS)*	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
UST-E-6 (A4H1353-02)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**87.1**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
UST-E-3 (A4H1353-03)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**85.9**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
UST-E-4 (A4H1353-04)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**85.0**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
UST-E-1 (A4H1353-05)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**85.5**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
UST-E-5 (A4H1353-06)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**87.7**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
Pump 7 (A4H1353-07)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**83.3**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
Pump 6 (A4H1353-08)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**91.9**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
Pump 5 (A4H1353-09)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**94.0**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
Line 4 (A4H1353-10)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**91.7**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
Line 3 (A4H1353-11)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**92.6**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
Pump 4 (A4H1353-12)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**89.5**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
Line 2 (A4H1353-13)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**89.6**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
Line 5 (A4H1353-14)				**Matrix: Soil**		**Batch: 24H0763**		

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Portland, OR 97239	Project Manager: **Marsi Beeson**	**A4H1353 - 08 28 24 1631**

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Line 5 (A4H1353-14)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**92.5**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
Line 1 (A4H1353-15)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**88.2**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
Pump 3 (A4H1353-16)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**89.8**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
Pump 2 (A4H1353-17)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**86.3**	---	1.00	%	1	08/22/24 05:51	EPA 8000D	
Pump 1 (A4H1353-18)				**Matrix: Soil**		**Batch: 24H0763**		
% Solids	**87.6**	---	1.00	%	1	08/22/24 05:51	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 24H0795 - EPA 3546 (Fuels)							Soil					
Blank (24H0795-BLK1)			Prepared: 08/22/24 05:36 Analyzed: 08/22/24 21:31									
NWTPH-HCID												
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	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery:*	*85 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
4-Bromofluorobenzene (Surr)			*91 %*		*50-150 %*			*"*				
Duplicate (24H0795-DUP1)			Prepared: 08/22/24 05:36 Analyzed: 08/22/24 22:18									
QC Source Sample: UST-E-6 (A4H1353-02)												
NWTPH-HCID												
Gasoline Range Organics	ND	---	22.7	mg/kg dry	1	---	ND	---	---	---	30%	
Diesel Range Organics	ND	---	56.7	mg/kg dry	1	---	ND	---	---	---	30%	
Oil Range Organics	ND	---	113	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		*Recovery:*	*83 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
4-Bromofluorobenzene (Surr)			*89 %*		*50-150 %*			*"*				
Duplicate (24H0795-DUP2)			Prepared: 08/22/24 05:36 Analyzed: 08/23/24 04:56									
QC Source Sample: Pump 1 (A4H1353-18)												
NWTPH-HCID												
Gasoline Range Organics	ND	---	21.9	mg/kg dry	1	---	ND	---	---	---	30%	
Diesel Range Organics	ND	---	54.8	mg/kg dry	1	---	ND	---	---	---	30%	
Oil Range Organics	ND	---	110	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		*Recovery:*	*76 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
4-Bromofluorobenzene (Surr)			*82 %*		*50-150 %*			*"*				

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5820 S Kelly Ave Unit B	Project Number: 2831-115-00	Report ID:
Portland, OR 97239	Project Manager: Marsi Beeson	A4H1353 - 08 28 24 1631

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 24H0802 - EPA 3510C (Fuels/Acid Ext.)									Water			
Blank (24H0802-BLK1)			Prepared: 08/22/24 07:49 Analyzed: 08/22/24 21:21									
NWTPH-Dx LL												
Diesel	ND	---	0.0800	mg/L	1	---	---	---	---	---	---	
Oil	ND	---	0.160	mg/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 81 %*	*Limits: 50-150 %*		*Dilution: 1x*							
LCS (24H0802-BS1)			Prepared: 08/22/24 07:49 Analyzed: 08/22/24 21:42									Q-19
NWTPH-Dx LL												
Diesel	0.414	---	0.0800	mg/L	1	0.500	---	83	36-132%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 94 %*	*Limits: 50-150 %*		*Dilution: 1x*							
LCS Dup (24H0802-BSD1)			Prepared: 08/22/24 07:49 Analyzed: 08/22/24 22:03									Q-19
NWTPH-Dx LL												
Diesel	0.406	---	0.0800	mg/L	1	0.500	---	81	36-132%	2	30%	
Surr: o-Terphenyl (Surr)		*Recovery: 94 %*	*Limits: 50-150 %*		*Dilution: 1x*							

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ANALYTICAL REPORT

GeoEngineers - Portland	Project: Fred Meyer 126 UST Decomm.	
5820 S Kelly Ave Unit B	Project Number: 2831-115-00	Report ID:
Portland, OR 97239	Project Manager: Marsi Beeson	A4H1353 - 08 28 24 1631

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24H0990 - EPA 3510C (Fuels/Acid Ext.) w/SGC									Water			
Blank (24H0990-BLK1)			Prepared: 08/22/24 07:49		Analyzed: 08/27/24 20:09							
NWTPH-Dx/SGC												
Diesel	ND	---	0.0800	mg/L	1	---	---	---	---	---	---	
Oil	ND	---	0.160	mg/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 73 %*		*Limits: 50-150 %*				*Dilution: 1x*			
LCS (24H0990-BS1)			Prepared: 08/22/24 07:49		Analyzed: 08/27/24 20:29							
NWTPH-Dx/SGC												
Diesel	0.355	---	0.0800	mg/L	1	0.500	---	71	36-132%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 82 %*		*Limits: 50-150 %*				*Dilution: 1x*			
LCS Dup (24H0990-BSD1)			Prepared: 08/22/24 07:49		Analyzed: 08/27/24 20:50							Q-19
NWTPH-Dx/SGC												
Diesel	0.352	---	0.0800	mg/L	1	0.500	---	70	36-132%	0.9	30%	
Surr: o-Terphenyl (Surr)			*Recovery: 81 %*		*Limits: 50-150 %*				*Dilution: 1x*			

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

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5820 S Kelly Ave Unit B	Project Number: 2831-115-00	Report ID:
Portland, OR 97239	Project Manager: Marsi Beeson	A4H1353 - 08 28 24 1631

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 24H0800 - EPA 5030C									Water			
Blank (24H0800-BLK1)			Prepared: 08/22/24 06:19 Analyzed: 08/22/24 08:59									
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 95 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*112 %*	*50-150 %*			*"*					
LCS (24H0800-BS2)			Prepared: 08/22/24 06:19 Analyzed: 08/22/24 08:32									
NWTPH-Gx (MS)												
Gasoline Range Organics	0.475	---	0.100	mg/L	1	0.500	---	95	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 94 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*106 %*	*50-150 %*			*"*					
Duplicate (24H0800-DUP1)			Prepared: 08/22/24 06:19 Analyzed: 08/22/24 18:34									
QC Source Sample: Non-SDG (A4H1358-01)												
Gasoline Range Organics	**2.80**	---	0.500	mg/L	5	---	2.16	---	---	26	30%	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 104 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*108 %*	*50-150 %*			*"*					

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QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24H0854 - EPA 5030C									Water			
Blank (24H0854-BLK1)			Prepared: 08/23/24 05:59 Analyzed: 08/23/24 09:18									
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 93 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*112 %*	*50-150 %*			*"*					
LCS (24H0854-BS2)			Prepared: 08/23/24 05:59 Analyzed: 08/23/24 08:51									
NWTPH-Gx (MS)												
Gasoline Range Organics	0.446	---	0.100	mg/L	1	0.500	---	89	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 92 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*108 %*	*50-150 %*			*"*					
Duplicate (24H0854-DUP1)			Prepared: 08/23/24 05:59 Analyzed: 08/23/24 20:27									T-02
QC Source Sample: Non-SDG (A4H1397-03)												
Gasoline Range Organics	**69.1**	---	2.00	mg/L	20	---	69.8	---	---	1	30%	
Surr: 4-Bromofluorobenzene (Sur)			*Recovery: 100 %*	*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)			*103 %*	*50-150 %*			*"*					

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Portland, OR 97239	Project Manager: **Marsi Beeson**	**A4H1353 - 08 28 24 1631**

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 24H0763 - Dry Weight Prep (EPA 8000D)							**Soil**					
Duplicate (24H0763-DUP1)			Prepared: 08/21/24 09:20		Analyzed: 08/22/24 05:51							
QC Source Sample: Non-SDG (A4H1291-01)												
% Solids	**90.2**	---	1.00	%	1	---	88.7	---	---	2	10%	
Duplicate (24H0763-DUP2)			Prepared: 08/21/24 09:20		Analyzed: 08/22/24 05:51							
QC Source Sample: Non-SDG (A4H1291-02)												
% Solids	**88.5**	---	1.00	%	1	---	91.2	---	---	3	10%	
Duplicate (24H0763-DUP3)			Prepared: 08/21/24 09:20		Analyzed: 08/22/24 05:51							
QC Source Sample: Non-SDG (A4H1291-03)												
% Solids	**89.5**	---	1.00	%	1	---	90.4	---	---	1	10%	
Duplicate (24H0763-DUP4)			Prepared: 08/21/24 09:20		Analyzed: 08/22/24 05:51							
QC Source Sample: Non-SDG (A4H1291-04)												
% Solids	**87.4**	---	1.00	%	1	---	85.2	---	---	2	10%	
Duplicate (24H0763-DUP5)			Prepared: 08/21/24 09:20		Analyzed: 08/22/24 05:51							
QC Source Sample: Non-SDG (A4H1291-05)												
% Solids	**85.7**	---	1.00	%	1	---	83.5	---	---	3	10%	
Duplicate (24H0763-DUP6)			Prepared: 08/21/24 09:20		Analyzed: 08/22/24 05:51							
QC Source Sample: Non-SDG (A4H1291-06)												
% Solids	**88.9**	---	1.00	%	1	---	89.2	---	---	0.3	10%	
Duplicate (24H0763-DUP7)			Prepared: 08/21/24 09:20		Analyzed: 08/22/24 05:51							
QC Source Sample: Non-SDG (A4H1291-07)												
% Solids	**92.7**	---	1.00	%	1	---	91.5	---	---	1	10%	
Duplicate (24H0763-DUP8)			Prepared: 08/21/24 18:34		Analyzed: 08/22/24 05:51							
QC Source Sample: Non-SDG (A4H1338-01)												
% Solids	**79.5**	---	1.00	%	1	---	77.9	---	---	2	10%	

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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 24H0763 - Dry Weight Prep (EPA 8000D)							**Soil**					
Duplicate (24H0763-DUP9)			Prepared: 08/21/24 18:34		Analyzed: 08/22/24 05:51							
QC Source Sample: Non-SDG (A4H1351-01)												
% Solids	**99.3**	---	1.00	%	1	---	99.4	---	---	0.1	10%	
Duplicate (24H0763-DUPA)			Prepared: 08/21/24 18:34		Analyzed: 08/22/24 05:51							
QC Source Sample: UST-E-6 (A4H1353-02)												
EPA 8000D												
% Solids	**85.8**	---	1.00	%	1	---	87.1	---	---	1	10%	
Duplicate (24H0763-DUPB)			Prepared: 08/21/24 18:34		Analyzed: 08/22/24 05:51							
QC Source Sample: Non-SDG (A4H1379-02)												
% Solids	**91.9**	---	1.00	%	1	---	92.8	---	---	1	10%	

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

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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
Batch: 24H0795							
A4H1353-02	Soil	NWTPH-HCID	08/20/24 13:30	08/22/24 05:36	10.12g/10mL	10g/10mL	0.99
A4H1353-03	Soil	NWTPH-HCID	08/20/24 14:00	08/22/24 05:36	10.21g/10mL	10g/10mL	0.98
A4H1353-04	Soil	NWTPH-HCID	08/20/24 14:30	08/22/24 05:36	10.29g/10mL	10g/10mL	0.97
A4H1353-05	Soil	NWTPH-HCID	08/20/24 14:40	08/22/24 05:36	10.2g/10mL	10g/10mL	0.98
A4H1353-06	Soil	NWTPH-HCID	08/20/24 14:50	08/22/24 05:36	10.72g/10mL	10g/10mL	0.93
A4H1353-07	Soil	NWTPH-HCID	08/20/24 15:10	08/22/24 05:36	10.27g/10mL	10g/10mL	0.97
A4H1353-08	Soil	NWTPH-HCID	08/20/24 15:20	08/22/24 05:36	10.15g/10mL	10g/10mL	0.99
A4H1353-09	Soil	NWTPH-HCID	08/20/24 15:30	08/22/24 05:36	10.46g/10mL	10g/10mL	0.96
A4H1353-10	Soil	NWTPH-HCID	08/20/24 16:00	08/22/24 05:36	10.04g/10mL	10g/10mL	1.00
A4H1353-11	Soil	NWTPH-HCID	08/20/24 16:10	08/22/24 05:36	10.59g/10mL	10g/10mL	0.94
A4H1353-12	Soil	NWTPH-HCID	08/20/24 16:30	08/22/24 05:36	10.12g/10mL	10g/10mL	0.99
A4H1353-13	Soil	NWTPH-HCID	08/20/24 16:40	08/22/24 05:36	10.09g/10mL	10g/10mL	0.99
A4H1353-14	Soil	NWTPH-HCID	08/20/24 17:00	08/22/24 05:36	10.3g/10mL	10g/10mL	0.97
A4H1353-15	Soil	NWTPH-HCID	08/20/24 17:15	08/22/24 05:36	10.98g/10mL	10g/10mL	0.91
A4H1353-16	Soil	NWTPH-HCID	08/20/24 17:30	08/22/24 05:36	10.52g/10mL	10g/10mL	0.95
A4H1353-17	Soil	NWTPH-HCID	08/20/24 17:40	08/22/24 05:36	10.31g/10mL	10g/10mL	0.97
A4H1353-18	Soil	NWTPH-HCID	08/20/24 17:50	08/22/24 05:36	10.13g/10mL	10g/10mL	0.99

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
Batch: 24H0802							
A4H1353-01	Water	NWTPH-Dx LL	08/20/24 12:45	08/22/24 07:49	1040mL/2mL	1000mL/2mL	0.96

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

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

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24H0990							
A4H1353-01	Water	NWTPH-Dx/SGC	08/20/24 12:45	08/22/24 07:49	1040mL/2mL	1000mL/2mL	0.96

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

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5820 S Kelly Ave Unit B	Project Number: 2831-115-00	Report ID:
Portland, OR 97239	Project Manager: Marsi Beeson	A4H1353 - 08 28 24 1631

SAMPLE PREPARATION INFORMATION

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
Batch: 24H0854							
A4H1353-01RE1	Water	NWTPH-Gx (MS)	08/20/24 12:45	08/23/24 09:23	5mL/5mL	5mL/5mL	1.00

Percent Dry Weight

Prep: Dry Weight Prep (EPA 8000D)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24H0763							
A4H1353-02	Soil	EPA 8000D	08/20/24 13:30	08/21/24 18:34			NA
A4H1353-03	Soil	EPA 8000D	08/20/24 14:00	08/21/24 18:34			NA
A4H1353-04	Soil	EPA 8000D	08/20/24 14:30	08/21/24 18:34			NA
A4H1353-05	Soil	EPA 8000D	08/20/24 14:40	08/21/24 18:34			NA
A4H1353-06	Soil	EPA 8000D	08/20/24 14:50	08/21/24 18:34			NA
A4H1353-07	Soil	EPA 8000D	08/20/24 15:10	08/21/24 18:34			NA
A4H1353-08	Soil	EPA 8000D	08/20/24 15:20	08/21/24 18:34			NA
A4H1353-09	Soil	EPA 8000D	08/20/24 15:30	08/21/24 18:34			NA
A4H1353-10	Soil	EPA 8000D	08/20/24 16:00	08/21/24 18:34			NA
A4H1353-11	Soil	EPA 8000D	08/20/24 16:10	08/21/24 18:34			NA
A4H1353-12	Soil	EPA 8000D	08/20/24 16:30	08/21/24 18:34			NA
A4H1353-13	Soil	EPA 8000D	08/20/24 16:40	08/21/24 18:34			NA
A4H1353-14	Soil	EPA 8000D	08/20/24 17:00	08/21/24 18:34			NA
A4H1353-15	Soil	EPA 8000D	08/20/24 17:15	08/21/24 18:34			NA
A4H1353-16	Soil	EPA 8000D	08/20/24 17:30	08/21/24 18:34			NA
A4H1353-17	Soil	EPA 8000D	08/20/24 17:40	08/21/24 18:34			NA
A4H1353-18	Soil	EPA 8000D	08/20/24 17:50	08/21/24 18:34			NA

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QUALIFIER DEFINITIONS

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

Apex Laboratories

F-11	The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
T-02	This Batch QC sample was analyzed outside of the method specified 12 hour analysis window. Results are estimated.

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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)

Validated 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'.

Results for Volatiles analyses on soils and sediments that are reported on a “dry weight” basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an “As Received” basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

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

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

Miscellaneous Notes:

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

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

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REPORTING NOTES AND CONVENTIONS (Cont.):

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.
For further details, please request a copy of this document.
-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, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

GeoEngineers - Portland	Project: Fred Meyer 126 UST Decomm.	
5820 S Kelly Ave Unit B	Project Number: 2831-115-00	Report ID:
Portland, OR 97239	Project Manager: Marsi Beeson	A4H1353 - 08 28 24 1631

LABORATORY ACCREDITATION INFORMATION

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

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

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

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.

Apex Laboratories

Darrell Auvil, Client Services Manager

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.

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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ORELAP ID: **OR100062**

ANALYTICAL REPORT

GeoEngineers - Portland	Project: **Fred Meyer 126 UST Decomm.**	
5820 S Kelly Ave Unit B	Project Number: **2831-115-00**	**Report ID:**
Portland, OR 97239	Project Manager: **Marsi Beeson**	**A4H1353 - 08 28 24 1631**

APEX LABS

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

CHAIN OF CUSTODY

Lab # A4H1353 COC 1 of 2

Company: GeoEngineers | Project Mgr: Marsi Beeson | Project Name: Fred Meyer 126 UST Decomm. | Project #: 2831-115-00

Address: 5820 S Kelly Ave | Phone: | Email: mbeeson@geoengineers.com | PO #: —

Sampled by: Sam Russell

Site Location: State OR, County

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive
UST Excavation Water	8/20/24	1245	W	8		X	X		H			H						H			
UST-E-6		1330	S	3	X	H	H														
UST-E-3		1400																			
UST-E-4		1430																			
UST-E-1		1440																			
UST-E-5		1450																			
Pump 7		1510																			
Pump 6		1520																			
Pump 5		1530																			
Line 4	↓	1600	↓	↓	↓	↓	↓		↓			↓						↓			

Standard Turn Around Time (TAT) = 10 Business Days

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

SAMPLES ARE HELD FOR 30 DAYS

SPECIAL INSTRUCTIONS: Metals container for water sample field filtered using 0.45 um inline filter.
H = hold containers for possible follow-up analysis.

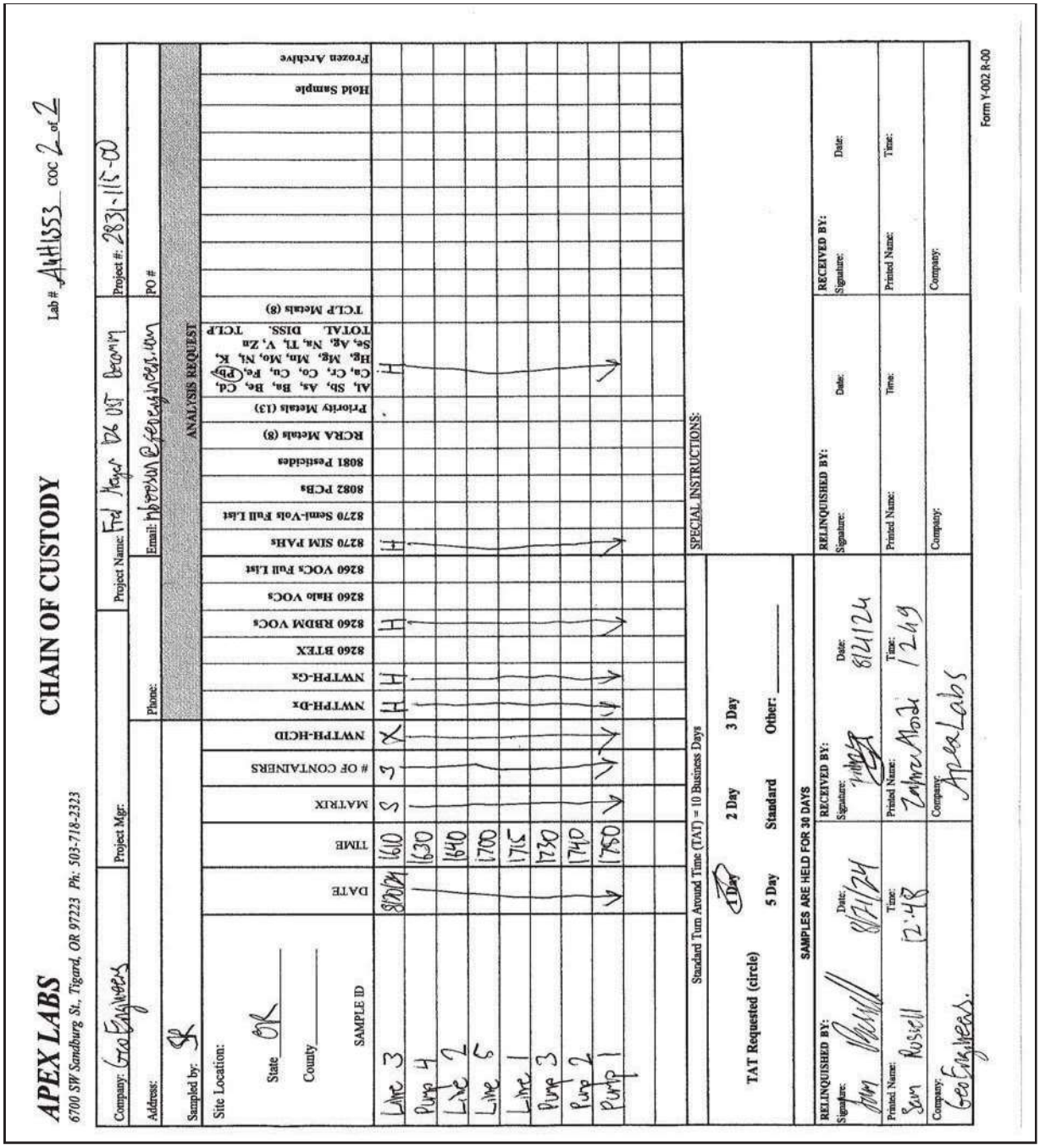
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 8/21/24	Signature: [signature] Date: 8/21/24	Signature: Date:	Signature: Date:
Printed Name: Sam Russell Time: 12:48	Printed Name: Zahra Ali Time: ~~1249~~ 1249	Printed Name: OB for ZA Time:	Printed Name: Time:
Company: GeoEngineers	Company: Apex Labs	Company: 8/21	Company:

Form Y-002 R-00

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

ANALYTICAL REPORT

GeoEngineers - Portland	Project: **Fred Meyer 126 UST Decomm.**	
5820 S Kelly Ave Unit B	Project Number: **2831-115-00**	**Report ID:**
Portland, OR 97239	Project Manager: **Marsi Beeson**	**A4H1353 - 08 28 24 1631**



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

CHAIN OF CUSTODY — Lab # A4H1353 COC 2 of 2

Company: GeoEngineers | Project Mgr: | Project Name: Fred Meyer 126 UST Decomm | Project #: 2831-115-00

Address: | Phone: | Email: mbeeson@geoengineers.com | PO #

Sampled by: SK

Site Location: State OR County

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, (Pb) Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive
Line 3	8/20/24	1610	S	3	X	H						H						H			
Pump 4		1630																			
Line 2		1640																			
Line 5		1700																			
Line 1		1715																			
Pump 3		1730																			
Pump 2		1740																			
Pump 1	↓	1750	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓					↓			

Standard Turn Around Time (TAT) = 10 Business Days

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

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature:	Date: 8/21/24	RECEIVED BY: Signature:	Date: 8/21/24	RELINQUISHED BY: Signature:	Date:	RECEIVED BY: Signature:	Date:
Printed Name: Sam Russell	Time: 12:48	Printed Name: Zahra Modi	Time: 1249	Printed Name:	Time:	Printed Name:	Time:
Company: GeoEngineers		Company: ApexLabs		Company:		Company:	

Form Y-002 R-00

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

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

ANALYTICAL REPORT

GeoEngineers - Portland	Project: **Fred Meyer 126 UST Decomm.**	
5820 S Kelly Ave Unit B	Project Number: **2831-115-00**	**Report ID:**
Portland, OR 97239	Project Manager: **Marsi Beeson**	**A4H1353 - 08 28 24 1631**

APEX LABS COOLER RECEIPT FORM

Client: GeoEngineers Element WO#: A4#1353

Project/Project #: Fred Meyer 126 UST #2831-115-00

Delivery Info:

Date/time received: 8/21/24 @ 1249 By: ZA

Delivered by: Apex__Client X ESS__FedEx__UPS__Radio__Morgan__SDS__Evergreen__Other__

From USDA Regulated Origin? Yes_____ No X

Cooler Inspection Date/time inspected: 8/21/24 @ 1249 By: ZA

Chain of Custody included? Yes X No_____

Signed/dated by client? Yes X No_____

Contains USDA Reg. Soils? Yes_____ No X Unsure (email RegSoils)_____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	2.2						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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

Green dots applied to out of temperature samples? Yes (No)

Out of temperature samples form initiated? Yes (No)

Sample Inspection: Date/time inspected: 8/21/24 @ 1317 By: ZA

All samples intact? Yes X No___ Comments:_____

Bottle labels/COCs agree? Yes ~~No~~ 8/21/24 No X Comments: Trip Blank is not listed in COC

½ MeOH for Pump 6 is smudged, matched by time/date.

COC/container discrepancies form initiated? Yes___ No ~~X~~

Containers/volumes received appropriate for analysis? Yes X No___ Comments:_____

Do VOA vials have visible headspace? Yes ~~X~~ 8/21/24 No X NA ~~X~~ ZA 8/21

Comments_____

Water samples: pH checked: Yes ~~X~~ No___NA___ pH appropriate? Yes ~~X~~ No___NA___ pH ID: A23172

Comments:_____

TB #3579

Labeled by: ZA Witness: Cooler Inspected by: ZA

Form Y-003 R-02

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

Appendix E

Report Limitations and Guidelines for Use

Appendix E

REPORT LIMITATIONS AND GUIDELINES FOR USE[1]

This appendix provides information to help you manage your risks with respect to the use of this report.

Read These Provisions Closely

It is important to recognize that the geoscience practices (geotechnical engineering, geology, and environmental science) rely on professional judgment and opinion to a greater extent than other engineering and natural science disciplines, where more precise and/or readily observable data may exist. To help clients better understand how this difference pertains to our services, GeoEngineers, Inc. (GeoEngineers) includes the following explanatory "limitations" provisions in its reports. Please confer with GeoEngineers if you need to know more how these "Report Limitations and Guidelines for Use" apply to your project or site.

Environmental Assessment Services Are Performed for Specific Purposes, Persons, and Projects

This report has been prepared for The Kroger Company and for the Project(s) specifically identified in the report. The information contained herein is not applicable to other sites or projects.

GeoEngineers structures its services to meet the specific needs of its clients. No party other than the party to whom this report is addressed may rely on the product of our services unless we agree to such reliance in advance and in writing. Within the limitations of the agreed scope of services for the Project, and its schedule and budget, our services have been executed in accordance with our Agreement with The Kroger Company dated July 26, 2024 and generally accepted environmental practices in this area at the time this report was prepared. We do not authorize, and will not be responsible for, the use of this report for any purposes or projects other than those identified in the report.

An Environmental Assessment Report is Based on a Unique Set of Project-Specific Factors

This report has been prepared for the Fred Meyer Fuel No. 126 located at 1001 Grants Pass Parkway, Grants Pass, Oregon. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, it is important not to rely on this report if it was:

- Not prepared for you,
- Not prepared for your project,
- Not prepared for the specific site explored, or
- Completed before important project changes were made.

[1] Developed based on material provided by GBA, GeoProfessional Business Association; www.geoprofessional.org.

If important changes are made after the date of this report, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

Reliance Conditions for Third Parties

Our report was prepared for the exclusive use of The Kroger Company. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm and The Kroger Company with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with The Kroger Company and generally accepted environmental practices in this area at the time this report was prepared.

Environmental Regulations are Always Evolving

Some substances may be present in the site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the subject site, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

Uncertainty May Remain Even After This Environmental Report is Completed

No environmental service can wholly eliminate uncertainty regarding the potential for contamination in connection with a property. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from widely-spaced sampling locations. It is always possible that contamination exists in areas that were not explored, sampled or analyzed.

Subsurface Conditions Can Change

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

Most Environmental Findings are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

Do Not Redraw the Exploration Logs

Environmental scientists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in an environmental report should

never be redrawn for inclusion in other design drawings. Only photographic or electronic reproductions are acceptable but recognize that separating logs from the report can elevate risk.

Geotechnical, Geologic and Geoenvironmental Reports Should Not be Interchanged

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. Environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK PROGRAM

30-DAY NOTICE OF INTENT TO DECOMMISSION USTS OR COMPLETE A CHANGE-IN-SERVICE

1. FACILITY (Location of Tanks) (*Please Print*)

Name: Fred Meyer Grants Pass Shopping Cente
Address: 1101 NE Redwood Hwy
Grants Pass, OR 97526
Phone:

2. PERMITTEE (*Please Print*)

Name: Daniel Hermann, Fred Meyer Stores, Inc
Address: P.O. Box 42121
Portland, Oregon 97242
Phone: 503-797-3512, mobile 360-608-1467

DEQ General Permit Operating Certificate Number: 17-8883-2024-OPER

Work To Be Performed By: Meng Hannan Construction License # 2435
(Permittee, Tank Owner, Property Owner or Licensed Service Provider) (Service Provider)

Phone: 503-761-5290 Mobile Phone: 503-519-4825

THIS FORM MUST BE SUBMITTED BY UST PERMITTEE 30 DAYS BEFORE START OF WORK

YOU MUST CONTACT YOUR LOCAL DEQ REGIONAL OFFICE 3-DAYS BEFORE STARTING ANY DECOMMISSIONING WORK. (Phone numbers are listed on Page 2)

Will tank removal or potential cleanup affect adjacent property or Right-of-Way property? Yes ☐ No ☑

Date decommissioning is scheduled to begin: 8/21/24 will request waiver to begin work August 1st

			PRODUCT: GASOLINE, DIESEL, USED OIL, OTHER?		CLOSURE OR CHANGE-IN- SERVICE?			TANK TO BE REPLACED?	
TANK ID #	DEQ-UST PERMIT #	TANK SIZE IN GALLONS	PRESENT	NEW	TANK REMOVAL	CLOSURE IN PLACE♦	CHANGE IN SERVICE♦	YES*	NO
3	BFGKD	8k	Gasoline		☑	☐	☐	☐	☑
2	BFGKC	20k	Gasoline		☑	☐	☐	☐	☑
4	BFGKE	8k	Diesel		☑	☐	☐	☐	☑
					☐	☐	☐	☐	☐
1	ABHCH 1k DSL: ZERO CHANGE this tank				☐	☐	☐	☐	☐

* If decommissioned tank(s) are to be replaced by new underground storage tanks you must submit a *General Permit Registration Form to Install and Operate USTs* for the new tanks **30 days** before installing them.

♦ 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 an unregulated substance or (3) tank contains a regulated substance other than petroleum.

Permittee: Daniel Hermann
(***Please Print***)

Permittee: Daniel Hermann Date: 7/22/24
(***Signature***)

State of Oregon
Department of
Environmental
Quality

CERTIFICATE TO OPERATE

UNDERGROUND STORAGE TANKS

REGISTRATION CERTIFICATE NUMBER

17-8883-2024-OPER

FACILITY NAME AND LOCATION	PERMITTEE
FRED MEYER - GRANTS PASS SHOPPING CENTER 1101 NE REDWOOD HWY GRANTS PASS, OR 97526	Daniel Hermann Fred Meyer Stores, Inc. PO Box 42121 Portland, OR 97242

TANK PERMIT:	TANK ID NO:	TANK SIZE:	TANK CONTENTS:
ABHCH	1	1,000 GALLONS	DIESEL
BFGKD	3	8,000 GALLONS	GASOLINE
BFGKC	2	20,000 GALLONS	GASOLINE
BFGKE	4	8,000 GALLONS	DIESEL

CERTIFICATE EXPIRES: June 30, 2025

ISSUE DATE: 06/03/2024

Mark Drouin

Mark Drouin
Underground Storage Tank Program

Post this certificate where it is visible to the person delivering fuel.

Rev. 20150603

THIS NOTICE AND THE 3-DAY TELEPHONE NOTICE ARE REQUIRED prior to starting decommissioning work on a regulated underground storage tank (UST). Decommissioning work includes but is not limited to excavation and removal of the tank and its appurtenances, removal of underground piping (product, vent and vapor recovery piping), soil sampling, and groundwater sampling. (Decommissioning USTs or completing a change-in-service must be done in accordance with the conditions and requirements of OAR 340-150-0166, the general permit to decommission USTs).

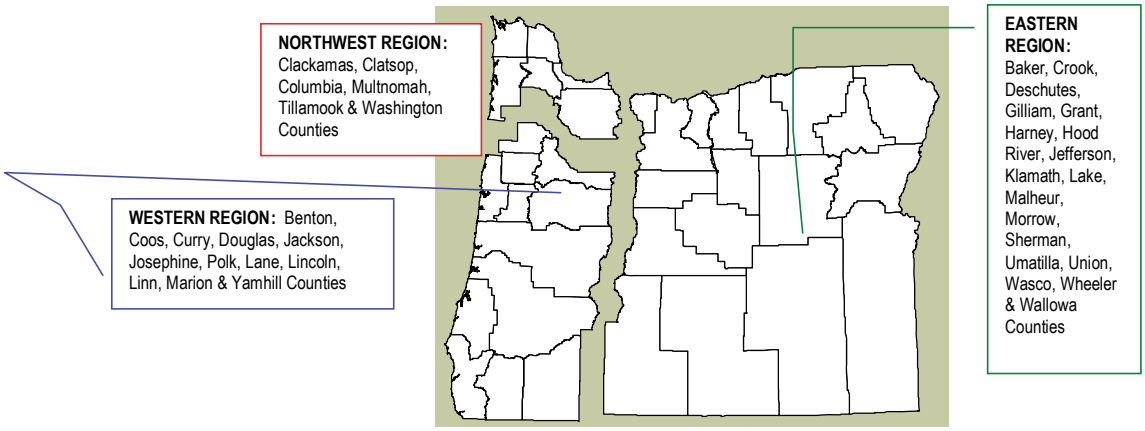
THIS NOTICE IS NOT REQUIRED for decommissioning unregulated tanks. To determine whether an underground tank is regulated please refer to OAR 340-150-0008 for UST's that are excluded or deferred from regulation, and OAR 340-150-0010 (82) for the definition of a UST, or contact DEQ. (Examples are heating oil, and most residential or farm motor fuel tanks under 1100 gallons.)

ALL PAST DUE UST GENERAL PERMIT ANNUAL COMPLIANCE FEES MUST BE PAID before this decommissioning notice will be accepted by DEQ.

MAKE SURE THIS FORM IS COMPLETE WITH ALL ATTACHMENTS as a notice that is incomplete will not be accepted.

RETURN COMPLETED AND SIGNED FORM TO THE DEQ REGIONAL OFFICE FOR YOUR AREA (Addresses are listed below).

3-DAY NOTICE: Contact your local DEQ Regional Office 3-days before starting work. (Phone numbers are listed below).



EASTERN REGION / BEND 475 NE BELLEVUE, SUITE 110 BEND, OR 97701 Phone: 541-388-6146 Fax: 541-388-8283	WESTERN REGION / COOS BAY 381 N SECOND STREET COOS BAY 97420 Phone: 541-269-2721 Fax: 541-269-7984	WESTERN REGION / MEDFORD 221 STEWART AVE., SUITE 201 MEDFORD, OR 97501 Phone: 541-776-6010 Fax: 541-776-6262
NORTHWEST REGION 700 NE MULTNOMAH ST. PORTLAND, OR 97232 Phone: 503-229-5263 Fax: 503-229-6945	WESTERN REGION / EUGENE 165 EAST 7TH AVE., SUITE 100 EUGENE, OR 97401 Phone: 541-686-7838 Fax: 541-686-7551	

For information or assistance with this form call (503) 229-6652 or the UST HELPLINE: 1-800-742-7878 (Toll Free in Oregon).

Program information, registration forms, administrative rules and other publications can also be found on our Homepage at:

http://www.deq.state.or.us/lq/tanks/ust/index.htm

Oregon
Tina Kotek, Governor

Department of Environmental Quality
Northwest Region
700 NE Multnomah Street, Suite 600
Portland, OR 97232
(503) 229-5263
FAX (503) 229-6945
TTY 711

October 8, 2024

Daniel Hermann
Fred Meyer Stores, Inc
PO Box 42121
Portland, OR 97242

RE: UST Decommissioning Status
1101 NE Redwood Hwy
DEQ UST Facility ID No. 08883

Dear Daniel Hermann:

The Department of Environmental Quality (DEQ) has received and reviewed underground storage tank (UST) documents for closure of three decommissioned USTs at facility #08883, located at 1101 NE Redwood Hwy in Grant's Pass. The purpose of this letter is to document UST closure as required by Oregon Administrative Rule (OAR) 340-150-0168(10).

Based on DEQ review of the documents received, the work appears to have met the requirements of OAR 340-150-0168 for decommissioning by permanent closure. DEQ has changed the status of the tanks from active to closed, with a decommissioning date of September 5, 2024. DEQ file and database records show tank permits BFGKC, BFGKD, and BFGKE as inactive and decommissioned. The documents received are on file at the DEQ Headquarters Office in Portland.

This letter is in no way related to any UST cleanup or other DEQ programs and is not intended to be a no further action letter for those purposes. The DEQ's determination will not be applicable if new or undisclosed facts show that the UST closure does not comply with the referenced rules.

As the Permittee you are required to maintain records of permanent closure, including the site assessment report and associated documents for three years after the permanent closure checklist and report have been reviewed by the DEQ. If the UST facility is sold within this time period, you must provide these records to the new property owner.

We appreciate your efforts to comply with the prescribed decommissioning rules for underground storage tanks. Should you have any questions, please feel free to contact me at 503-360-4287.

Sincerely,

Dave Pardue

Dave Pardue
UST Program Coordinator