



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: _____

FACILITY NAME: _____

FACILITY ADDRESS: _____

PERMITTEE PHONE: _____ DATE: _____

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 #: _____ Construction Contractors Board License #: _____

Name: _____

Telephone: _____

DEQ Decommissioning Supervisor's License #: _____

Name: _____

Telephone: _____

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

Name: _____

Telephone: _____

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

Name: _____

Telephone: _____

C. DATES:

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

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

DEQ Person Notified: _____

Date Work Started: _____ Date Work Completed: _____

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

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

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

F. DISPOSAL INFORMATION:

TANK ID #	TANK AND PIPING DISPOSAL METHOD				DISPOSAL LOCATION OF TANK CONTENTS	
	SCRAP	LAND- FILL	OTHER	IDENTIFY LOCATION & PROPERTY OWNER	LIQUIDS	SLUDGES

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)

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.)

See attached sample location sketch map and technical memorandum from Maul Foster & Alongi explaining the samples collected.

I. SAFETY EQUIPMENT ON JOB SITE:

Fire Extinguisher: Type/Size: _____ Recharge Date: _____

Combustible Gas Detector: Model: _____ Calibration Date: _____

Oxygen Analyzer: Model: _____ Calibration Date: _____

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: _____ Meter reading: _____				
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)?				

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: _____
(Please Print)

Permittee or Tank Owner: _____ Date: _____
(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: _____
(Please Print)

Licensed Supervisor: _____ Date: _____
(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: _____
Licensed Service Provider (Please Print)

Executive Officer: _____ Date: _____
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
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

WESTERN REGION / MEDFORD
221 STEWART AVE., SUITE 201
MEDFORD, OR 97501
Phone: 541-776-6010
Fax: 541-776-6262



Technical Memorandum

To: Oregon Department of Environmental Quality (DEQ) Date: April 17, 2024
From: Gina Baragona, David Weatherby, RG, MFA Project No.: M1964.08.001
Re: Sample Locations for 100 N Main Street, Boardman, Oregon

Introduction

On April 4, 2024, Maul Foster & Alongi (MFA) collected soil samples in support of the permanent removal of five underground storage tanks (USTs), fuel lines, and dispensers at the commercial property located at 100 N Main Street, Boardman, Oregon, also known as the Hattenhauer Boardman Shell, DEQ ID No. 5066. The UST, fuel line, and dispenser removal activities were conducted by Anderson Environmental Contracting, LLC. This memorandum describes the samples collected and analytical results.

Field Observations

Five USTs were removed from two excavations as shown on the attached sketch map, as well as five fuel dispensers and associated fuel lines. MFA examined soils in the excavations and excavated soils in a soil stockpile, as well as soils in the dispenser and fuel line excavations for field indicators of contamination. No petroleum-like odors, staining, or sheen were observed. Representative soil samples from the excavations, from under fuel lines, from under the dispensers, and from the soil stockpile were analyzed for organic vapors with a photoionization detector. No elevated photoionization detector readings were noted (readings ranged from 0.1 to 0.2 parts per million). In-situ soils in the excavation bottoms were dry and groundwater never entered the excavations.

Sample Collection

Excavation 1: USTs 1, 2, 3, and 4, and Fuel Line 1

The following soil samples were collected:

- Samples EX1-S-NE-15, EX1-S-NW-15, EX1-S-SE-15, EX1-S-SW-15, and EX1-S-CB-15 were collected from the excavation bottom at a depth of 15 feet below ground surface (bgs).
- Sample FL1-S-1.5 was collected from the fuel line 1 excavation at a depth of 1.5 feet bgs

Excavation 2: UST 5, and Fuel Line 2

The following soil samples were collected:

- Samples EX2-S-SE-15 and EX2-S-NW-15 were collected from the excavation bottom at a depth of 15 feet bgs.
- Sample FL2-S-1.5 was collected from the fuel line 2 excavation at a depth of 1.5 feet bgs.

Stockpile Samples

Five grab samples, designated A through E on the sketch map were collected from the stockpile and composited at the lab as sample SP-S-1.

Sample Analysis and Results

The excavation, fuel line, and stockpile samples were submitted to Apex Laboratories, LLC (Apex) in Tigard, Oregon under chain of custody for analysis.

The excavation and fuel line samples were analyzed by the hydrocarbon identification screen by NWTPH-HCID. The samples results are provided in the attached laboratory report for Apex work order A4D0964. The NWTPH-HCID results were non-detect for all samples except samples EX1-S-SW-15 and FL2-S-1.5, which had detections for diesel. These two samples were subsequently analyzed for diesel- and oil-range petroleum hydrocarbons by NWTPH-Dx. Diesel was detected in samples EX1-S-SW-15 and FL2-S-1.5 at concentrations of 76.0 and 152 milligrams per kilogram (mg/kg) respectively, which are much less than the most conservative DEQ risk-based concentration of 1,100 mg/kg for residential soil exposure. These concentrations are also much less than the DEQ Clean Fill Criterion of 1,100 mg/kg for diesel, indicating the soil remaining in the excavations at these two sample locations is the same as clean fill.

The stockpile sample was analyzed for the following:

- Gasoline-range petroleum hydrocarbons by NWTPH-Gx.
- Diesel- and oil-range petroleum hydrocarbons by NWTPH-Dx.
- Benzene, toluene, ethylbenzene, xylene, and naphthalene by EPA Method EPA 8260D.
- Toxicity Characteristic Leaching Procedure for benzene by EPA Method 1311/8260D.

The samples results are provided in the attached laboratory report for Apex work order A4D00964 and were non-detect for all of the analytical methods listed above. Based on these results, the stockpiled soil was used to backfill the excavations.

Attachments

Limitations

Sketch Map

Analytical Laboratory Report

Limitations

The services undertaken in completing this technical memorandum were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This technical memorandum is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this technical memorandum apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this technical memorandum.



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Tuesday, April 16, 2024

David Weatherby
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A4D0964 - AEC-Boardman - M1964.06.001

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 A4D0964, which was received by the laboratory on 4/5/2024 at 10:27:00AM.

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

Philip Nerenberg

Philip Nerenberg, Lab Director

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.

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Maul Foster & Alongi, INC.**3140 NE Broadway Street
Portland, OR 97232Project: **AEC-Boardman**Project Number: **M1964.06.001**Project Manager: **David Weatherby****Report ID:****A4D0964 - 04 16 24 1843****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-S-A	A4D0964-01	Soil	04/04/24 13:45	04/05/24 10:27
SP-S-B	A4D0964-02	Soil	04/04/24 13:50	04/05/24 10:27
SP-S-C	A4D0964-03	Soil	04/04/24 13:55	04/05/24 10:27
SP-S-D	A4D0964-04	Soil	04/04/24 13:58	04/05/24 10:27
SP-S-E	A4D0964-05	Soil	04/04/24 14:00	04/05/24 10:27
SP-S-A-E	A4D0964-06	Soil	04/04/24 14:00	04/05/24 10:27
SP-S-1	A4D0964-07	Soil	04/04/24 13:45	04/05/24 10:27
EX1-S-NE-15	A4D0964-08	Soil	04/04/24 13:20	04/05/24 10:27
EX1-S-NW-15	A4D0964-09	Soil	04/04/24 13:25	04/05/24 10:27
EX1-S-SE-15	A4D0964-10	Soil	04/04/24 13:27	04/05/24 10:27
EX1-S-SW-15	A4D0964-11	Soil	04/04/24 13:30	04/05/24 10:27
FL2-S-1.5	A4D0964-12	Soil	04/04/24 13:05	04/05/24 10:27
EX2-S-SE-15	A4D0964-13	Soil	04/04/24 13:01	04/05/24 10:27
EX2-S-NW-15	A4D0964-14	Soil	04/04/24 13:03	04/05/24 10:27
EX1-S-CB-15	A4D0964-15	Soil	04/04/24 13:35	04/05/24 10:27
FL1-S-1.5	A4D0964-16	Soil	04/04/24 13:05	04/05/24 10:27

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Maul Foster & Alongi, INC.3140 NE Broadway Street
Portland, OR 97232Project: AEC-Boardman

Project Number: M1964.06.001

Project Manager: David Weatherby

Report ID:

A4D0964 - 04 16 24 1843

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
EX1-S-NE-15 (A4D0964-08)		Matrix: Soil			Batch: 24D0274			
Gasoline Range Organics	ND	---	19.0	mg/kg dry	1	04/09/24 11:30	NWTPH-HCID	
Diesel Range Organics	ND	---	47.6	mg/kg dry	1	04/09/24 11:30	NWTPH-HCID	
Oil Range Organics	ND	---	95.1	mg/kg dry	1	04/09/24 11:30	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	74 %	Limits: 50-150 %	1	04/09/24 11:30	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			89 %	50-150 %	1	04/09/24 11:30	NWTPH-HCID	
EX1-S-NW-15 (A4D0964-09)		Matrix: Soil			Batch: 24D0274			
Gasoline Range Organics	ND	---	18.1	mg/kg dry	1	04/09/24 11:54	NWTPH-HCID	
Diesel Range Organics	ND	---	45.2	mg/kg dry	1	04/09/24 11:54	NWTPH-HCID	
Oil Range Organics	ND	---	90.4	mg/kg dry	1	04/09/24 11:54	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	68 %	Limits: 50-150 %	1	04/09/24 11:54	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			83 %	50-150 %	1	04/09/24 11:54	NWTPH-HCID	
EX1-S-SE-15 (A4D0964-10)		Matrix: Soil			Batch: 24D0274			
Gasoline Range Organics	ND	---	19.2	mg/kg dry	1	04/09/24 12:41	NWTPH-HCID	
Diesel Range Organics	ND	---	47.9	mg/kg dry	1	04/09/24 12:41	NWTPH-HCID	
Oil Range Organics	ND	---	95.9	mg/kg dry	1	04/09/24 12:41	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	65 %	Limits: 50-150 %	1	04/09/24 12:41	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			78 %	50-150 %	1	04/09/24 12:41	NWTPH-HCID	
EX1-S-SW-15 (A4D0964-11)		Matrix: Soil			Batch: 24D0274			
Gasoline Range Organics	ND	---	18.9	mg/kg dry	1	04/09/24 15:04	NWTPH-HCID	
Diesel Range Organics	DET	---	47.3	mg/kg dry	1	04/09/24 15:04	NWTPH-HCID	
Oil Range Organics	ND	---	94.7	mg/kg dry	1	04/09/24 15:04	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	63 %	Limits: 50-150 %	1	04/09/24 15:04	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			77 %	50-150 %	1	04/09/24 15:04	NWTPH-HCID	
FL2-S-1.5 (A4D0964-12)		Matrix: Soil			Batch: 24D0274			
Gasoline Range Organics	ND	---	18.5	mg/kg dry	1	04/09/24 12:18	NWTPH-HCID	
Diesel Range Organics	DET	---	46.2	mg/kg dry	1	04/09/24 12:18	NWTPH-HCID	
Oil Range Organics	ND	---	92.4	mg/kg dry	1	04/09/24 12:18	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	83 %	Limits: 50-150 %	1	04/09/24 12:18	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			99 %	50-150 %	1	04/09/24 12:18	NWTPH-HCID	

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: AEC-Boardman

Project Number: M1964.06.001

Project Manager: David Weatherby

Report ID:

A4D0964 - 04 16 24 1843

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
EX2-S-SE-15 (A4D0964-13)		Matrix: Soil			Batch: 24D0274			
Gasoline Range Organics	ND	---	18.0	mg/kg dry	1	04/09/24 13:05	NWTPH-HCID	
Diesel Range Organics	ND	---	45.1	mg/kg dry	1	04/09/24 13:05	NWTPH-HCID	
Oil Range Organics	ND	---	90.1	mg/kg dry	1	04/09/24 13:05	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery: 65 %		Limits: 50-150 %	1	04/09/24 13:05	NWTPH-HCID	
4-Bromofluorobenzene (Surr)		77 %		50-150 %	1	04/09/24 13:05	NWTPH-HCID	
EX2-S-NW-15 (A4D0964-14)		Matrix: Soil			Batch: 24D0274			
Gasoline Range Organics	ND	---	18.7	mg/kg dry	1	04/09/24 14:40	NWTPH-HCID	
Diesel Range Organics	ND	---	46.9	mg/kg dry	1	04/09/24 14:40	NWTPH-HCID	
Oil Range Organics	ND	---	93.7	mg/kg dry	1	04/09/24 14:40	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery: 66 %		Limits: 50-150 %	1	04/09/24 14:40	NWTPH-HCID	
4-Bromofluorobenzene (Surr)		77 %		50-150 %	1	04/09/24 14:40	NWTPH-HCID	
EX1-S-CB-15 (A4D0964-15)		Matrix: Soil			Batch: 24D0274			
Gasoline Range Organics	ND	---	18.1	mg/kg dry	1	04/09/24 13:29	NWTPH-HCID	
Diesel Range Organics	ND	---	45.4	mg/kg dry	1	04/09/24 13:29	NWTPH-HCID	
Oil Range Organics	ND	---	90.7	mg/kg dry	1	04/09/24 13:29	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery: 68 %		Limits: 50-150 %	1	04/09/24 13:29	NWTPH-HCID	
4-Bromofluorobenzene (Surr)		83 %		50-150 %	1	04/09/24 13:29	NWTPH-HCID	
FL1-S-1.5 (A4D0964-16)		Matrix: Soil			Batch: 24D0274			
Gasoline Range Organics	ND	---	19.2	mg/kg dry	1	04/09/24 13:53	NWTPH-HCID	
Diesel Range Organics	ND	---	48.0	mg/kg dry	1	04/09/24 13:53	NWTPH-HCID	
Oil Range Organics	ND	---	96.1	mg/kg dry	1	04/09/24 13:53	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery: 64 %		Limits: 50-150 %	1	04/09/24 13:53	NWTPH-HCID	
4-Bromofluorobenzene (Surr)		71 %		50-150 %	1	04/09/24 13:53	NWTPH-HCID	

Apex Laboratories

Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

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

Maul Foster & Alongi, INC.

3140 NE Broadway Street
Portland, OR 97232

Project: **AEC-Boardman**

Project Number: **M1964.06.001**

Project Manager: **David Weatherby**

Report ID:

A4D0964 - 04 16 24 1843

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
SP-S-1 (A4D0964-07)				Matrix: Soil		Batch: 24D0300		COMP
Diesel	ND	---	18.4	mg/kg dry	1	04/08/24 21:48	NWTPH-Dx	
Oil	ND	---	36.7	mg/kg dry	1	04/08/24 21:48	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 92 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>04/08/24 21:48</i>	<i>NWTPH-Dx</i>	
EX1-S-SW-15 (A4D0964-11RE1)				Matrix: Soil		Batch: 24D0465		
Diesel	76.0	---	18.6	mg/kg dry	1	04/11/24 19:33	NWTPH-Dx	
Oil	ND	---	37.1	mg/kg dry	1	04/11/24 19:33	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 92 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>04/11/24 19:33</i>	<i>NWTPH-Dx</i>	
FL2-S-1.5 (A4D0964-12RE1)				Matrix: Soil		Batch: 24D0465		
Diesel	152	---	17.6	mg/kg dry	1	04/11/24 20:34	NWTPH-Dx	
Oil	ND	---	35.3	mg/kg dry	1	04/11/24 20:34	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 93 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>04/11/24 20:34</i>	<i>NWTPH-Dx</i>	

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062Maul Foster & Alongi, INC.3140 NE Broadway Street
Portland, OR 97232Project: AEC-Boardman

Project Number: M1964.06.001

Project Manager: David Weatherby

Report ID:

A4D0964 - 04 16 24 1843

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
SP-S-A-E (A4D0964-06RE1)				Matrix: Soil		Batch: 24D0282		
Gasoline Range Organics	ND	---	4.38	mg/kg dry	50	04/08/24 18:23	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	104 %	Limits: 50-150 %	1	04/08/24 18:23	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			108 %	50-150 %	1	04/08/24 18:23	NWTPH-Gx (MS)	

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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SP-S-A-E (A4D0964-06RE1)		Matrix: Soil			Batch: 24D0282			
Benzene	ND	---	8.77	ug/kg dry	50	04/08/24 18:23	5035A/8260D	
Toluene	ND	---	43.8	ug/kg dry	50	04/08/24 18:23	5035A/8260D	
Ethylbenzene	ND	---	21.9	ug/kg dry	50	04/08/24 18:23	5035A/8260D	
Xylenes, total	ND	---	65.7	ug/kg dry	50	04/08/24 18:23	5035A/8260D	
Naphthalene	ND	---	87.7	ug/kg dry	50	04/08/24 18:23	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>04/08/24 18:23</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/08/24 18:23</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>	<i>1</i>	<i>04/08/24 18:23</i>	<i>5035A/8260D</i>	

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ANALYTICAL SAMPLE RESULTS

TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SP-S-1 (A4D0964-07)				Matrix: Soil		Batch: 24D0339		COMP
Benzene	ND	---	0.0100	mg/L	50	04/09/24 11:23	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	110 %	<i>Limits:</i>	80-120 %	1	04/09/24 11:23	1311/8260D
<i>Toluene-d8 (Surr)</i>			101 %		80-120 %	1	04/09/24 11:23	1311/8260D
<i>4-Bromofluorobenzene (Surr)</i>			105 %		80-120 %	1	04/09/24 11:23	1311/8260D

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SP-S-A-E (A4D0964-06)				Matrix: Soil		Batch: 24D0384		
% Solids	94.4	---	1.00	%	1	04/10/24 10:36	EPA 8000D	
SP-S-1 (A4D0964-07)				Matrix: Soil		Batch: 24D0283		COMP
% Solids	94.4	---	1.00	%	1	04/09/24 06:47	EPA 8000D	
EX1-S-NE-15 (A4D0964-08)				Matrix: Soil		Batch: 24D0283		
% Solids	92.3	---	1.00	%	1	04/09/24 06:47	EPA 8000D	
EX1-S-NW-15 (A4D0964-09)				Matrix: Soil		Batch: 24D0283		
% Solids	93.6	---	1.00	%	1	04/09/24 06:47	EPA 8000D	
EX1-S-SE-15 (A4D0964-10)				Matrix: Soil		Batch: 24D0283		
% Solids	93.0	---	1.00	%	1	04/09/24 06:47	EPA 8000D	
EX1-S-SW-15 (A4D0964-11)				Matrix: Soil		Batch: 24D0283		
% Solids	94.0	---	1.00	%	1	04/09/24 06:47	EPA 8000D	
FL2-S-1.5 (A4D0964-12)				Matrix: Soil		Batch: 24D0283		
% Solids	96.8	---	1.00	%	1	04/09/24 06:47	EPA 8000D	
EX2-S-SE-15 (A4D0964-13)				Matrix: Soil		Batch: 24D0283		
% Solids	93.0	---	1.00	%	1	04/09/24 06:47	EPA 8000D	
EX2-S-NW-15 (A4D0964-14)				Matrix: Soil		Batch: 24D0283		
% Solids	94.3	---	1.00	%	1	04/09/24 06:47	EPA 8000D	
EX1-S-CB-15 (A4D0964-15)				Matrix: Soil		Batch: 24D0283		
% Solids	94.7	---	1.00	%	1	04/09/24 06:47	EPA 8000D	
FL1-S-1.5 (A4D0964-16)				Matrix: Soil		Batch: 24D0283		
% Solids	94.0	---	1.00	%	1	04/09/24 06:47	EPA 8000D	

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Project Number: M1964.06.001

Project Manager: David Weatherby

Report ID:

A4D0964 - 04 16 24 1843

ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311 (ZHE)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SP-S-1 (A4D0964-07)				Matrix: Soil		Batch: 24D0316		COMP
TCLP ZHE Extraction	PREP	---		N/A	1	04/08/24 14:40	EPA 1311 ZHE	

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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 24D0274 - EPA 3546 (Fuels)						Soil						
Blank (24D0274-BLK1)			Prepared: 04/08/24 04:57 Analyzed: 04/09/24 09:09									
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: 73 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		91 %		50-150 %		"						
Duplicate (24D0274-DUP1)			Prepared: 04/08/24 04:57 Analyzed: 04/09/24 09:56									
QC Source Sample: Non-SDG (A4D0957-01)												
Gasoline Range Organics	ND	---	20.8	mg/kg dry	1	---	ND	---	---	---	30%	
Diesel Range Organics	ND	---	52.1	mg/kg dry	1	---	ND	---	---	---	30%	
Oil Range Organics	ND	---	104	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 62 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		78 %		50-150 %		"						
Duplicate (24D0274-DUP2)			Prepared: 04/08/24 04:57 Analyzed: 04/09/24 14:16									
QC Source Sample: FL1-S-1.5 (A4D0964-16)												
NWTPH-HCID												
Gasoline Range Organics	ND	---	18.3	mg/kg dry	1	---	ND	---	---	---	30%	
Diesel Range Organics	ND	---	45.8	mg/kg dry	1	---	ND	---	---	---	30%	
Oil Range Organics	ND	---	91.5	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 70 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		78 %		50-150 %		"						

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3140 NE Broadway Street

Portland, OR 97232

Project: **AEC-Boardman**Project Number: **M1964.06.001**Project Manager: **David Weatherby****Report ID:****A4D0964 - 04 16 24 1843**

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 24D0300 - EPA 3546 (Fuels)						Soil						
Blank (24D0300-BLK1)			Prepared: 04/08/24 11:42		Analyzed: 04/08/24 21:01							
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 94 %		Limits: 50-150 %		Dilution: 1x						
LCS (24D0300-BS1)			Prepared: 04/08/24 11:42		Analyzed: 04/08/24 21:24							
NWTPH-Dx												
Diesel	118	---	20.0	mg/kg wet	1	125	---	94	38-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 102 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (24D0300-DUP1)			Prepared: 04/08/24 11:42		Analyzed: 04/08/24 22:11							COMP
QC Source Sample: SP-S-1 (A4D0964-07)												
NWTPH-Dx												
Diesel	ND	---	18.0	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	36.1	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 100 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (24D0300-DUP2)			Prepared: 04/08/24 18:14		Analyzed: 04/09/24 05:37							
QC Source Sample: Non-SDG (A4D1032-02)												
Diesel	ND	---	19.1	mg/kg dry	1	---	ND	---	---	---	30%	Q-37
Oil	ND	---	38.3	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 82 %		Limits: 50-150 %		Dilution: 1x						

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Portland, OR 97232Project: **AEC-Boardman**Project Number: **M1964.06.001**Project Manager: **David Weatherby****Report ID:****A4D0964 - 04 16 24 1843**

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 24D0427 - EPA 3546 (Fuels)						Soil						
Blank (24D0427-BLK1)			Prepared: 04/10/24 16:49		Analyzed: 04/11/24 00:45							
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %		Dilution: 1x						
LCS (24D0427-BS1)			Prepared: 04/10/24 16:49		Analyzed: 04/11/24 01:09							
NWTPH-Dx												
Diesel	115	---	20.0	mg/kg wet	1	125	---	92	38-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (24D0427-DUP1)			Prepared: 04/10/24 16:49		Analyzed: 04/11/24 03:30							X
QC Source Sample: Non-SDG (A4D1117-01)												
Diesel	148	---	23.7	mg/kg dry	1	---	81.7	---	---	58	30%	Q-05
Oil	ND	---	47.3	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 79 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (24D0427-DUP2)			Prepared: 04/10/24 17:40		Analyzed: 04/11/24 01:09							
QC Source Sample: Non-SDG (A4D1124-02)												
Diesel	15600	---	970	mg/kg dry	40	---	12400	---	---	23	30%	
Oil	ND	---	1940	mg/kg dry	40	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: %		Limits: 50-150 %		Dilution: 40x					S-01	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24D0465 - EPA 3546 (Fuels)						Soil						
Blank (24D0465-BLK1)			Prepared: 04/11/24 15:26 Analyzed: 04/11/24 18:52									
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
LCS (24D0465-BS1)			Prepared: 04/11/24 15:26 Analyzed: 04/11/24 19:13									
NWTPH-Dx												
Diesel	107	---	20.0	mg/kg wet	1	125	---	86	38-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 99 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (24D0465-DUP1)			Prepared: 04/11/24 15:26 Analyzed: 04/11/24 19:53									
QC Source Sample: EX1-S-SW-15 (A4D0964-11RE1)												
NWTPH-Dx												
Diesel	63.7	---	18.0	mg/kg dry	1	---	76.0	---	---	18	30%	
Oil	ND	---	36.0	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (24D0465-DUP2)			Prepared: 04/11/24 16:26 Analyzed: 04/12/24 06:03									
QC Source Sample: Non-SDG (A4D1157-05)												
Diesel	ND	---	20.2	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	40.4	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						

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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 24D0231 - EPA 5035A						Soil						
Blank (24D0231-BLK1)			Prepared: 04/05/24 08:07 Analyzed: 04/05/24 11:03									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	103 %	Limits:	50-150 %	Dilution: 1x						
1,4-Difluorobenzene (Sur)			105 %		50-150 %	"						
LCS (24D0231-BS2)			Prepared: 04/05/24 08:07 Analyzed: 04/05/24 10:37									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	26.4	---	5.00	mg/kg wet	50	25.0	---	106	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	100 %	Limits:	50-150 %	Dilution: 1x						
1,4-Difluorobenzene (Sur)			103 %		50-150 %	"						
Duplicate (24D0231-DUP1)			Prepared: 04/02/24 10:00 Analyzed: 04/05/24 15:45									
<u>QC Source Sample: Non-SDG (A4D0849-02)</u>												
Gasoline Range Organics	418	---	12.0	mg/kg dry	100	---	445	---	---	6	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	109 %	Limits:	50-150 %	Dilution: 1x						
1,4-Difluorobenzene (Sur)			96 %		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 24D0282 - EPA 5035A						Soil						
Blank (24D0282-BLK1)			Prepared: 04/08/24 09:05 Analyzed: 04/08/24 11:07									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		100 %		50-150 %		"						
LCS (24D0282-BS2)			Prepared: 04/08/24 09:05 Analyzed: 04/08/24 10:42									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	24.2	---	5.00	mg/kg wet	50	25.0	---	97	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		99 %		50-150 %		"						
Duplicate (24D0282-DUP1)			Prepared: 04/04/24 12:00 Analyzed: 04/08/24 20:57									
<u>QC Source Sample: Non-SDG (A4D0972-01)</u>												
Gasoline Range Organics	4670	---	486	mg/kg dry	5000	---	4540	---	---	3	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 99 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		97 %		50-150 %		"						

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503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: **AEC-Boardman**Project Number: **M1964.06.001**Project Manager: **David Weatherby****Report ID:****A4D0964 - 04 16 24 1843**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24D0231 - EPA 5035A						Soil						
Blank (24D0231-BLK1)			Prepared: 04/05/24 08:07 Analyzed: 04/05/24 11:03									
5035A/8260D												
Benzene	ND	---	10.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	75.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	100	ug/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 94 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		79-120 %		"						
LCS (24D0231-BS1)			Prepared: 04/05/24 08:07 Analyzed: 04/05/24 10:11									
5035A/8260D												
Benzene	890	---	10.0	ug/kg wet	50	1000	---	89	80-120%	---	---	
Toluene	956	---	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Ethylbenzene	955	---	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Xylenes, total	2850	---	75.0	ug/kg wet	50	3000	---	95	80-120%	---	---	
Naphthalene	890	---	100	ug/kg wet	50	1000	---	89	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		79-120 %		"						
Duplicate (24D0231-DUP1)			Prepared: 04/02/24 10:00 Analyzed: 04/05/24 15:45									
QC Source Sample: Non-SDG (A4D0849-02)												
Benzene	ND	---	24.0	ug/kg dry	100	---	ND	---	---	---	30%	
Toluene	ND	---	120	ug/kg dry	100	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	60.1	ug/kg dry	100	---	ND	---	---	---	30%	
Xylenes, total	ND	---	180	ug/kg dry	100	---	ND	---	---	---	30%	
Naphthalene	1990	---	240	ug/kg dry	100	---	2150	---	---	7	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 110 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		89 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		79-120 %		"						
Matrix Spike (24D0231-MS1)			Prepared: 04/03/24 12:35 Analyzed: 04/05/24 14:03									

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Project Number: M1964.06.001

Project Manager: David Weatherby

Report ID:

A4D0964 - 04 16 24 1843

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24D0231 - EPA 5035A						Soil						
Matrix Spike (24D0231-MS1)			Prepared: 04/03/24 12:35 Analyzed: 04/05/24 14:03									
QC Source Sample: Non-SDG (A4D0913-05)												
5035A/8260D												
Benzene	1200	---	12.5	ug/kg dry	50	1250	ND	96	77-121%	---	---	
Toluene	1260	---	62.5	ug/kg dry	50	1250	ND	100	77-121%	---	---	
Ethylbenzene	1270	---	31.2	ug/kg dry	50	1250	ND	101	76-122%	---	---	
Xylenes, total	3740	---	93.7	ug/kg dry	50	3750	ND	100	78-124%	---	---	
Naphthalene	1080	---	125	ug/kg dry	50	1250	ND	86	62-129%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 91 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		91 %		79-120 %		"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24D0282 - EPA 5035A						Soil						
Blank (24D0282-BLK1)			Prepared: 04/08/24 09:05 Analyzed: 04/08/24 11:07									
5035A/8260D												
Benzene	ND	---	10.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	75.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	100	ug/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		79-120 %		"						
LCS (24D0282-BS1)			Prepared: 04/08/24 09:05 Analyzed: 04/08/24 10:16									
5035A/8260D												
Benzene	900	---	10.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
Toluene	940	---	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Ethylbenzene	946	---	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Xylenes, total	2790	---	75.0	ug/kg wet	50	3000	---	93	80-120%	---	---	
Naphthalene	900	---	100	ug/kg wet	50	1000	---	90	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		79-120 %		"						
Duplicate (24D0282-DUP1)			Prepared: 04/04/24 12:00 Analyzed: 04/08/24 20:57									
QC Source Sample: Non-SDG (A4D0972-01)												
Benzene	ND	---	971	ug/kg dry	5000	---	ND	---	---	---	30%	
Toluene	ND	---	4860	ug/kg dry	5000	---	ND	---	---	---	30%	
Ethylbenzene	49700	---	2430	ug/kg dry	5000	---	48500	---	---	2	30%	
Xylenes, total	254000	---	7280	ug/kg dry	5000	---	248000	---	---	3	30%	
Naphthalene	15100	---	9710	ug/kg dry	5000	---	15800	---	---	4	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		94 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		79-120 %		"						
Matrix Spike (24D0282-MS1)			Prepared: 04/04/24 10:30 Analyzed: 04/08/24 17:32									

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Project Manager: **David Weatherby**

Report ID:

A4D0964 - 04 16 24 1843

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24D0282 - EPA 5035A						Soil						
Matrix Spike (24D0282-MS1)			Prepared: 04/04/24 10:30 Analyzed: 04/08/24 17:32									
<u>QC Source Sample: Non-SDG (A4D0963-01)</u>												
<u>5035A/8260D</u>												
Benzene	1100	---	10.7	ug/kg dry	50	1070	ND	102	77-121%	---	---	
Toluene	1140	---	53.7	ug/kg dry	50	1070	ND	106	77-121%	---	---	
Ethylbenzene	1150	---	26.8	ug/kg dry	50	1070	ND	108	76-122%	---	---	
Xylenes, total	3420	---	80.5	ug/kg dry	50	3220	ND	106	78-124%	---	---	
Naphthalene	936	---	107	ug/kg dry	50	1070	ND	87	62-129%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 91 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		86 %		79-120 %		"						

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Portland, OR 97232Project: AEC-BoardmanProject Number: **M1964.06.001**Project Manager: **David Weatherby****Report ID:****A4D0964 - 04 16 24 1843**

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24D0339 - EPA 1311/5030C TCLP Volatiles						Solid						
Blank (24D0339-BLK1)			Prepared: 04/09/24 08:25		Analyzed: 04/09/24 10:56		TCLP					
1311/8260D												
Benzene	ND	---	0.0100	mg/L	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 110 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						
LCS (24D0339-BS1)			Prepared: 04/09/24 08:25		Analyzed: 04/09/24 10:01		TCLP					
1311/8260D												
Benzene	1.01	---	0.0100	mg/L	50	1.00	---	101	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		80-120 %		"						
Duplicate (24D0339-DUP1)			Prepared: 04/09/24 08:25		Analyzed: 04/09/24 11:50		COMP					
QC Source Sample: SP-S-1 (A4D0964-07)												
1311/8260D												
Benzene	ND	---	0.0100	mg/L	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 110 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
Matrix Spike (24D0339-MS1)			Prepared: 04/09/24 08:25		Analyzed: 04/09/24 12:18		COMP					
QC Source Sample: SP-S-1 (A4D0964-07)												
1311/8260D												
Benzene	1.07	---	0.0100	mg/L	50	1.00	ND	107	79-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

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Portland, OR 97232Project: AEC-BoardmanProject Number: M1964.06.001Project Manager: David WeatherbyReport ID:A4D0964 - 04 16 24 1843

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 24D0283 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (24D0283-DUP1)			Prepared: 04/08/24 09:11 Analyzed: 04/09/24 06:47									
<u>QC Source Sample: Non-SDG (A3L1240-01)</u>												
% Solids	84.1	---	1.00	%	1	---	83.6	---	---	0.5	10%	
Duplicate (24D0283-DUP2)			Prepared: 04/08/24 09:11 Analyzed: 04/09/24 06:47									
<u>QC Source Sample: Non-SDG (A3L1240-02)</u>												
% Solids	86.8	---	1.00	%	1	---	86.6	---	---	0.3	10%	
Duplicate (24D0283-DUP3)			Prepared: 04/08/24 09:11 Analyzed: 04/09/24 06:47									
<u>QC Source Sample: Non-SDG (A3L1240-03)</u>												
% Solids	89.3	---	1.00	%	1	---	89.5	---	---	0.3	10%	
Duplicate (24D0283-DUP4)			Prepared: 04/08/24 09:11 Analyzed: 04/09/24 06:47									
<u>QC Source Sample: Non-SDG (A3L1240-04)</u>												
% Solids	76.6	---	1.00	%	1	---	78.9	---	---	3	10%	
Duplicate (24D0283-DUP5)			Prepared: 04/08/24 09:11 Analyzed: 04/09/24 06:47									
<u>QC Source Sample: Non-SDG (A3L1240-05)</u>												
% Solids	72.2	---	1.00	%	1	---	69.7	---	---	4	10%	
Duplicate (24D0283-DUP6)			Prepared: 04/08/24 09:11 Analyzed: 04/09/24 06:47									
<u>QC Source Sample: Non-SDG (A3L1240-06)</u>												
% Solids	70.5	---	1.00	%	1	---	70.4	---	---	0.3	10%	
Duplicate (24D0283-DUP7)			Prepared: 04/08/24 09:11 Analyzed: 04/09/24 06:47									
<u>QC Source Sample: Non-SDG (A3L1240-07)</u>												
% Solids	76.8	---	1.00	%	1	---	75.2	---	---	2	10%	
Duplicate (24D0283-DUP8)			Prepared: 04/08/24 18:56 Analyzed: 04/09/24 06:47									
<u>QC Source Sample: Non-SDG (A4D1022-01)</u>												
% Solids	89.0	---	1.00	%	1	---	83.1	---	---	7	10%	

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Project Manager: **David Weatherby**

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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 24D0283 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (24D0283-DUP9)			Prepared: 04/08/24 18:56 Analyzed: 04/09/24 06:47									
QC Source Sample: Non-SDG (A4D1032-02)												
% Solids	89.7	---	1.00	%	1	---	88.6	---	---	1	10%	

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

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24D0384 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (24D0384-DUP1)			Prepared: 04/10/24 06:27 Analyzed: 04/10/24 10:36									
QC Source Sample: Non-SDG (A4D1070-01)												
% Solids	74.0	---	1.00	%	1	---	74.7	---	---	0.9	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: 24D0274							
A4D0964-08	Soil	NWTPH-HCID	04/04/24 13:20	04/08/24 04:57	11.39g/10mL	10g/10mL	0.88
A4D0964-09	Soil	NWTPH-HCID	04/04/24 13:25	04/08/24 04:57	11.83g/10mL	10g/10mL	0.85
A4D0964-10	Soil	NWTPH-HCID	04/04/24 13:27	04/08/24 04:57	11.22g/10mL	10g/10mL	0.89
A4D0964-11	Soil	NWTPH-HCID	04/04/24 13:30	04/08/24 04:57	11.24g/10mL	10g/10mL	0.89
A4D0964-12	Soil	NWTPH-HCID	04/04/24 13:05	04/08/24 04:57	11.18g/10mL	10g/10mL	0.89
A4D0964-13	Soil	NWTPH-HCID	04/04/24 13:01	04/08/24 04:57	11.93g/10mL	10g/10mL	0.84
A4D0964-14	Soil	NWTPH-HCID	04/04/24 13:03	04/08/24 04:57	11.31g/10mL	10g/10mL	0.88
A4D0964-15	Soil	NWTPH-HCID	04/04/24 13:35	04/08/24 04:57	11.64g/10mL	10g/10mL	0.86
A4D0964-16	Soil	NWTPH-HCID	04/04/24 13:05	04/08/24 04:57	11.07g/10mL	10g/10mL	0.90

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24D0300							
A4D0964-07	Soil	NWTPH-Dx	04/04/24 13:45	04/08/24 11:42	11.54g/5mL	10g/5mL	0.87
Batch: 24D0465							
A4D0964-11RE1	Soil	NWTPH-Dx	04/04/24 13:30	04/11/24 15:26	11.46g/5mL	10g/5mL	0.87
A4D0964-12RE1	Soil	NWTPH-Dx	04/04/24 13:05	04/11/24 15:26	11.71g/5mL	10g/5mL	0.85

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

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24D0282							
A4D0964-06RE1	Soil	NWTPH-Gx (MS)	04/04/24 14:00	04/04/24 14:00	51.85g/40mL	5g/5mL	0.77

BTEX+N Compounds by EPA 8260D

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24D0282							
A4D0964-06RE1	Soil	5035A/8260D	04/04/24 14:00	04/04/24 14:00	51.85g/40mL	5g/5mL	0.77

TCLP Volatile Organic Compounds by EPA 1311/8260D

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: **AEC-Boardman**Project Number: **M1964.06.001**Project Manager: **David Weatherby****Report ID:****A4D0964 - 04 16 24 1843**

SAMPLE PREPARATION INFORMATION

TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030C TCLP Volatiles

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24D0339							
A4D0964-07	Soil	1311/8260D	04/04/24 13:45	04/09/24 08:25	5mL/5mL	5mL/5mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24D0283							
A4D0964-07	Soil	EPA 8000D	04/04/24 13:45	04/08/24 09:11			NA
A4D0964-08	Soil	EPA 8000D	04/04/24 13:20	04/08/24 09:11			NA
A4D0964-09	Soil	EPA 8000D	04/04/24 13:25	04/08/24 09:11			NA
A4D0964-10	Soil	EPA 8000D	04/04/24 13:27	04/08/24 09:11			NA
A4D0964-11	Soil	EPA 8000D	04/04/24 13:30	04/08/24 09:11			NA
A4D0964-12	Soil	EPA 8000D	04/04/24 13:05	04/08/24 09:11			NA
A4D0964-13	Soil	EPA 8000D	04/04/24 13:01	04/08/24 09:11			NA
A4D0964-14	Soil	EPA 8000D	04/04/24 13:03	04/08/24 09:11			NA
A4D0964-15	Soil	EPA 8000D	04/04/24 13:35	04/08/24 09:11			NA
A4D0964-16	Soil	EPA 8000D	04/04/24 13:05	04/08/24 09:11			NA
Batch: 24D0384							
A4D0964-06	Soil	EPA 8000D	04/04/24 14:00	04/10/24 06:27			NA

TCLP Extraction by EPA 1311 (ZHE)

Prep: EPA 1311 TCLP/ZHE

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24D0316							
A4D0964-07	Soil	EPA 1311 ZHE	04/04/24 13:45	04/08/24 14:40	25.2g/500.6g	25g/500g	NA

Apex Laboratories

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Portland, OR 97232

Project: **AEC-Boardman**

Project Number: **M1964.06.001**

Project Manager: **David Weatherby**

Report ID:

A4D0964 - 04 16 24 1843

QUALIFIER DEFINITIONS

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

Apex Laboratories

- COMP** Analyzed sample is a composite of discrete samples that was performed in the laboratory.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-06** Internal Standard area outside of method specified limits. Data is Not Reported. See previous or subsequent runs for reportable sample data.
- Q-37** Sample is non-homogenous. Sample results are less than the Reporting Level (MDL and/or MRL) and Duplicate results exceed this level. See QC Section of the report for Duplicate results.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 24D0316.
- X** See Case Narrative.

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Report ID:

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

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).

Apex Laboratories

Philip Nerenberg, Lab Director

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Project: **AEC-Boardman**

Project Number: **M1964.06.001**

Project Manager: **David Weatherby**

Report ID:

A4D0964 - 04 16 24 1843

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to $\frac{1}{2}$ the Reporting Limit (RL).

-For Blank hits falling between $\frac{1}{2}$ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-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

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Philip Nerenberg, Lab Director



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Project: **AEC-Boardman**

Project Number: **M1964.06.001**

Project Manager: **David Weatherby**

Report ID:

A4D0964 - 04 16 24 1843

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

Philip Nerenberg, Lab Director

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Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: **AEC-Boardman**
Project Number: **M1964.06.001**
Project Manager: **David Weatherby**

Report ID:
A4D0964 - 04 16 24 1843

APEX LABS		CHAIN OF CUSTODY		Lab # <u>A4D0964</u> coc 1 of 2	
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323		Project Mgr: <u>David Weatherby</u>		Project #: <u>M1964.06.001</u>	
Company: <u>MFA</u>		Project Name: <u>AEC-Boardman</u>		Email: <u>Dweatherby@emultus.com</u>	
Address: <u>109 E 13th Street Vanc WA</u>		Phone: <u>509-501-5284</u>		Project #: <u>M1964.06.001</u>	
Sampled by: <u>Guia Barajona</u>		Project Mgr: <u>David Weatherby</u>		Project #: <u>M1964.06.001</u>	
Site Location: <u>OR</u>		Project Name: <u>AEC-Boardman</u>		Project #: <u>M1964.06.001</u>	
State: <u>OR</u>		Project Name: <u>AEC-Boardman</u>		Project #: <u>M1964.06.001</u>	
County: <u>Morristown</u>		Project Name: <u>AEC-Boardman</u>		Project #: <u>M1964.06.001</u>	
SAMPLE ID		DATE		TIME	
SP-S-A		4/4/24		13:45	
SP-S-B		4/4/24		13:50	
SP-S-C		4/4/24		13:55	
SP-S-D		4/4/24		13:58	
SP-S-E		4/4/24		14:00	
SP-S-A-E		4/4/24		14:00	
Matrix		S		S	
# OF CONTAINERS		1		1	
NWTPH-HCID		1		1	
NWTPH-DX		1		1	
NWTPH-CX		1		1	
8260 BTEX + Naphthalene		1		1	
8260 RBDM VOCs		1		1	
8260 Halo VOCs		1		1	
8270 VOCs Full List		1		1	
8270 SIM PAHs		1		1	
8270 Semi-Vols Full List		1		1	
8082 PCBs		1		1	
8081 Pesticides		1		1	
RCRA Metals (8)		1		1	
Priority Metals (13)		1		1	
Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Ti, V, Zn		1		1	
TOTAL DISS. TCIP		1		1	
TCIP Metals (8)		1		1	
TCIP Benzene		1		1	
Hold Sample		1		1	
Frozen Archive		1		1	

Standard Turn Around Time (TAT) = 10 Business Days

1 Day 2 Day 3 Day

TAT Requested (circle)

5 Day Standard Other:

SPECIAL INSTRUCTIONS:

Samples SP-S-A through E to be compared and renamed SP-S-1.

RECEIVED BY:		RELINQUISHED BY:	
Signature: <u>Guia Barajona</u>	Date: <u>4/14/24</u>	Signature: <u>Isabel Garcia</u>	Date: <u>4/15/24</u>
Printed Name: <u>Guia Barajona</u>	Time: <u>17:40</u>	Printed Name: <u>Isabel Garcia</u>	Time: <u>10:27</u>
Company: <u>MFA</u>	Company: <u>MFA</u>	Company: <u>Apex</u>	Company: <u>Apex</u>

Form Y-002 R-00



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: AEC-Boardman

Project Number: M1964.06.001

Project Manager: David Weatherby

Report ID:

A4D0964 - 04 16 24 1843

APEX LABS		CHAIN OF CUSTODY		Lab # <u>A4D0964</u> COC <u>2</u> of <u>2</u>	
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323		Project Mgr: <u>David Weatherby</u>		Project Name: <u>AEC - Boardman</u>	
Company: <u>MFA</u>		Project #/ID: <u>1964.06.001</u>		Project #/ID: <u>1964.06.001</u>	
Address: <u>109 E 13th Street Vane, WA</u>		Phone: <u>503-581-5204</u>		Email: <u>Dweatherby@maul-foster.com</u>	
Sampled by: <u>Cirna Baragana</u>		ANALYSIS REQUEST			
Site Location: <u>OR</u>					
State: <u>OR</u>					
County: <u>Marion</u>					
SAMPLE ID		DATE	TIME	MATRIX	# OF CONTAINERS
EX1-S-NE-15	4/14/24	1320	S	3	✓
EX1-S-NW-15	4/14/24	1325	S	3	✓
EX1-S-SE-16	4/14/24	1327	S	3	✓
EX1-S-SW-15	4/14/24	1330	S	3	✓
FL2-S-1.5	4/14/24	1305	S	3	✓
EX2-S-SE-15	4/14/24	1305	S	3	✓
EX2-S-NW-15	4/14/24	1323	S	3	✓
EX1-S-CB-15	4/14/24	1335	S	3	✓
Standard Turn Around Time (TAT) = 10 Business Days					
TAT Requested (circle) <u>2 Day</u> <u>3 Day</u> <u>5 Day</u> Other: _____					
SPECIAL INSTRUCTIONS:					
SAMPLES ARE HELD FOR 30 DAYS					
RELINQUISHED BY:		RECEIVED BY:		RECEIVED BY:	
Signature: <u>Cirna Baragana</u>		Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>	
Date: <u>4/14/24</u>		Date: <u>4/15/24</u>		Date: <u>4/15/24</u>	
Time: <u>17:40</u>		Time: <u>10:27</u>		Time: <u>10:27</u>	
Printed Name: <u>Cirna Baragana</u>		Printed Name: <u>Isabel Garcia</u>		Printed Name: <u>K. Burger</u>	
Company: <u>MFA</u>		Company: <u>MFA</u>		Company: <u>Apex</u>	
Form Y-002 R-00					

Apex Laboratories

Philip Nerenberg, Lab Director

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: AEC-BoardmanProject Number: M1964.06.001Project Manager: David WeatherbyReport ID:A4D0964 - 04 16 24 1843**APEX LABS COOLER RECEIPT FORM**Client: MFA Element WO#: A4D0964Project/Project #: AEC-Boardman M1964.06.001**Delivery Info:**Date/time received: 4/5/24 @ 1027 By: KABDelivered by: Apex Client ☒ ESS FedEx UPS Radio Morgan SDS Evergreen OtherFrom USDA Regulated Origin? Yes No ☒**Cooler Inspection** Date/time inspected: 4/5/24 @ 1027 By: KABChain of Custody included? Yes ☒ NoSigned/dated by client? Yes ☒ NoContains USDA Reg. Soils? Yes No ☒ Unsure (email RegSoils)

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

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

Green dots applied to out of temperature samples? Yes ☒ NoOut of temperature samples form initiated? Yes ☒ No**Sample Inspection:** Date/time inspected: 4/5/24 @ 11:26 By: KABAll samples intact? Yes ☒ No Comments:Bottle labels/COCs agree? Yes No ☒ Comments: FL1-5-1.5 containers receivedbut not listed on COC; container reads date as 4/4/24 & time as 13:05 time on FL2-5-1.5 reads 13:15COC/container discrepancies form initiated? Yes No ☒Containers/volumes received appropriate for analysis? Yes ☒ No Comments:Do VOA vials have visible headspace? Yes No NA ☒

Comments:

Water samples: pH checked: Yes No NA ☒ pH appropriate? Yes No NA ☒ pH ID:

Comments:

Labeled by:

KAB

Witness:

KAB

Cooler Inspected by:

KAB

Form Y-003 R-02

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Bill of Sale for 5 6kgallon tanks

I Jacob Howe, Employee of Anderson Environmental Contracting am releasing possession of five (5) UST's, all 6,000 gallon tanks to T&J Recycling on April 4th, 2024 for a total of \$5.00.

Site address of Tank origin - 1005 Main St, Boardman, OR
97818

Seller ~~x~~ Jacob Howe
date x 4/4/24

Buyer ~~x~~ T&J Recycling
date x 4/4/24

RECEIVED APR 15 2024



Oil Re-Refining Company, Inc.

Invoice

Date	Invoice #
4/4/2024	464255

Bill To
Anderson Environmental Contracting, LLC 705 Colorado St Kelso, WA 98626-5506

Ship To
Job#23-4078

Resell Expires	12/31/2017
----------------	------------

Option	P.O. Number	Terms	Due Date	Ship Date	Bill of Lading	Account #
Email - see notes		30 Days Net	5/4/2024	4/3/2024	R1240403008	9315

Item Code	Description	U/M	Quantity	Price Each	Amount
Truck Wash Out	Truck Wash Out	Ea	1	60.00	60.00
XRF Analysis T...	XRF Analysis Testing In House	Ea	1	25.00	25.00
Wastewater (fue...	For recycling, CDT test:	Gal	400	0.50	200.00
Oily Solids (gall...	For recycling, Flash Point > 200 F. CDT test:	Gal	100	2.25	225.00
<div style="text-align: right; margin-right: 100px;">24-4025</div> <div style="display: flex; justify-content: space-between;"> <div> Job #: <u>23-4078</u> GL Code: <u>5130.40</u> Cost Type: <u>D</u> Voucher: </div> <div> PM: <u>TB</u> Approved Date </div> </div>					

				Total	\$510.00
--	--	--	--	--------------	----------

Phone #	Fax #	E-mail
503-286-8352	503-286-5027	ar@orrcorecycles.com

Payments/Credits	\$0.00
Balance Due	\$510.00
We accept all major credit cards.	

Remit payment to: 4150 N Suttle Rd. Portland, OR 97217-7717

Unpaid invoices past 30 days will incur a 1.5% per month finance charge.