BB&A ENVIRONMENTAL

EUGENE
32986 Roberts Court, Coburg, OR 97408
P.O. Box 40187, Eugene, OR 97404
(541) 484-9484

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

May 29, 2024

Oregon DEQ – UST Program
700 NE Multnomah Street, Suite 600
Portland, Oregon 97232

RE: UST Decommissioning Checklist and Site Assessment Report

FOR: 4-J School District Ed Center – DEQ Facility #2066
200 North Monroe Street
Eugene, Oregon 97402

Dear Staff:

Please find a copy of the Oregon Department of Environmental Quality (DEQ) Underground Storage Tank Decommissioning Checklist and Site Assessment Report for the above-mentioned site. If you have any questions regarding the contents please contact me at mluczak@bbaenv.com or (541) 484-9484.

Sincerely,
BB&A Environmental

Matthew Luczak
Associate Geologist / Project Manager

State of Oregon Department of Environmental Quality

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: 2066

FACILITY NAME: 4-J School District Ed Center

FACILITY ADDRESS: 200 North Monroe Street Eugene, Oregon 97402

PERMITTEE PHONE: 541-790-7400 DATE: 5/20/2024

B. WORK PERFORMED BY:

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

DEQ Service Provider's License #: 10974 Construction Contractors Board License #: 76509

Name: Bergeson-Boese & Assoc. (BB&A Env.)

Telephone: 541-484-9484

DEQ Decommissioning Supervisor's License #: 27501

Name: Matthew Luczak, BB&A Env.

Telephone: 541-484-9484

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

Name: _____

Telephone: _____

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

Name: _____

Telephone: _____

C. DATES:

Decommissioning/Change-in-Service Notice - Date Submitted: 5/7/2024 (30 days before work starts).

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

DEQ Person Notified: DEQ Diana Foss, Dylan Eckert *

Date Work Started: 3/27/2024 * Date Work Completed: 5/10/2024

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: _____

*UST Decommissioned as HOT in March 2023. Decommissioning completed as registered UST on 5/10/24

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
1		8,000	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 piping recycled at Schnitzer Steel location at 111 Hwy 99 in Eugene, OR

	TANK AND PIPING DISPOSAL METHOD				DISPOSAL LOCATION OF TANK CONTENTS	
TANK ID #	SCRAP	LAND-FILL	OTHER	IDENTIFY LOCATION & PROPERTY OWNER	LIQUIDS	SLUDGES
1	☐	☐	☑	William J Welt Inc.	Reused (diesel)	
	☐	☐	☐	290 E Palmer Ave Cottage Grov		
	☐	☐	☐			
	☐	☐	☐	ORRCO	Recycled (water)	
	☐	☐	☐	4150 N Suttle Rd Portland		

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

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

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

G. CONTAMINATION INFORMATION:

TANK ID #	GROUND WATER IN PIT ?	PRODUCT ODOR IN SOIL ?	PRODUCT STAINS IN SOIL ?	NUMBER OF SAMPLES	LABORATORY (NAME, CITY, STATE, PHONE)
1	☑	☐	☐	7	Apex Laboratory, 6700 SW Sandburg St, Tigard, OR 97223
	☐	☐	☐		2 soil and 1 GW collected in March 2023
	☐	☐	☐		3 soil and 1 GW collected on May 10, 2023
	☐	☐	☐		
	☐	☐	☐		

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.)

Attachment A: HOT Decommissioning Report
Attachment B: DEQ Approved UST Decommissioning Sampling Plan
Attachment C: Site Figures
Attachment D: Push Probe Boring Logs
Attachment E: Laboratory Analytical Report and Chain-of-Custody Documents

I. SAFETY EQUIPMENT ON JOB SITE:

Fire Extinguisher:	Type/Size:	Type ABC/20 lb.	Recharge Date:	
Combustible Gas Detector:	Model:	RKI Instruments GX-2012	Calibration Date:	3/27/2023
Oxygen Analyzer:	Model:	RKI Instruments GX-2012	Calibration Date:	3/27/2023

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: 5/8/2024 DEQ Staff: Diana Foss	✔			
17. Contamination concerns fully resolved?	✔			
18. Fill Material? Type: CDF Concrete	✔			

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: Ryan Spain, 4J School District
(*Please Print*)

Permittee or Tank Owner: _____ Date: 5/28/24
(*Signature*)

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

Licensed Supervisor: Matthew Luczak
(*Please Print*)

Licensed Supervisor: _____ Date: 5/28/2024
(*Signature*)

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

Executive Officer: Randall J. Boese
Licensed Service Provider (*Please Print*)

Executive Officer: _____ Date: 5/28/2024
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 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

ATTACHMENT A

HOT Decommissioning Report

BB&A ENVIRONMENTAL

EUGENE
32986 Roberts Court, Coburg, OR 97408
P.O. Box 40187 Eugene, OR 97404
(541) 485-0404

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

HEATING OIL TANK SERVICE PROVIDER CERTIFICATION

Date of Report Certification:	April 7, 2023
Tank Owner Name:	4-J School District
Tank Site Address:	200 North Monroe Street Eugene, Oregon 97402
Tank Owner Mailing Address:	715 West 4th Avenue Eugene, Oregon 97402
DEQ Cleanup File Number:	NA
Type of Project:	Clean Decommissioning Only

Bergeson-Boese & Associates, Inc. has performed the heating oil tank services at the above property and certifies that the work performed meets the appropriate requirements of OAR 340-122-0205 through 340-122-0360 and OAR Chapter 340, Division 177.

Based on information and belief formed after reasonable inquiry, the heating oil tank services performed under this certification were conducted in compliance with all applicable federal, state, and local laws.

Bergeson-Boese & Associates, Inc. is currently insured as required by OAR 340-163-0050.

Signed By: _____ Date Signed: 4-7-2023

Randall J. Boese, RG/LHG, Principal/President

Licensed Service Provider Company Name: Bergeson-Boese & Associates, Inc.
Service Provider License Number: 16484 Expiration Date: 03/15/2024

Attached is all of the following:

- Appropriate Project Certification Checklist, signed by licensed supervisor
- Project report, including all supporting documentation
- Project Cost Summary form

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Underground Storage Tank Program

HEATING OIL TANK SERVICES
SERVICE PROVIDER REPORT CERTIFICATION

HEATING OIL TANK DECOMMISSIONING REPORT FORM

Completion of this form meets the requirements of OAR 340-177-0025. **Be sure to sign and date page two after answering all questions.**

DEQ Use Only: File No. _____

Property Owner Name: 4-J School district

Property Address: 200 North Monroe Street

City/State/Zip Code: Eugene, Oregon 97402 County: Lane

Owner Phone Number: 541-790-7427

Owner Mailing Address (if different): 715 West 4th Avenue
Eugene, Oregon 97402

Licensed Heating Oil Tank Service Provider: Bergeson-Boese & Associates, Inc. dba BB&A

License Number: 16484 Expiration Date: 3/15/24

Yes [✔] No [ ] A narrative report is attached. (check √ yes or no)

1. What national code of practice was followed during decommissioning?
   API 1604

2. The tank and associated piping must be cleaned as thoroughly as possible to the maximum extent practicable of all product, sludge and/or water.
   Describe how the tank was cleaned: See Attached Narrative

   How much product was removed? 5550 gallons Sludge? _____ gallons Water? 300 gallons

   Where was the product/sludge/water **recycled?** Welt & ORRCO **disposed?** _____

3. 3/29/23 Date tank was **removed** [ ] or decommissioned **in-place** [✔]. **(check √ removed or in-place)**

   Approx. size of tank: 8000 gallons

   If tank filled in-place, what type of fill material was used? 2 SK 3/8" CDF amount? 45 cubic yards
   Tank must be completely filled with inert solid material that is compacted and appropriate for site conditions.

   If tank was removed, where was it **recycled** [ ] **disposed** [ ] of? **(check √ recycled or disposed)**

   Name and location of business _____

4. What was observed when the tank was removed from the pit or decommissioned in-place? Describe tank condition and excavation, etc.: See Attached Narrative

(check √ yes or no)

5. Yes ☐ No ☑ Groundwater was encountered in the tank pit. If yes, ATTACH a separate summary of the data collected . *DEQ must be notified immediately if groundwater encountered.*

6. A site assessment must be performed that meets the requirements of OAR 340-177-0025(2)(c) and (d).

Provide a summary of the concentrations measured for soil samples collected from each sample location. NWTPH-HCID test may be used, however any positive results must be confirmed by NWTPH-Dx.
Note: If concentrations of TPH-Dx are greater than 50 mg/kg, this is a confirmed release and must be reported to DEQ; this project is then considered a cleanup and use of this form is not appropriate.

Sample ID	Sample Location	Sample Depth	NWTPH-HCID (detect/non-detect)	NWTPH-Dx Conc. (mg/kg)
P1-14'	UST West Wall	14 Feet BLS	NA	ND (<21.0)
P2-14'	UST East Wall	14 Feet BLS	NA	ND (<23.1)

7. The following information should be ATTACHED as part of this report (list the attachment number assigned for each one):

Attachment Number	
	Attachment C - Push Probe Boring Logs
A	Site map, drawn roughly to scale, showing the location of all buildings on the property and on adjacent properties and the location of the heating oil tank. Include distances in feet between objects.
A	Sketch of the property that clearly shows the sample locations and depths of all soil and/or water samples collected and identifies each location and sample with an unique sample identification code.
D	Copies of chain-of-custody forms for all soil and water samples collected. *Note: Chain-of-custody forms should include the date, time, and location of each sample collected; the name and company of the person collecting the samples; a description of how the samples were collected, stored, and shipped to the laboratory; and note any problems encountered during the cleanup or sampling process that may have affected sample integrity. Forms should clearly state the address of where samples were collected as a unique identifier.*
D	Copies of all laboratory data reports. Test methods used, including method reporting limits, must be included.
B	Copies of all receipts or permits related to the disposal of any **product / sludge / water**, and/or decommissioned **tank** and/or **piping** (circle all in **bold** that apply).
E	Photographs taken at the time of heating oil tank decommissioning and cleanup (not required, but helpful).

"By my signature below, I state that the information contained in this report is true and complete to the best of my knowledge."

Name of person preparing report (please print): Matthew Luczak

Signature: Matthew Luczak Date: **4/7/2023**

Supervisor License No.: 27497 Expiration Date: 9/21/23

NOTE: If decommissioning work and report documentation was conducted by the homeowner, on a separate sheet of paper, please describe how you learned how to perform this work.

Clears All Entries **Print Form**

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Underground Storage Tank Program

HEATING OIL TANK SERVICES
SERVICE PROVIDER REPORT CERTIFICATION

DECOMMISSIONING CHECKLIST

COMPLETE this checklist for any voluntary decommissioning project certified. Important: This checklist is for decommissioning projects where no contamination has been detected. If contamination is present, use the Cleanup Checklist.

GENERAL INFORMATION

Tank Owner Name: 4-J School District

Tank Site Address: 200 North Monroe Street
Eugene, Oregon 97402

Tank Owner Phone Number: 541-790-7427

Please Print or Type

Licensed Service Provider Company Name: Bergeson-Boese & Associates, Inc. dba BB&A Environmental

16484 License Number

3/15/24 Expiration Date

✓ **Check each item that is complete and correct (i.e. true).** By checking any of the boxes in this checklist, you are indicating that the statement applies to this project. If there are any exceptions to the statement, please note them in the comment area provided. If the statement does not apply, please do not check the box. *Important: This checklist must be signed on page 2 by the supervisor with responsibility for this project.*

Check one of the following three statements - A, B, or C.

☑ A. The decommissioning was performed after March 15, 2000.

☐ B. The decommissioning was performed prior to March 15, 2000 by a licensed service provider (Soil Matrix Cleanup or UST Decommissioning) and two soil samples were collected in general conformity with OAR 340-177-0025.

Service Provider Name:_____ License No.:_____

☐ C. The decommissioning was performed prior to March 15, 2000 by an unlicensed contractor or no soil samples were originally collected at time of decommissioning. If this box is checked as yes, then this checklist is used to document current site assessment actions taken to comply with the requirements of OAR 340-177-0025.

Check all of the statements below that are true.

☑ 1. No contamination was detected during the site assessment of 50 mg/kg or greater NWTPH-Dx or was non-detect for NWTPH-HCID.

☑ 2. The tank was decommissioned using a national code of practice.

☑ 3. The tank was cleaned to the maximum extent practicable. Disposal receipts for the tank contents are included in the report.

4. Check one of the following:
- (●) 4.A. The tank was decommissioned in-place, and was filled with a solid inert substance that completely filled the tank void space.
- ( ) 4.B. The tank was decommissioned by removal.

☑ 5. A site assessment was conducted that meets the requirements of OAR 340-177-0025.

☐ 6. Water was present in the tank pit and the requirements of OAR 340-177-0025(2)(3) have been met.

☑ 7. A site sketch, drawn approximately to scale, has been made of this site (OAR 340-177-0025(e) and (f)) which clearly shows:
- ☑ The location of all buildings and other key features, both man-made and natural;
- ☑ The names of adjacent streets and properties;
- ☑ The location of all excavations including those that were for the removal of tanks and associated piping;
- ☑ The location of all underground storage tanks, including those that were decommissioned as well as those that remain on the site; and
- ☑ All soil and water sample locations including sample depths.

☑ 8. All soil and/or water samples have been collected, coded, stored, shipped, and analyzed as required, and chain-of-custody forms have been filled out (OAR 340-122-0218, 340-122-0340, 340-122-0345 and 340-177-0025).

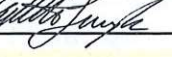
☑ 9. A report has been prepared which includes a detailed description of everything that was observed and performed at the site, and that meets the requirements of OAR 340-177-0025(3).

Additional Comments

See Attached Narrative.

"By my signature below, I state that the information contained in this report is true and complete to the best of my knowledge."

Name of person preparing report: Matthew Luczak
(please print)

Signature:  Date: 4/7/2023

Supervisor License No.: 27497 Expiration Date: 9/21/23

Clear All Entries Print Form

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EUGENE
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PORTLAND
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Wilsonville, OR 97070
(503) 570-9484

IN-PLACE UST DECOMMISSIONING NARRATIVE

PROJECT LOCATION

4-J School District – Education Center
200 North Monroe Street
Eugene, Oregon 97402

TANK INFORMATION

Size: Approximately 8,000 gallons
Product: Heating Oil (i.e., diesel)

Bergeson-Boese & Associates, Inc. (dba BB&A Environmental [BB&A]) was contacted by 4-J School District (4-J) to decommission a heating oil underground storage tank (UST) in-place at the above referenced site (herein referred to as the *subject property*) (see **Attachment A**, **Figure 1**, **2**, and **3** for the Site Vicinity Map, Site Aerial, and Site Plan).

Information provided by 4-J indicated that the UST was approximately eight (8) feet in diameter, 25 feet in length (approximately 8,000 gallons), buried approximately five (5) feet below land surface (BLS), and contained approximately 5,550 gallons of product. On March 23, 2023, BB&A was onsite at the *subject* property to oversee the pumping of product from the UST by Welt & Welt Inc. (Welt). Welt removed approximately 5,550 gallons of product from the UST and transported it to the Welt facility in Cottage Grove, Oregon (see **Attachment B** for recycling receipts).

On March 27, 2023, BB&A was onsite at the *subject property* to commence in-place decommissioning of the UST (see **Attachment B** for the City of Eugene Decommissioning Permit). A manhole located on the east portion of the UST was utilized for access to the inside UST for cleaning. Workers did not enter the UST for cleaning. BB&A cleaned the inside of the UST as thoroughly as possible by rinsing the inside walls of the UST with water via the manhole access. After cleaning the UST, the rinse water was pumped from the UST by Oil Re-Refining Company (ORRCO). Approximately 300 gallons of rinsewater was removed from the UST and transported to the ORRO facility in Portland, Oregon for recycling (see **Attachment B** for recycling receipts). The asphalt around the fill pipe and adjacent manhole was removed to allow for removal of the fill pipe and manhole covers and re-pavement after decommissioned was complete.

On March 29, 2023, BB&A was onsite at the *subject property* to resume the in-place decommissioning of the UST. As per the Oregon Department of Environmental Quality (DEQ) heating oil tank (HOT) in-place decommissioning requirements, BB&A advanced two (2) push probe borings (see **Attachment A, Figure 3** for push probe locations) within six (6) inches of the east (P2) and west (P1) walls of the UST to a depth of approximately 15-20 feet BLS. The push probes were completed utilizing track mounted Geoprobe® tooling and sampling methodology. The soil sample tooling retrieves continuous cores of subsurface soil materials in plastic probe liners approximately five (5) feet in length.

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

The bottom of the UST was approximately 13 feet BLS and soil samples were collected from approximately 14 feet BLS, one (1) foot from the bottom of the UST as per sampling requirements. No evidence of impact (i.e., visual or olfactory cues or elevated PID readings) was observed in soils from either push probe boring. Groundwater did not enter the push probe borings to a depth of 15 feet BLS. However, push probe P1 was advanced further to a depth of 20 feet to allow for groundwater accumulation. The depth to groundwater in the temporary well installed in push probe P1 was approximately 17.2 feet BLS.

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

Concentrations of diesel- and oil-range TPH were not detected above their respective Laboratory Reporting Limits (RLs) in any of the soil or groundwater samples. Concentrations of BTEX compounds and naphthalene were not detected above their respective Laboratory RLs in any of the soil or groundwater samples. Soil sample analytical results are summarized in **Table 1** and groundwater analytical results are summarized in **Table 2** below. Based on the concentrations of diesel- and oil-range TPH in soil not detected above 50 milligrams per kilogram (mg/kg), this can be considered a clean HOT decommissioning.

Table 1: Soil Analytical Results
4-J School District Education Center - 200 N Monroe Ave Eugene, OR

ft: Feet
BLS: Below Land Surface
All concentrations in parts per million (ppm) or milligrams per kilogram (mg/kg)
ND (<0.2): Indicates not detected above laboratory reporting limit identified in parentheses, where shown

Soil Sample ID - Sample Depth (ft BLS)	Total Petroleum Hydrocarbons (TPH)		Volatile Organic Compounds				
	Diesel-Range TPH	Oil-Range TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene
P1-14'	ND (<21.0)	ND (<41.9)	ND (<0.00929)	ND (<0.0465)	ND (<0.0232)	ND (<0.0697)	ND (<0.0929)
P2-14'	ND (<23.1)	ND (<46.2)	ND (<0.0120)	ND (<0.0598)	ND (<0.0299)	ND (<0.0897)	ND (<0.120)
Oregon DEQ Clean HOT Decommissioning Requirements							
Oregon DEQ - Clean Decommissioning Maximum Concentration	50	50	NA	NA	NA	NA	NA

Table 2: Groundwater Analytical Results
4-J School District Education Center - 200 N Monroe Ave Eugene, OR

All concentrations in parts per billion (ppb) or micrograms per liter (ug/L)
ND (<0.2): Indicates not detected above laboratory reporting limit identifed in paranthesis, where shown

Groundwater Sample ID	Total Petroleum Hydrocarbons (TPH)		Volatile Organic Compounds				
	Diesel-Range TPH	Oil-Range TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene
P1-GW	ND (<79.2)	ND (<158)	ND (<0.200)	ND (<1.00)	ND (<0.500	ND (<1.50)	ND (<2.00)

Following completion of the site investigation, the UST and associated piping were filled with approximately 45 cubic yards of 2 SK 3/8 inch concrete control density fill (CDF) via the manhole. The UST was filled until the CDF material reached the surface. The CDF was allowed to settle in the UST for a short period of time before additional material was poured into the manhole. The UST was presumed to be full as CDF began to flow out of the fill pipe on the opposite side of the UST. After the CDF was cured, and it was confirmed that the UST was full as the CDF material had not sunk, the area was finished to match the surrounding grade with asphalt. A log of photographs taken during the decommissioning process is included as **Attachment E**.

Should you have any questions regarding the information presented in this narrative, please feel free to contact me at (541) 484-9484 x120 or mluczak@bbaenv.com.

Sincerely,

BB&A Environmental

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

Attachments

Attachment A – Site Figures
Attachment B – Permits and Recycling Receipts
Attachment C – Push Probe Boring Logs
Attachment D – Chain-of-Custody Forms and Apex Laboratory Analytical Data Reports
Attachment E – Decommissioning Photo Log

ATTACHMENT A

Site Figures

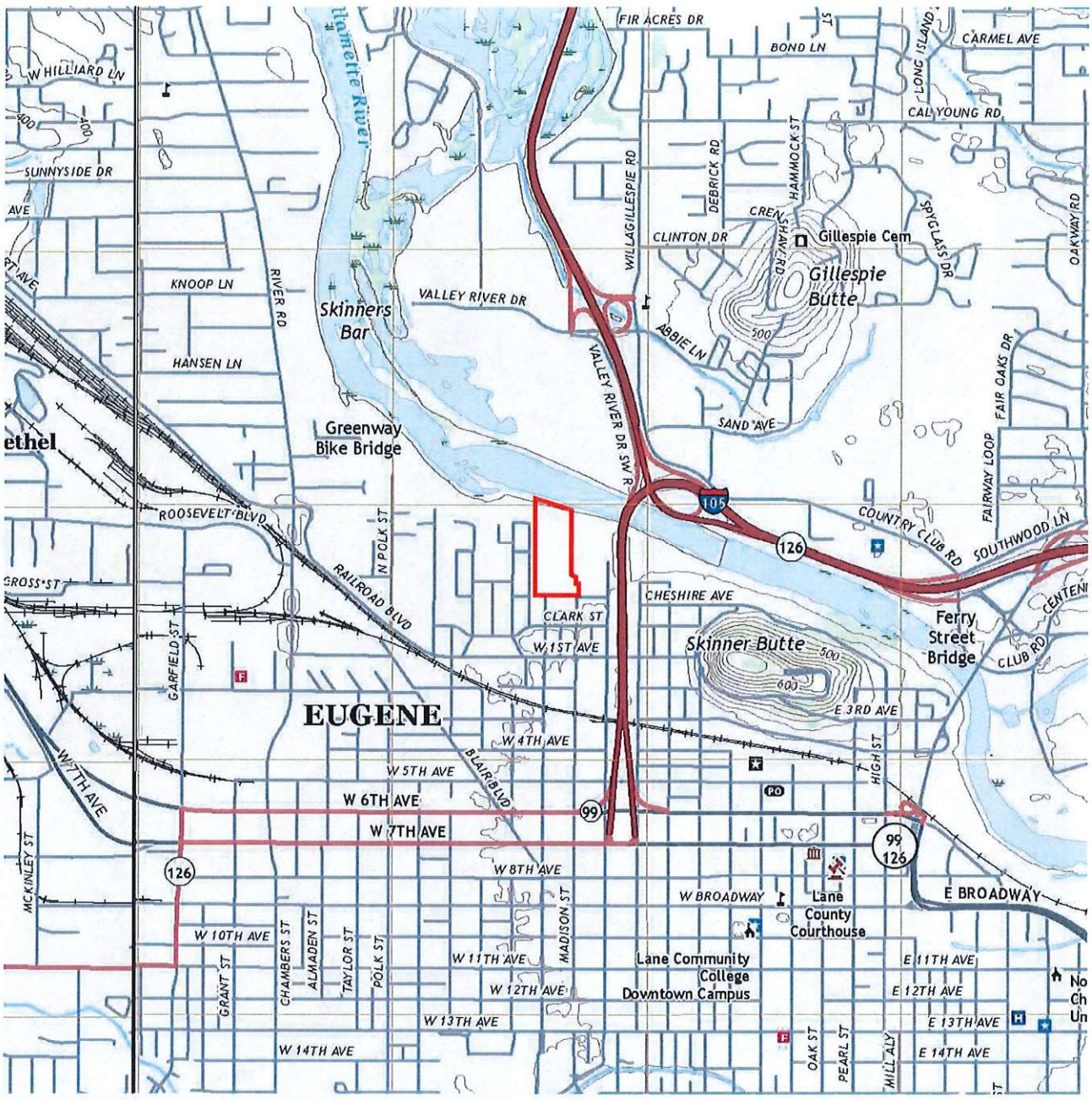


FIGURE 1

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

SITE VICINITY MAP

4J EDUCATION CENTER, 200 N. MONROE STREET, EUGENE, OREGON

BB&A ENVIRONMENTAL

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

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

www.BBAENV.COM

Job Code:	4J35DEC.23UC
CADD File:	4J35DEC.23UC
Scale:	AS SHOWN
Drawn:	KATHRYN DAVIS DESIGNS
Checked:	MATTHEW LUCZAK
Date:	03/20/23

N

0 500
250
(FEET)

PHOTO SOURCE: GOOGLE EARTH, July, 21, 2019.

SUBJECT PROPERTY

BB&A ENVIRONMENTAL

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

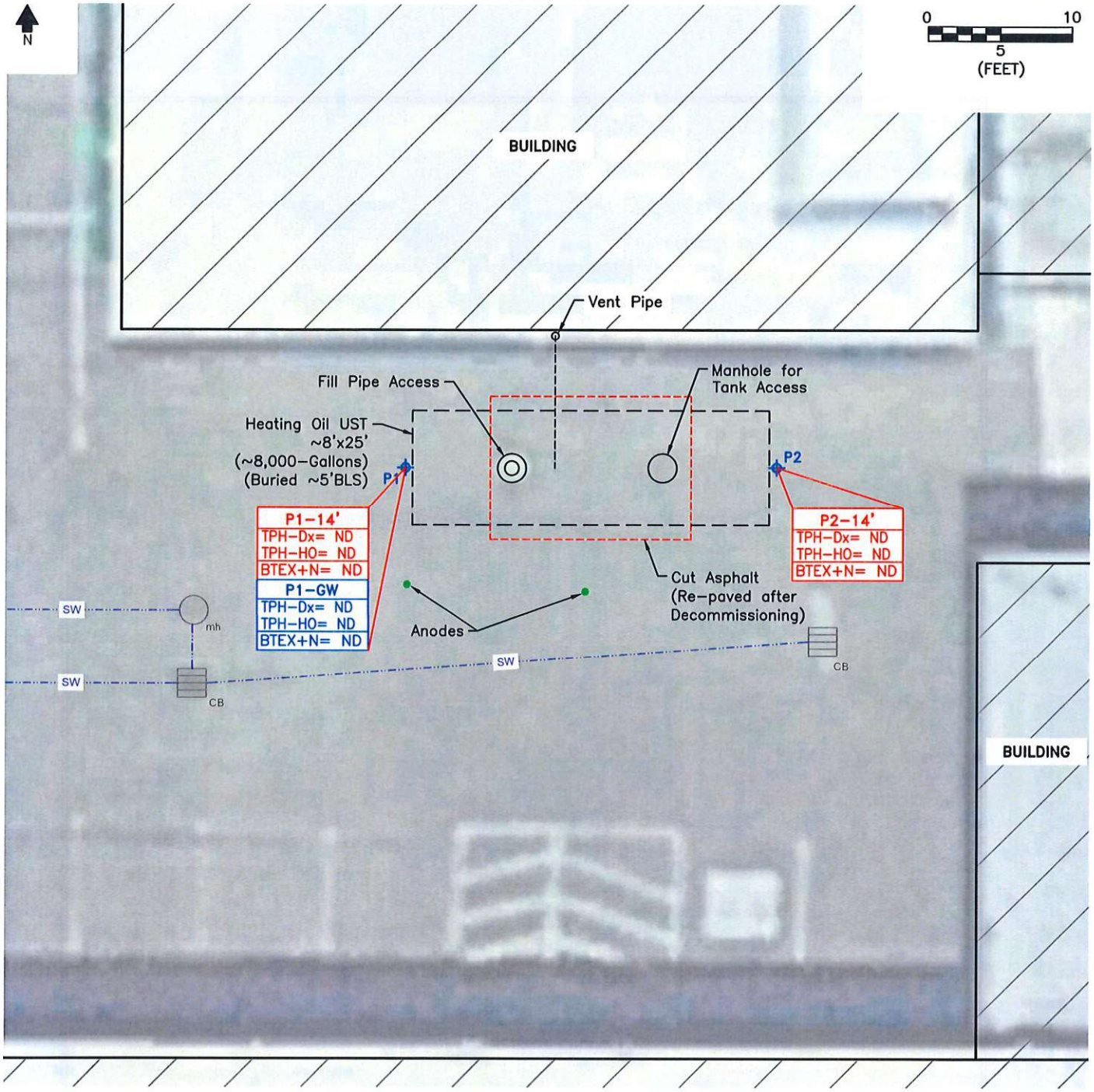
PORTLAND OFFICE
25195 SW Parkway Ave.,#207
Wilsonville, OR
ph: 503.570.9484

www.BBAENV.COM

SITE AERIAL
4J EDUCATION CENTER
200 N. MONROE STREET, EUGENE, OREGON

FIGURE #: 2

PROJECT CODE:	DATE:	SCALE:	DRAWN:	CHECKED:
4J35DEC.23UC	03/20/23	AS SHOWN	K.D.DESIGNS	MATTHEW LUCZAK



LEGEND

P1-14'
TPH-Dx= ND
TPH-HO= ND
BTEX+N= ND

Diesel-Range Total Petroleum Hydrocarbons per Northwest Method NWTPH-Dx (Diesel) & NWTPH-HO (Heavy Oil); BTEX+N per EPA Method 8260D;
Soil units in parts per million (ppm)
Groundwater units in parts per billion (ppb);
ND= Not Detected

P1 — Push Probe Location and Identification Number

Building

CB — Catch Basin

SW — Stormwater Line

mh — Manhole

BB&A ENVIRONMENTAL

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

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

www.BBAENV.COM

SITE PLAN SHOWING SAMPLE LOCATIONS & ANALYTICAL DATA
4J EDUCATION CENTER
200 N. MONROE STREET, EUGENE, OREGON

FIGURE #: 3

PROJECT CODE:	DATE:	SCALE:	DRAWN:	CHECKED:
4J35DEC.23UC	04/07/23	1"=10'	K.D.DESIGNS	MATTHEW LUCZAK

ATTACHMENT B

Decommissioning Permit and Recycling Receipts

City of Eugene
Planning & Development
Building and Permit Services
Date: 4/7/2023

Permit Number: 23-01812-01

Address: 200 N MONROE ST

Project Description: Decommission underground storage tank(heating oil)

Application Type:	Commercial	**Status:**	Issued
Scope of Work:	Tank/s	**Zoning:**	Public Land
Map:	17-03-30-23	**Tax Lot:**	00400
Subdivision:		**Addition:**	
Lot:		**Block:**	
Date Received:	03/20/23	**# Bedrooms:**	0
Commitment Date:	03/22/23	**# Dwelling Units:**	0
Ready to issue as of:	03/22/23	**In Flood Plain:**	
Project Coordinator:	Erik Swinney	**Phone:**	541-682-5372
		Sign Standards:	

BUILDING CHARACTERISTICS

Construction Types: N/A

Construction Type Comments:

OccupancyTypes: N/A

Occupancy Type Comments:

Occupancy Load: 0

Separated Building: N/A

Fire Sprinklers: N/A

Fire Alarms: N/A

Building Area: 0

Number of Stories: 0

Comment:

Floor Areas (sq ft):

Floor	Existing Floor Area	New Floor Area	Total Area

Existing floor area may not be shown.

CONTRACTOR DATA

Type	Contractor
Building	BB&A ENVIRONMENTAL
Primary Contact	LUCZAK MATTHEW

PLAN REVIEW SUMMARY

Plan review data displayed is the most current for each review. The applicant will receive notification of all issues needing additional information after all reviews on a project have been completed. Supplemental Information (SI) can be submitted prior to or after permit issuance. If you have any questions regarding your project, contact EFSwinney at 541-682-5372 or send email to erik.f.swinney@ci.eugene.or.us. Also note that some reviews (i.e., fire alarms, fire sprinklers) are deferred submittals and will be reviewed after original permit(s) have been issued.

Status Definitions

Pending = Review has not been started
Review = Under review
Waiting = Review for individual review has been completed, waiting for a response
External Wait = All reviews for project have been completed, waiting for a response

Approved	=	Review has been approved
Information	=	Information only, review not approved
Denied	=	Project cannot be approved as submitted

For information regarding the review of your project or the commitment date for completion of review, please contact your project coordinator, EFSwinney, at erik.f.swinney@ci.eugene.or.us or by phone at 541 -682-5372.

Plan Review	Status	Review Completion Date
Project Coordination, Application Submittal	Approved	03/22/23
Fire Marshal, Application Submittal	Approved	03/22/23

PERMITS AND INSPECTIONS

Permit Type	Status	Issued Date	Expiration Date	Completion Date
Fire	Finished	03/22/23	03/21/24	03/27/23

Inspection	Result	Inspected	Inspector	Comment
835 Tanks (install/remove	Approved	03/27/23	KAHaggas	being decommissioned in place, LEL at 0, O2 low but ok since no entry.
849 Final Fire	Approved	03/27/23	KAHaggas	being decommissioned in place, LEL at 0, O2 low but ok since no entry.

To request an inspection go to https://pdd.eugene-or.gov/BuildingPermits/InspectionLogin.
For more information call 541-682-5283.

FEES

Fees	Total Due	Amount Paid	Paid Date	Amount Due
Fire	$190.37	$190.37		$0.00
Tanks, Removal	$171.50	$171.50	03/22/23	$0.00
Fire Technology Admin Fee, Local	$3.43	$3.43	03/22/23	$0.00
Fire Admin, Local	$15.44	$15.44	03/22/23	$0.00
Fire Plan Check Admin	$0.00	$0.00		$0.00
Total All Fees	$190.37	$190.37		$0.00

Date: 4/7/2023

SEE REVERSE SIDE FOR EMERGENCY RESPONSE AND HAZARD WARNING

Delivery Invoice

0016145 DATE

BB+A Environmental. FROM BRANCH OR TERMINAL

William J. Welt, Inc.
P.O. Box 220
Cottage Grove OR 97424

PAY CODE: ☐ 01 CASH ☐ 02 CHARGE ☐ 03 EXTEND TERM

* CASH SALE DETAIL: CASH | CHECKS | CREDIT ORDERS | TOTAL

NUMBER OF PAYMENTS

COMMENCING MO. / YR.

METER READINGS	CLOSING	PROD. LINE	TEMP	CLOSING	PROD. LINE	TEMP	TYPE SALE ☐ 01 ☐ 03	CARRIER CODE / TRUCK NO.	FREIGHT ☐ PPD ☐ COL
	OPENING	CORRECTION FACTOR		OPENING	CORRECTION FACTOR		SHIP VIA	KEEP FULL STOR QTY.	LUB/GREASE QTY. (GAL)
PERMIT NO.		PURCHASE ORDER NO.		CONTRACT NO.			ORDER REG. NO.	SHIP REL. NO.	ITEM ORDER NO.

PROD. LINE	PRODUCT	OCT.	BULK OR PKG. SIZE	NO. OF PKGS.	QUANTITY	PRICE PER UNIT	AMOUNT
1	GASOLINE, 3, UN 1203, PG II (PREMIUM)						
2	GASOLINE, 3, UN 1203, PG II (UNLEADED)						
3	DIESEL FUEL, 3, NA 1993, PG III #1D #2D		B		5550		
4							
5	* pump out *						
	200 N. Monroe st.						
	Enya, ck.						

INDEPENDENT MARKETER OF 76 PRODUCTS

RETURNABLE BARRELS — SOLD (INCLUDED IN PRICE) LIST SEPARATELY ABOVE | ON DEPOSIT | DELV'D | LESS RET'D ( ) | = NET

DIESELS, HEATING OILS, & FUEL OILS — DELIVERED INTO (CHECK ONE) ☒ STORAGE ☐ FUEL TANK HIWAY EQUIPMENT ☐ FUEL TANK NON-HIWAY EQUIPMENT

IF USED AS MOTOR VEHICLE FUEL SHOW — PERMIT NO. | EMBLEM NO. | LICENSE NO.

BARREL DEPOSIT @

SALES TAXABLE DOLLARS

SALES OR USE TAX @ %

TOTAL →

DELIVERED BY

TIME AM PM

RECEIVED BY X

SEE REVERSE SIDE FOR BARREL TERMS AND TAX INFORMATION.
PLEASE PRESERVE. THIS IS THE ONLY INVOICE GOOD TO SUPPORT CLAIM FOR TAX REFUND.

FORM 3-2K21 (REV. 6-06)

FOR STATE OF HAWAII. COMPLETE MEASUREMASTER SEAL INFORMATION ON BACK OF ORIGINAL

GASOLINE REID VAPOR PRESSURE IS EQUAL TO OR LESS THAN THE APPLICABLE EPA AND STATE STANDARD.

ORIGINAL-CUSTOMER

Orrco™
The oil recycler.

Oil Re-Refining Company, Inc.

Invoice

Date	Invoice #
3/28/2023	455643

Bill To	Ship To
Bergeson Boese & Assoc. 32986 Roberts Ct Coburg, OR 97408	Bergeson Boese & Assoc. 200 N Monroe Eugene, OR 97402

Resell Expires	

Option	P.O. Number	Terms	Due Date	Ship Date	Bill of Lading	Account #
Email		30 Days Net	4/27/2023	3/27/2023		5936

Item Code	Description	U/M	Quantity	Price Each	Amount
Wastewater (em...	For recycling, Flash Point > 200 F. pH: HCDT/CDT test:	Gal	300	0.75	225.00
Hydro Clor D T...	Field test for chlorinates in aqueous materials	Ea	1	40.00	40.00
Truck & Gear L...	Per hour (includes stop fee, job time and travel time when applicable).	Ea	1	120.00	120.00

Total $385.00

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

We accept all major credit cards.

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

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

ATTACHMENT C

Push Probe Boring Logs

PROBE LOG

PROBE NO.: P1
PROJECT CODE: 4J35DEC.23UC
CADD FILE: 4J35DEC.23UC
PROJECT: 4J EDUCATION CENTER
LOCATION: 200 N. MONROE STREET
EUGENE, OREGON

TOTAL DEPTH: 20'
SURFACE ELEVATION:
PROBING METHOD: MACRO CORE
PROBED BY: BB&A ENVIRONMENTAL
LOGGED BY: MATTHEW LUCZAK
DATE COMPLETED: 03/29/23

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	MC RECOVERY	PID	H_2O LEVEL	LITHOLOGIC DESCRIPTION
0			0.0		ASPHALT
			0.0		GRAVEL (GM): crushed rock fill
		60%	0.0		Sandy SILT (ML): brown, fine–grained sand, few gravel pebbles
			0.0		
			0.0		
5			0.0		Sandy SILT (ML): brown, fine–grained sand
			0.0		SILT (ML): brown
		60%	0.0		
			0.0		
			0.0		
10			0.0		Sandy GRAVEL (GM): brown–light brown, coarse–medium grained sand
			0.0		
		100%	0.0		
			0.0		
	P1–14' P1–GW		0.0		
15			0.0		GRAVEL (GM): brown, cobbled, some coarse–grained brown sand
			0.0	WD	
		60%	0.0		
			0.0		
			0.0		
20			0.0		
25					

DEPTH (feet)	LITHOLOGY	PROBE ABANDONMENT
0		
5		
10		
15		
20		
25		

LEGEND

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

NOTES:

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

BB&A ENVIRONMENTAL
EUGENE OFFICE
32986 Roberts Court Coburg, Oregon 97408
ph. 541.484.9484 fax. 541.484.4188
PORTLAND OFFICE
25195 SW Parkway Ave., Suite 207
Wilsonville, Oregon 97070
ph. 503.570.9484 fax. 503.570.0384

PROBE LOG

PROBE NO.: P2
PROJECT CODE: 4J35DEC.23UC
CADD FILE: 4J35DEC.23UC
PROJECT: 4J EDUCATION CENTER
LOCATION: 200 N. MONROE STREET
EUGENE, OREGON

TOTAL DEPTH: 15'
SURFACE ELEVATION:
PROBING METHOD: MACRO CORE
PROBED BY: BB&A ENVIRONMENTAL
LOGGED BY: MATTHEW LUCZAK
DATE COMPLETED: 03/29/23

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	MC RECOVERY	PID	H_2O LEVEL	LITHOLOGIC DESCRIPTION
0			0.0		ASPHALT
			0.0		GRAVEL (GM): crushed rock fill
			0.0		Sandy SILT (ML): brown, fine-grained sand, few gravel pebbles
		60%	0.0		
			0.0		
			0.0		
5			0.0		Sandy SILT (ML): brown, fine-grained sand
			0.0		SILT (ML): brown
		60%	0.0		
			0.0		
			0.0		
10			0.0		Sandy GRAVEL (GM): brown-light brown, coarse-medium grained sand
			0.0		
		100%	0.0		
			0.0		
	P2-14'		0.0		
15			0.0		
20					
25					

LEGEND

BLS Below Land Surface

PID Photo Ionization Detector, Units in parts per million (ppm)

NOTES:

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

BB&A ENVIRONMENTAL

EUGENE OFFICE
32986 Roberts Court Coburg, Oregon 97408
ph. 541.484.9484 fax. 541.484.4188

PORTLAND OFFICE
25195 SW Parkway Ave., Suite 207
Wilsonville, Oregon 97070
ph. 503.570.9484 fax. 503.570.0384

ATTACHMENT D

Chain-of-Custody Forms and Apex Laboratory Analytical Data Reports

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

ANALYTICAL REPORT

Thursday, April 6, 2023

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

RE: A3C1091 - 4J Ed Center HOT - 4J35DEC.23UC

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 A3C1091, which was received by the laboratory on 3/29/2023 at 2:00:00PM.

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

(See Cooler Receipt Form for details)

Default Cooler	4.2 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

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

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: 4J Ed Center HOT	
PO Box 40187	Project Number: 4J35DEC.23UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A3C1091 - 04 06 23 1545

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
4J35-P1-14'	A3C1091-01	Soil	03/29/23 08:15	03/29/23 14:00
4J35-P1-GW	A3C1091-02	Water	03/29/23 09:00	03/29/23 14:00
4J35-P2-14'	A3C1091-03	Soil	03/29/23 08:45	03/29/23 14:00

Apex Laboratories

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

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: 4J Ed Center HOT	
PO Box 40187	Project Number: 4J35DEC.23UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A3C1091 - 04 06 23 1545

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
4J35-P1-14' (A3C1091-01)				**Matrix: Soil**		**Batch: 23C1266**		
Diesel	ND	---	21.0	mg/kg dry	1	04/01/23 03:33	NWTPH-Dx	
Oil	ND	---	41.9	mg/kg dry	1	04/01/23 03:33	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 80 %*		*Limits: 50-150 %*	*1*	*04/01/23 03:33*	*NWTPH-Dx*	
4J35-P1-GW (A3C1091-02)				**Matrix: Water**		**Batch: 23C1223**		
Diesel	ND	---	0.0792	mg/L	1	03/31/23 05:01	NWTPH-Dx LL	
Oil	ND	---	0.158	mg/L	1	03/31/23 05:01	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 84 %*		*Limits: 50-150 %*	*1*	*03/31/23 05:01*	*NWTPH-Dx LL*	
4J35-P2-14' (A3C1091-03)				**Matrix: Soil**		**Batch: 23C1266**		
Diesel	ND	---	23.1	mg/kg dry	1	04/01/23 03:53	NWTPH-Dx	
Oil	ND	---	46.2	mg/kg dry	1	04/01/23 03:53	NWTPH-Dx	Q-37
Surrogate: o-Terphenyl (Surr)		*Recovery: 81 %*		*Limits: 50-150 %*	*1*	*04/01/23 03:53*	*NWTPH-Dx*	

Apex Laboratories

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

Darrell Auvil, Client Services Manager

APEX LABORATORIES

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

ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: **4J Ed Center HOT**	
PO Box 40187	Project Number: **4J35DEC.23UC**	**Report ID:**
Eugene, OR 97404	Project Manager: **Matthew Luczak**	**A3C1091 - 04 06 23 1545**

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
4J35-P1-14' (A3C1091-01)				**Matrix: Soil**		**Batch: 23C1203**		
Benzene	ND	---	9.29	ug/kg dry	50	03/30/23 18:45	5035A/8260D	
Toluene	ND	---	46.5	ug/kg dry	50	03/30/23 18:45	5035A/8260D	
Ethylbenzene	ND	---	23.2	ug/kg dry	50	03/30/23 18:45	5035A/8260D	
Xylenes, total	ND	---	69.7	ug/kg dry	50	03/30/23 18:45	5035A/8260D	
Naphthalene	ND	---	92.9	ug/kg dry	50	03/30/23 18:45	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*113 %*	*Limits: 80-120 %*	*1*	*03/30/23 18:45*	*5035A/8260D*	
Toluene-d8 (Surr)			*96 %*	*80-120 %*	*1*	*03/30/23 18:45*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*94 %*	*79-120 %*	*1*	*03/30/23 18:45*	*5035A/8260D*	
4J35-P1-GW (A3C1091-02)				**Matrix: Water**		**Batch: 23C1206**		
Benzene	ND	---	0.200	ug/L	1	03/30/23 18:52	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	03/30/23 18:52	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	03/30/23 18:52	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	03/30/23 18:52	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	03/30/23 18:52	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*97 %*	*Limits: 80-120 %*	*1*	*03/30/23 18:52*	*EPA 8260D*	
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*03/30/23 18:52*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*107 %*	*80-120 %*	*1*	*03/30/23 18:52*	*EPA 8260D*	
4J35-P2-14' (A3C1091-03)				**Matrix: Soil**		**Batch: 23C1203**		
Benzene	ND	---	12.0	ug/kg dry	50	03/30/23 19:10	5035A/8260D	
Toluene	ND	---	59.8	ug/kg dry	50	03/30/23 19:10	5035A/8260D	
Ethylbenzene	ND	---	29.9	ug/kg dry	50	03/30/23 19:10	5035A/8260D	
Xylenes, total	ND	---	89.7	ug/kg dry	50	03/30/23 19:10	5035A/8260D	
Naphthalene	ND	---	120	ug/kg dry	50	03/30/23 19:10	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*111 %*	*Limits: 80-120 %*	*1*	*03/30/23 19:10*	*5035A/8260D*	
Toluene-d8 (Surr)			*96 %*	*80-120 %*	*1*	*03/30/23 19:10*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*95 %*	*79-120 %*	*1*	*03/30/23 19:10*	*5035A/8260D*	

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: 4J Ed Center HOT	
PO Box 40187	Project Number: 4J35DEC.23UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A3C1091 - 04 06 23 1545

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
4J35-P1-14' (A3C1091-01)				**Matrix: Soil**		**Batch: 23C1189**		
% Solids	90.0	---	1.00	%	1	03/30/23 04:11	EPA 8000D	
4J35-P2-14' (A3C1091-03)				**Matrix: Soil**		**Batch: 23C1189**		
% Solids	83.2	---	1.00	%	1	03/30/23 04:11	EPA 8000D	

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ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: **4J Ed Center HOT**	
PO Box 40187	Project Number: **4J35DEC.23UC**	**Report ID:**
Eugene, OR 97404	Project Manager: **Matthew Luczak**	**A3C1091 - 04 06 23 1545**

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 23C1223 - EPA 3510C (Fuels/Acid Ext.)									**Water**			
Blank (23C1223-BLK1)			Prepared: 03/30/23 11:37		Analyzed: 03/30/23 22:16							
NWTPH-Dx LL												
Diesel	ND	---	0.0800	mg/L	1	---	---	---	---	---	---	
Oil	ND	---	0.160	mg/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 76 %*		*Limits: 50-150 %*		*Dilution: 1x*					
LCS (23C1223-BS1)			Prepared: 03/30/23 11:37		Analyzed: 03/30/23 22:36							
NWTPH-Dx LL												
Diesel	0.273	---	0.0800	mg/L	1	0.500	---	55	36 - 132%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 88 %*		*Limits: 50-150 %*		*Dilution: 1x*					
LCS Dup (23C1223-BSD1)			Prepared: 03/30/23 11:37		Analyzed: 03/30/23 22:56							**Q-19**
NWTPH-Dx LL												
Diesel	0.285	---	0.0800	mg/L	1	0.500	---	57	36 - 132%	5	30%	
Surr: o-Terphenyl (Surr)			*Recovery: 100 %*		*Limits: 50-150 %*		*Dilution: 1x*					
Batch 23C1266 - EPA 3546 (Fuels)									**Soil**			
Blank (23C1266-BLK1)			Prepared: 03/31/23 10:43		Analyzed: 04/01/23 01:42							
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Mineral Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 104 %*		*Limits: 50-150 %*		*Dilution: 1x*					
LCS (23C1266-BS1)			Prepared: 03/31/23 10:43		Analyzed: 04/01/23 02:06							
NWTPH-Dx												
Diesel	113	---	20.0	mg/kg wet	1	125	---	91	38 - 132%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 100 %*		*Limits: 50-150 %*		*Dilution: 1x*					
Duplicate (23C1266-DUP2)			Prepared: 03/31/23 10:43		Analyzed: 04/01/23 04:13							
QC Source Sample: 4J35-P2-14' (A3C1091-03)												
NWTPH-Dx												
Diesel	ND	---	24.0	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	**68.3**	---	47.9	mg/kg dry	1	---	41.4	---	---	**49**	**30%**	Q-05

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ANALYTICAL REPORT

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PO Box 40187	Project Number: 4J35DEC.23UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A3C1091 - 04 06 23 1545

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 23C1266 - EPA 3546 (Fuels)							**Soil**					
Duplicate (23C1266-DUP2)		Prepared: 03/31/23 10:43		Analyzed: 04/01/23 04:13								
QC Source Sample: 4J35-P2-14' (A3C1091-03)												
Mineral Oil	ND	---	47.9	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		*Recovery: 72 %*		*Limits: 50-150 %*			*Dilution: 1x*					

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ANALYTICAL REPORT

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Eugene, OR 97404	Project Manager: **Matthew Luczak**	**A3C1091 - 04 06 23 1545**

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 23C1203 - EPA 5035A							**Soil**					
Blank (23C1203-BLK1)		Prepared: 03/30/23 09:07		Analyzed: 03/30/23 11:06								
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: 111 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*97 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*97 %*		*79-120 %*			*"*					
LCS (23C1203-BS1)		Prepared: 03/30/23 09:07		Analyzed: 03/30/23 10:10								
5035A/8260D												
Benzene	1100	---	10.0	ug/kg wet	50	1000	---	110	80 - 120%	---	---	
Toluene	952	---	50.0	ug/kg wet	50	1000	---	95	80 - 120%	---	---	
Ethylbenzene	941	---	25.0	ug/kg wet	50	1000	---	94	80 - 120%	---	---	
Xylenes, total	2780	---	75.0	ug/kg wet	50	3000	---	93	80 - 120%	---	---	
Naphthalene	796	---	100	ug/kg wet	50	1000	---	80	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 108 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*98 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*95 %*		*79-120 %*			*"*					
Matrix Spike (23C1203-MS1)		Prepared: 03/29/23 08:45		Analyzed: 03/30/23 19:36								
QC Source Sample: 4J35-P2-14' (A3C1091-03)												
5035A/8260D												
Benzene	1470	---	12.0	ug/kg dry	50	1200	ND	**123**	**77 - 121%**	---	---	Q-01
Toluene	1240	---	59.8	ug/kg dry	50	1200	ND	103	77 - 121%	---	---	
Ethylbenzene	1250	---	29.9	ug/kg dry	50	1200	ND	104	76 - 122%	---	---	
Xylenes, total	3620	---	89.7	ug/kg dry	50	3590	ND	101	78 - 124%	---	---	
Naphthalene	965	---	120	ug/kg dry	50	1200	ND	81	62 - 129%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 111 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*98 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*92 %*		*79-120 %*			*"*					

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ANALYTICAL REPORT

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PO Box 40187	Project Number: 4J35DEC.23UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A3C1091 - 04 06 23 1545

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 23C1206 - EPA 5030C							**Water**					
Blank (23C1206-BLK1)		Prepared: 03/30/23 11:00 Analyzed: 03/30/23 12:06										
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 96 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*103 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*108 %*		*80-120 %*			*"*					
LCS (23C1206-BS1)		Prepared: 03/30/23 11:00 Analyzed: 03/30/23 11:07										
EPA 8260D												
Benzene	21.0	---	0.200	ug/L	1	20.0	---	105	80 - 120%	---	---	
Toluene	21.1	---	1.00	ug/L	1	20.0	---	106	80 - 120%	---	---	
Ethylbenzene	23.7	---	0.500	ug/L	1	20.0	---	118	80 - 120%	---	---	
Xylenes, total	70.2	---	1.50	ug/L	1	60.0	---	117	80 - 120%	---	---	
Naphthalene	19.8	---	2.00	ug/L	1	20.0	---	99	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 96 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*100 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*95 %*		*80-120 %*			*"*					

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ANALYTICAL REPORT

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Eugene, OR 97404	Project Manager: Matthew Luczak	A3C1091 - 04 06 23 1545

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 23C1189 - Total Solids (Dry Weight)							**Soil**					

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

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SAMPLE PREPARATION INFORMATION

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: 23C1223							
A3C1091-02	Water	NWTPH-Dx LL	03/29/23 09:00	03/30/23 14:05	1010mL/2mL	1000mL/2mL	0.99

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C1266							
A3C1091-01	Soil	NWTPH-Dx	03/29/23 08:15	03/31/23 10:43	10.61g/5mL	10g/5mL	0.94
A3C1091-03	Soil	NWTPH-Dx	03/29/23 08:45	03/31/23 10:43	10.39g/5mL	10g/5mL	0.96

BTEX+N Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C1206							
A3C1091-02	Water	EPA 8260D	03/29/23 09:00	03/30/23 11:47	5mL/5mL	5mL/5mL	1.00

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C1203							
A3C1091-01	Soil	5035A/8260D	03/29/23 08:15	03/29/23 08:15	6.8g/5mL	5g/5mL	0.74
A3C1091-03	Soil	5035A/8260D	03/29/23 08:45	03/29/23 08:45	6.04g/5mL	5g/5mL	0.83

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C1189							
A3C1091-01	Soil	EPA 8000D	03/29/23 08:15	03/29/23 20:31			NA
A3C1091-03	Soil	EPA 8000D	03/29/23 08:45	03/29/23 20:31			NA

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QUALIFIER DEFINITIONS

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

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Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-37	Sample is non-homogenous. Sample results are less than MRL and duplicate results have hits greater than the MRL. See Duplicate results.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported.

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

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

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

QC Source:

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

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

Miscellaneous Notes:

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

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

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-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.

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

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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:

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Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

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ANALYTICAL REPORT

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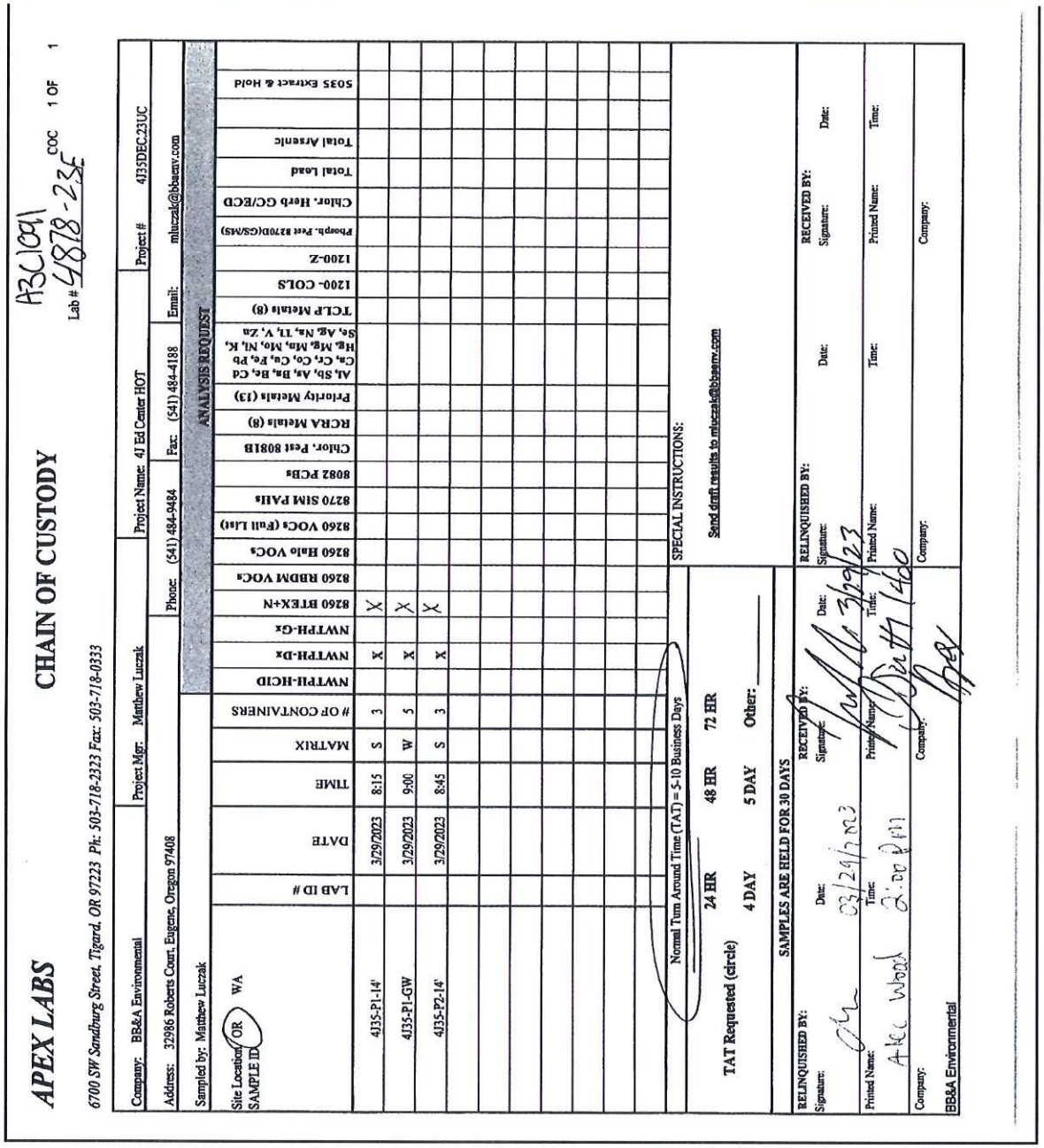
Report ID:
A3C1091 - 04 06 23 1545



APEX LABS

CHAIN OF CUSTODY

A3C1091
Lab # 4878-23 COC 1 OF 1

6700 SW Sandburg Street, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: BB&A Environmental | Project Mgr: Matthew Luczak | Project Name: 4J Ed Center HOT | Project #: 4J35DEC.23UC
Address: 32986 Roberts Court, Eugene, Oregon 97408 | Phone: (541) 484-9484 | Fax: (541) 484-4188 | Email: mluczak@bbaenv.com
Sampled by: Matthew Luczak

ANALYSIS REQUEST

Site Location: OR WA / SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTFH-HCID	NWTFH-Dx	NWTFH-Gx	8260 BTEX+N	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs (Full List)	8270 SIM PAHs	8082 PCBs	Chlor. Pest 8081B	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	TCLP Metals (8)	1200- COLS	1200-Z	Phosph. Pest 8270D(GS/MS)	Chlor. Herb GC/ECD	Total Lead	Total Arsenic		5035 Extract & Hold
4J35-P1-14"		3/29/2023	8:15	S	3		X		X																		
4J35-P1-GW		3/29/2023	9:00	W	5		X		X																		
4J35-P2-14"		3/29/2023	8:45	S	3		X		X																		

SPECIAL INSTRUCTIONS:
Send draft results to mluczak@bbaenv.com

Normal Turn Around Time (TAT) = 5-10 Business Days

TAT Requested (circle)
24 HR 48 HR 72 HR
4 DAY 5 DAY Other: ____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	Date:	Time:	RECEIVED BY:	Date:	Time:
Signature:	3/29/23	3:00 PM	Signature:		
Printed Name:	Alec Wood		Printed Name:		
Company:	BB&A Environmental		Company:		

RELINQUISHED BY:	Date:	Time:	RECEIVED BY:	Date:	Time:
Signature:	3/29/23		Signature:		
Printed Name:			Printed Name:		
Company:			Company:		

Apex Laboratories

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

Darrell Auvil, Client Services Manager

APEX LABORATORIES

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

ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: **4J Ed Center HOT**	
PO Box 40187	Project Number: **4J35DEC.23UC**	**Report ID:**
Eugene, OR 97404	Project Manager: **Matthew Luczak**	**A3C1091 - 04 06 23 1545**

APEX LABS COOLER RECEIPT FORM

Client: BB&A Environmental Element WO#: A3C1091 avail 4/07/23

Project/Project #: 4J Ed Center HOT 4J35DEC.23UC

Delivery Info:

Date/time received: 3/29/23 @ 1400 By: JS

Delivered by: Apex__ Client X ESS__ FedEx__ UPS__ Radio__ Morgan__ SDS__ Evergreen__ Other__

Cooler Inspection Date/time inspected: 3/29/23 @ 1430 By: JS

Chain of Custody included? Yes X No____

Signed/dated by client? Yes X No____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	4.2						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	N						
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: 3/29/23 @ 17:20 By: RKP

All samples intact? Yes X No___ Comments:

Bottle labels/COCs agree? Yes X No___ Comments: No label or info on 1L unpreserved pdy, matched by matrix for P1-GW

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___ No X NA___

Comments 3/3 Sed

Water samples: pH checked: Yes X No___ NA___ pH appropriate? Yes X No___ NA___

Comments:

Additional information:

Labeled by: RKP Witness: AMW Cooler Inspected by: RKP

Form Y-003 R-00

ATTACHMENT E

Photo Log

Attachment E – Decommissioning Photo Log

4-J School District Education Center – 200 North Monroe Street Eugene, Oregon

Top: Photo of the location of UST prior to decommissioning fill pipe cover (white circle below the bay door), manhole for tank access (black circle above the fill pipe cover to the right), and vent pipe (on building wall left of the green bay door). Photo taken facing northeast.

Middle: Photo of the location of UST prior to decommissioning with fill pipe cover (white circle on the left), manhole for tank access (black circle on the right), and vent pipe (on building in the center). Photo taken facing north.

Bottom: Photo of the location of UST prior to decommissioning with fill pipe cover (white circle in the center), manhole for tank access (black circle at the bottom), and vent pipe (on building wall to the right). Photo taken facing west.

Attachment E – Decommissioning Photo Log

4-J School District Education Center – 200 North Monroe Street Eugene, Oregon

Top: Photo of the cut asphalt above the UST around and between the fill pipe (left) and manhole for tank access (right). Photo taken facing north.

Bottom Left: Photo of the fill pipe with the cover removed.

Bottom Right: Photo of the manhole for tank access.

Attachment E – Decommissioning Photo Log

4-J School District Education Center – 200 North Monroe Street Eugene, Oregon

Top Left: Photo showing the CDF materials being poured into the manhole for tank access and into the UST.

Top Right: Photo of the manhole for tank access after the tank was presumed to be full as CDF material had begun to overflow out of the manhole. Photo taken facing south.

Bottom Left: Photo of the work area after the CDF had cured and the area was resurfaced to match the surrounding surface. Photo taken facing north.

ATTACHMENT B

DEQ Approved UST Decommissioning Sampling Plan

IN-PLACE UST DECOMMISSIONING SAMPLING AND ANALYSIS PLAN

4-J Education Center
200 N Monroe Street
Eugene, Oregon 97402

Report Prepared For:

Kirk Gebb, 4J Facilities Program Manager
200 N Monroe Street
Eugene, OR 97402

Report Prepared By:

BB&A ENVIRONMENTAL
25195 SW Parkway Avenue, Suite 207
Wilsonville, OR 97070
(503) 570-9484

May 8, 2024

TABLE OF CONTENTS

FIGURES

IN-PLACE UST DECOMMISSIONING SAMPLING AND ANALYSIS PLAN

INTRODUCTION

This Sampling and Analysis Plan (SAP) outlines procedures that will be taken as part of on-going decommissioning activities associated with an 8,000-gallon Underground Storage Tank (UST) at the 4-J Ed Center located at 200 N Monroe Street in Eugene, Oregon (herein referred to as *subject property*). The facility is currently not identified in the Oregon Department of Environmental Quality (DEQ) UST database. A General Permit Registration Form to Decommission Existing Unregistered Tanks has been submitted along with this SAP. This SAP has been prepared in general accordance with Underground Storage Tank (UST) Regulations defined in Oregon Administrative Rule (OAR) 340-150.

The purpose of this SAP is to identify additional procedures requested by DEQ for sampling soil and groundwater during field activities conducted at the above-referenced site. Because field conditions (i.e. weather, and/or rising groundwater in the UST cavity) may change while conducting the above-referenced activities, modification to this SAP may occur in the field under the project manager's direction.

1.0 SITE INFORMATION

The project site is an education center and administrative services building at the address of 200 N Monroe Street in Eugene, Oregon. A Site Location Map, Site Aerial, and a Site Plan are provided as **Figures 1** through **3**. The *subject property* utilized one (1) 8,000-gallon cathodic protected steel UST used to store diesel fuel. The fuel lines were formerly connected to the manhole access within the vault near the east edge of the UST (see **Figure 3**). The UST is covered by asphalt, and approximately five (5) feet of soil and gravel backfill material.

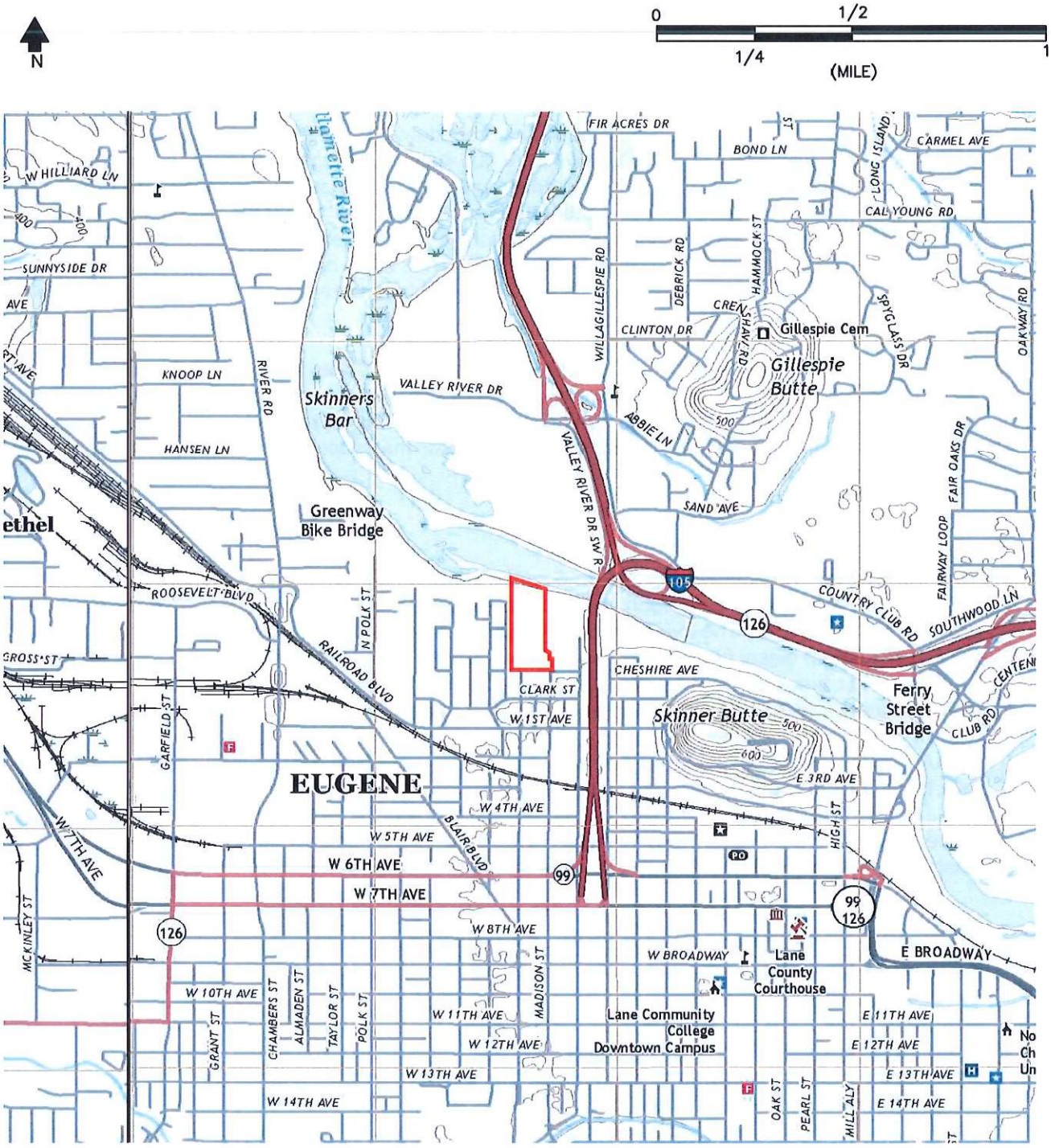
BB&A Environmental (BB&A) decommissioned the UST in-place in March 2023 as a heating oil tank based on information gathered from 4-J, and submitted relevant documents to DEQ on behalf of 4-J in April 2023. A Notice of Civil Penalty Assessment and Order letter, dated April 4, 2024, that 4-J received from DEQ stated that 4-J must perform a site assessment and additional sampling and analysis to ensure that the UST system was decommissioned in accordance with DEQ rules.

2.0 TANK PREPARATION AND IN-PLACE UST DECOMMISSIONING

A licensed UST Decommissioning Supervisor will provide project oversight of in-place UST decommissioning activities.

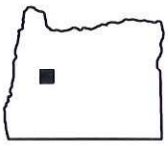
2.1 In-Place UST Decommissioning

BB&A Environmental decommissioned the UST in-place as a heating oil tank in March 2023, and submitted relevant documents to Oregon DEQ in April 2023. The UST was filled with control density fill material (CDF) fill (i.e., concrete) to capacity as per Oregon DEQ Heating Oil Tank (HOT) Decommissioning regulations.



SITE LOCATION

FIGURE 1



OREGON

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

SITE VICINITY MAP

4J EDUCATION CENTER, 200 N. MONROE STREET, EUGENE, OREGON

BB&A ENVIRONMENTAL

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Coburg, OR
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PORTLAND OFFICE
25195 SW Parkway Ave., #207
Wilsonville, OR
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www.BBAENV.COM

Job Code:	4J35DEC.23UC
CADD File:	4J35DEC.23UC
Scale:	AS SHOWN
Drawn:	KATHRYN DAVIS DESIGNS
Checked:	MATTHEW LUCZAK
Date:	03/20/23

N

0 500
250
(FEET)

PHOTO SOURCE: GOOGLE EARTH, July, 21, 2019.

SUBJECT PROPERTY

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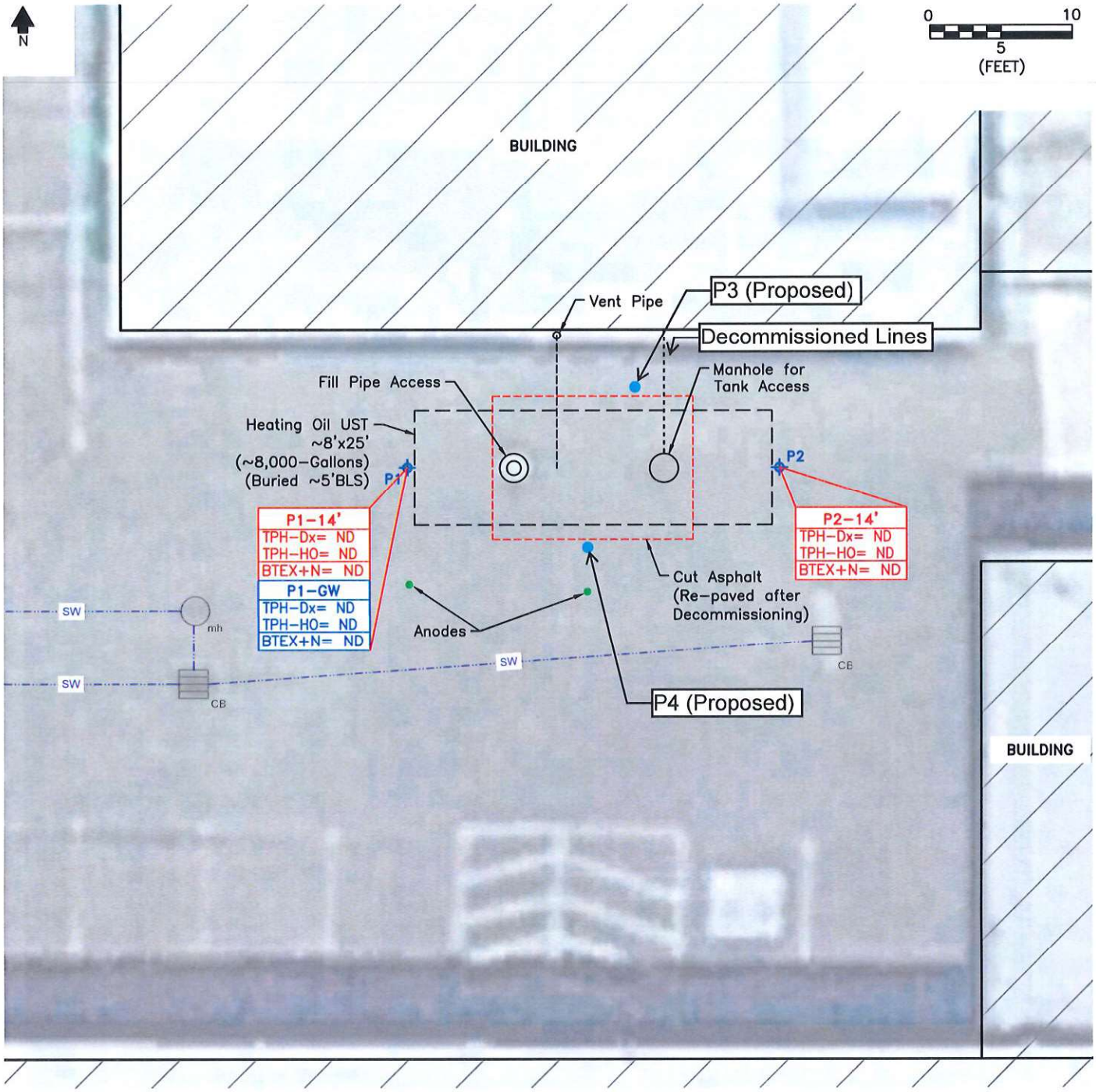
SITE AERIAL
4J EDUCATION CENTER
200 N. MONROE STREET, EUGENE, OREGON

FIGURE #: 2

PROJECT CODE:	DATE:	SCALE:	DRAWN:	CHECKED:
4J35DEC.23UC	03/20/23	AS SHOWN	K.D.DESIGNS	MATTHEW LUCZAK



LEGEND

P1-14'
TPH-Dx= ND
TPH-HO= ND
BTEX+N= ND

Diesel-Range Total Petroleum Hydrocarbons per Northwest Method NWTPH-Dx (Diesel) & NWTPH-HO (Heavy Oil); BTEX+N per EPA Method 8260D;
Soil units in parts per million (ppm)
Groundwater units in parts per billion (ppb);
ND= Not Detected

P1 — Push Probe Location and Identification Number

Building

CB — Catch Basin

SW — Stormwater Line

mh — Manhole

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SITE PLAN SHOWING SAMPLE LOCATIONS & ANALYTICAL DATA
4J EDUCATION CENTER
200 N. MONROE STREET, EUGENE, OREGON

FIGURE #: 3

PROJECT CODE:	DATE:	SCALE:	DRAWN:	CHECKED:
4J35DEC.23UC	04/07/23	1"=10'	K.D.DESIGNS	MATTHEW LUCZAK

3.0 UST DECOMMISSIONING SOIL SAMPLING

In March 2023, BB&A installed two (2) push probe borings adjacent the east (P2) and west (P1) walls of the UST. One (1) soil sample was collected from each push probe approximately one (1) foot below the bottom of the UST and within approximately six (6) inches of the wall of the UST. Additionally, one (1) groundwater sample was collected from a temporary well installed in push probe P1. All soil and groundwater samples were analyzed for diesel- and oil-range total petroleum hydrocarbons (TPH) by Northwest Method NWTPH-Dx, and benzene, toluene, ethylbenzene, xylenes (BTEX) compounds and naphthalene by Environmental Protection Agency (EPA) Method 8260. All contaminants were not detected above their respective laboratory reporting limits in all of the soil and groundwater samples.

Oregon DEQ requirements for in-place closure of USTs require a minimum of four (4) soil samples be collected, one (1) adjacent each wall of the UST. As two (2) soil samples have already been collected adjacent the east and west walls of the UST, two (2) additional soil samples will be collected adjacent the north and south walls of the UST. Additionally, one (1) soil sample must be collected for every 20 feet of piping. The locations of the samples already completed and their respective data, as well as the locations of the proposed additional sample locations, are shown on **Figure 3**.

3.1 Site Investigation/Push Probes - UST

A Site Plan of the area around the UST will be prepared. It is assumed that a total of two (2) push probes will be advanced adjacent to the north (P3) and south (P4) walls of the UST to a maximum depth of approximately 20 feet below land surface (BLS) to allow for the collection of soil samples for tank closure. The push probes will be completed utilizing truck mounted Geoprobe® tooling and sampling methodology. The soil sample tooling retrieves continuous cores of subsurface soil materials in plastic probe liners approximately five (5) feet in length. No additional soil materials are generated using this sampling technology (i.e., all soils are contained within the continuous plastic probe liners).

Upon completion of sample collection activities, the push probes will be backfilled with bentonite, natural earth materials, and finished to match the surrounding surface materials (e.g., asphalt, or concrete).

3.2 Site Investigation Soil Sampling and Analysis

During completion of probing activities, a detailed log will be recorded of geologic materials encountered in the push probes. Soil materials recovered in the continuous plastic probe liners will also be inspected for the presence of contamination by visual and olfactory observation, and field tested using an Organic Vapor Meter Photoionization Detector (PID). Soil samples will be collected in accordance with the sampling requirements given in OAR 340-150-180(5). Confirmation soil samples will be collected from each of the two (2) push-probe borings from soils approximately 12-24 inches beneath the approximate bottom of the UST. One (1) additional sample will be collected from push probe boring P3 at the approximate depth of the decommissioned product lines. If obvious contamination is encountered, the collection of additional soil samples for laboratory analysis may be required.

Soil samples will be transferred from the liners and placed in clean laboratory-supplied sample containers. The samples will be given a unique identification, logged onto a formal chain-of-custody form, placed on synthetic ice in a cooler, and delivered to Apex Laboratory in Tigard, Oregon, for analysis. All soil samples will be analyzed for hydrocarbon identification analysis by Northwest Method NWTPH-HCID. Any detections of gasoline-, diesel-, and/or oil-range TPH will be quantified by Northwest TPH Method NWTPH-Gx/Dx, respectively.

If groundwater is encountered, additional analysis for BTEX compounds will be conducted, and the collection of water samples will be required.

3.3 Groundwater Sampling and Laboratory Analysis - General Methodolgy

If encountered, a groundwater sample will be collected from one (1) of the push-probe borings using a peristaltic pump and clean disposable polyethylene tubing. Groundwater will be transferred directly into clean laboratory-supplied sample glassware with appropriate sample preservatives. The samples will be given a unique identification, logged onto a formal chain-of-custody form, placed on synthetic ice in a cooler, and delivered to Apex Laboratory in Tigard, Oregon, for hydrocarbon identification analysis by Northwest Method NWTPH-HCID. Any detections of gasoline-, diesel-, and/or oil-range TPHwill be quantified by Northwest TPH Method NWTPH-Gx/Dx, respectively. The groundwater sample will also be analyzed for BTEX compounds by EPA Method 8260. Additional analysis for polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270E SIM may be required based on results of the TPH and VOC analysis.

4.0 SAMPLE CONTAINERS, PRESERVATION, AND STORAGE

Soil samples will be collected by EPA Method 5035A, using new Terra Core® samplers, and laboratory-prepared 40 milliliter (ml) glass VOA vials with appropriate methanol preservative, and one (1) clean four (4) ounce glass jar. All soil sample containers will be prepared approximately 48 to 72 hours prior to actual use. New Terra Core® samplers will be used for each sample (i.e., no Terra Core® samplers will be re-used). Each soil sample will handled using new disposable nitrile gloves. Upon completing soil sample collection per EPA Method 5035A, each sample is given a unique identification, logged onto a formal chain-of-custody record, placed on synthetic ice in a cooler, and delivered to Apex Laboratories the same day, or early the next day for analysis.

5.0 QUALITY ASSURANCE / QUALITY CONTROL

The following quality assurance/quality control (QA/QC) procedures will be practiced throughout the project are described below.

Field Notes

Field notes will be utilized to document activities and conditions. Information concerning sample collection procedures, sample identification, test boring information, and any other pertinent information or observations will be recorded. A copy of the field notes will become part of the project file for future reference.

Sample Identification

A sample identification system will be used to identify each sample collected during the investigation as to the location, sample type, date collected, and analysis requested. This system provides a tracking system to allow for retrieval of information and to insure that each sample is uniquely numbered. Each sample identification shall consist of the following:

- Site Identification
- Date Sampled
- Sample Location

Sample Labels

Each sample container will be affixed with a label written in permanent water-proof marking pen. Each label will include:

- Date and time of collection

- Name of collector
- Analysis requested
- Unique sample identification
- Type of sample

Sample Shipment
All samples collected for analytical testing will be maintained in control by BB&A personnel and delivered to Apex Laboratories in Tigard, Oregon on the same day, or the following morning after sampling. During sample shipment, all preservation methodologies will be observed.

Chain Of Custody
A chain of custody record, documenting possession of samples from time of collection to laboratory analysis, will be maintained and accompanied every sampling round.

Field Quality Assurance/Quality Control Plan
Quality assurance/quality control (QA/QC) procedures will be practiced throughout the sampling event. The site geologist or project manager will supervise and implement the QA/QC procedures, including: use of clean nitrile gloves during collection of each soil sample, to prevent cross-contamination; sampling equipment will decontaminated between sampling per the method outlined below; and duplicate soil samples will be collected for potential laboratory QA/QC.

Decontamination Procedures for Equipment and Tools
The procedures for cleaning equipment and tools are described below:

- GeoProbe rods will be cleaned after each sample has been collected. Cleaning will include:

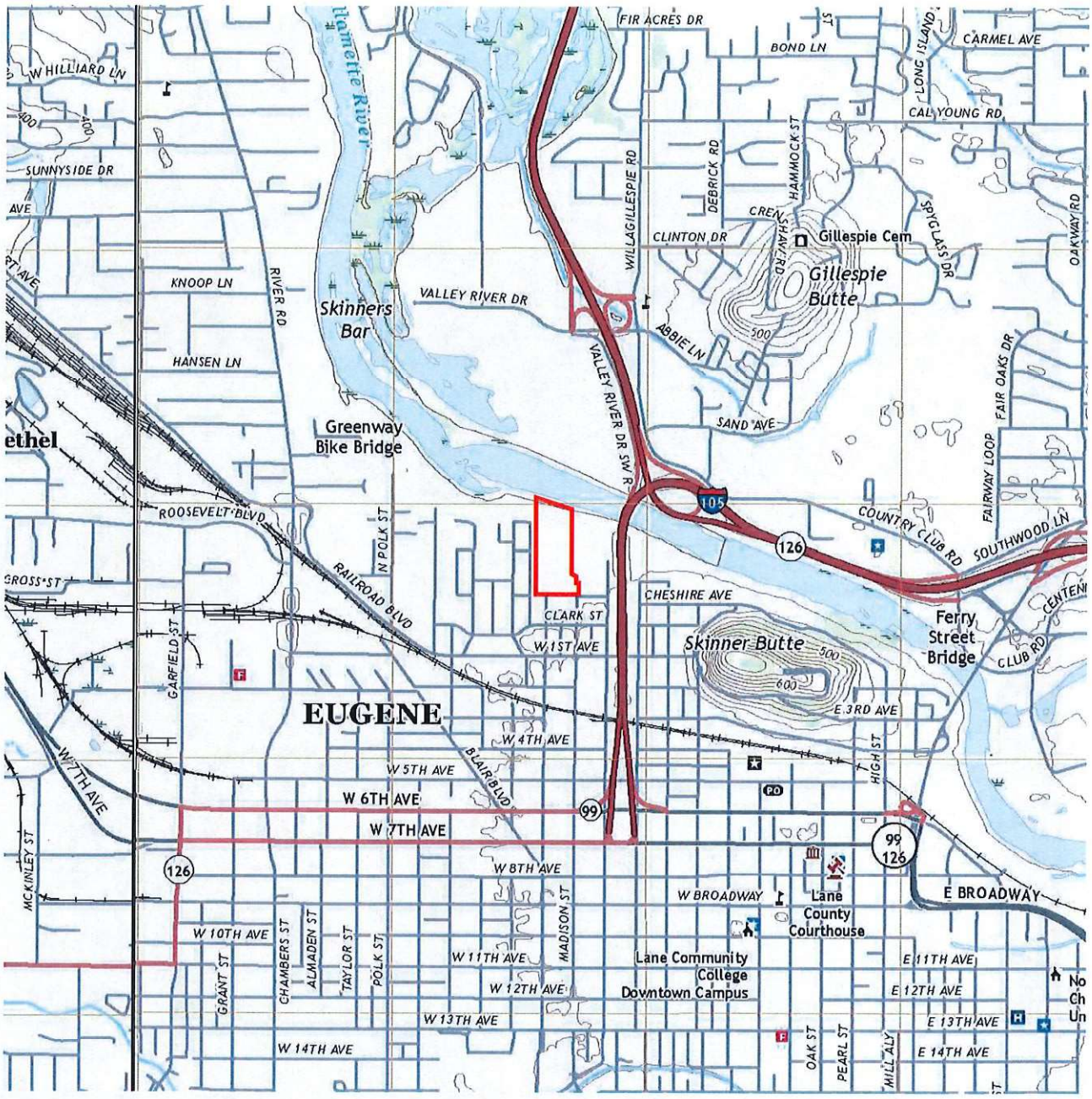
    1. Removing adhering soil particles by scrubbing with a hand brush and potable water.
    2. Scrubbing the equipment with a solution of potable water and alconox (trade name).
    3. Rinsing with potable water.
    4. Air dry

- If groundwater samples are to be collected, new, dedicated tubing will be used to develop, purge and sample the monitoring wells and/or temporary borings.

Laboratory Quality Assurance/Quality Control Plan
Samples collected will be delivered to Apex Laboratories in Tigard, Oregon. A QA/QC report from the laboratory will be provided in the final laboratory report, and included in the data files.

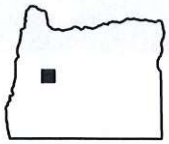
ATTACHMENT C

Site Figures



SITE LOCATION

FIGURE 1



OREGON

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

SITE VICINITY MAP

4J EDUCATION CENTER, 200 N. MONROE STREET, EUGENE, OREGON

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Job Code:	4J35DEC.23UC
CADD File:	4J35DEC.23UC
Scale:	AS SHOWN
Drawn:	KATHRYN DAVIS DESIGNS
Checked:	MATTHEW LUCZAK
Date:	03/20/23

N

0 500
250
(FEET)

PHOTO SOURCE: GOOGLE EARTH, July, 21, 2019.

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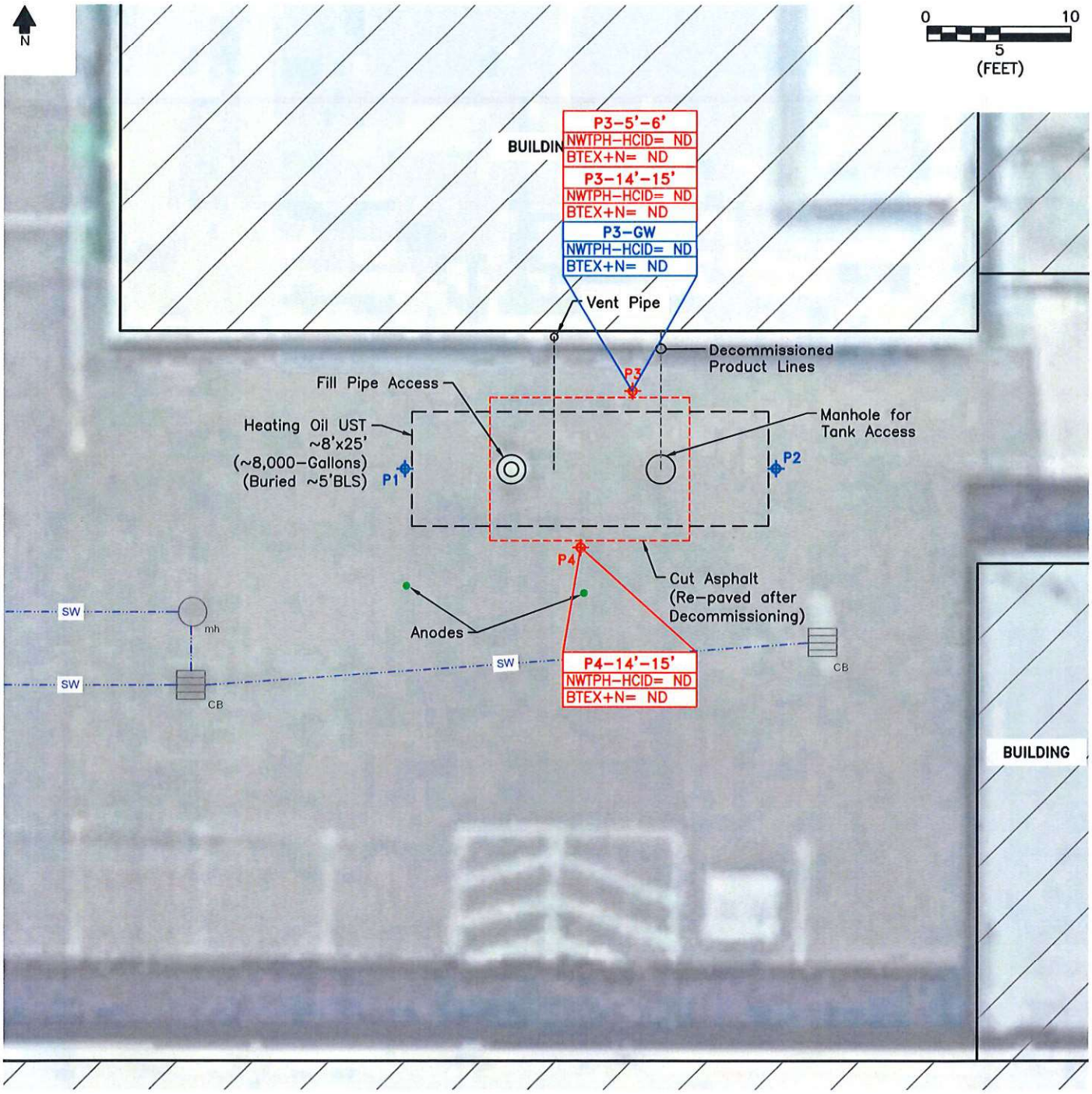
SITE AERIAL
4J EDUCATION CENTER
200 N. MONROE STREET, EUGENE, OREGON

FIGURE #: 2

PROJECT CODE:	DATE:	SCALE:	DRAWN:	CHECKED:
4J35DEC.23UC	03/20/23	AS SHOWN	K.D.DESIGNS	MATTHEW LUCZAK



LEGEND

P4–14'–15'
NWTPH–HCID= ND
BTEX+N= ND

Total Petroleum Hydrocarbons per Northwest Method NWTPH–HCID (TPH–Gx (Gasoline), TPH–Dx (Diesel), TPH–Heavy Oil)); BTEX+N per EPA Method 8260D; Soil units in parts per million (ppm) Groundwater units in parts per billion (ppb); ND= Not Detected

P1 Push Probe Location and Identification Number (By BB&A 5/10/24)

P1 Push Probe Location and Identification Number (By BB&A 3/29/23)

Building

CB Catch Basin

SW Stormwater Line

mh Manhole

BB&A ENVIRONMENTAL

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SITE PLAN SHOWING SAMPLE LOCATIONS & ANALYTICAL DATA
4J EDUCATION CENTER
200 N. MONROE STREET, EUGENE, OREGON

FIGURE #: 3

PROJECT CODE:	DATE:	SCALE:	DRAWN:	CHECKED:
4J35DEC.23UC	05/20/24	1"=10'	K.D.DESIGNS	MATTHEW LUCZAK

ATTACHMENT D

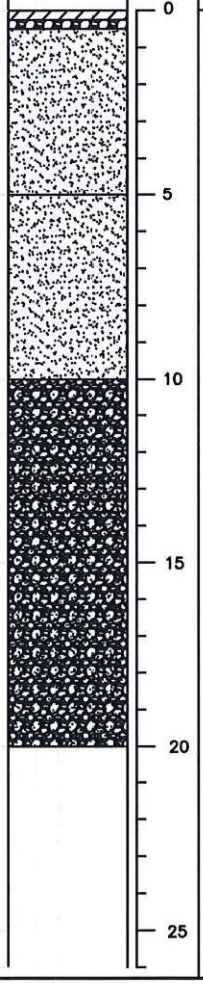
Push Probe Boring Logs

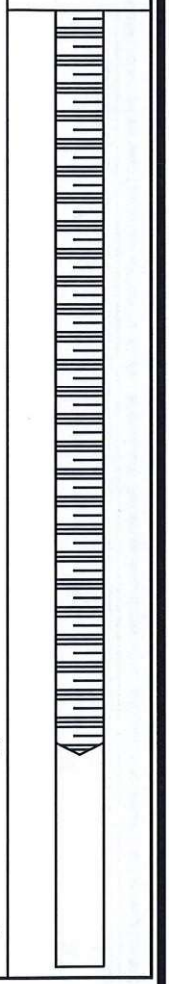
PROBE LOG

PROBE NO.: P3
PROJECT CODE: 4J35DEC.23UC
CADD FILE: 4J35DEC.23UC
PROJECT: 4J EDUCATION CENTER
LOCATION: 200 N. MONROE STREET
EUGENE, OREGON

TOTAL DEPTH: 20'
SURFACE ELEVATION:
PROBING METHOD: MACRO CORE
PROBED BY: BB&A ENVIRONMENTAL
LOGGED BY: MATTHEW LUCZAK
DATE COMPLETED: 05/10/23

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	MC RECOVERY	PID	H_2O LEVEL	LITHOLOGIC DESCRIPTION
0			0.0		ASPHALT
			0.0		GRAVEL (GM): crushed rock fill
			0.0		Sandy SILT (ML): brown, fine-grained sand, few gravel
		100%	0.0		
			0.0		
			0.0		
5	P3-5'-6'		0.0		Sandy SILT (ML): brown, fine-grained sand
			0.0		
		100%	0.0		
			0.0		
			0.0		
10			0.0		Sandy GRAVEL (GM): brown-light brown, coarse-medium grained sand
		100%	0.0		
			0.0		
			0.0		
	P3-14'-15'		0.0		
15			0.0	WD	
	P3-GW	100%	0.0	▼	wet @ 17' BLS
			0.0		
			0.0		
20			0.0		
25					





LEGEND

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

NOTES: DTW in Temp Well 17.1'

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

BB&A ENVIRONMENTAL

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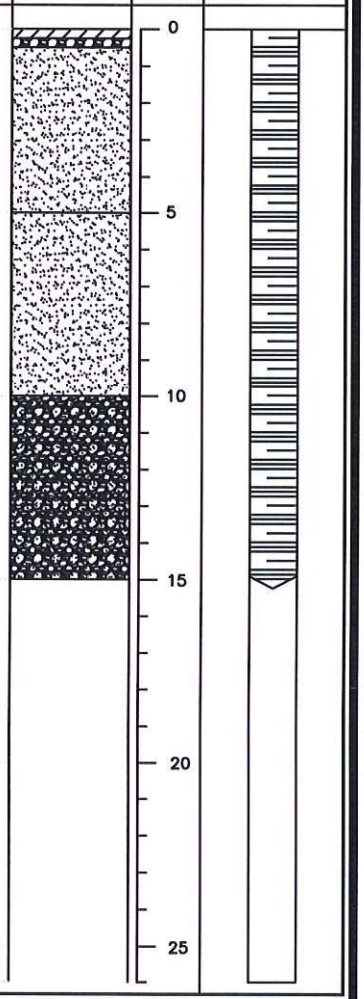
Wilsonville, Oregon 97070
ph. 503.570.9484 fax. 503.570.0384

PROBE LOG

PROBE NO.: P4
PROJECT CODE: 4J35DEC.23UC
CADD FILE: 4J35DEC.23UC
PROJECT: 4J EDUCATION CENTER
LOCATION: 200 N. MONROE STREET
EUGENE, OREGON

TOTAL DEPTH: 15'
SURFACE ELEVATION:
PROBING METHOD: MACRO CORE
PROBED BY: BB&A ENVIRONMENTAL
LOGGED BY: MATTHEW LUCZAK
DATE COMPLETED: 05/10/23

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	MC RECOVERY	PID	H_2O LEVEL	LITHOLOGIC DESCRIPTION
0			0.0		ASPHALT
			0.0		GRAVEL (GM): crushed rock fill
		100%	0.0		Sandy SILT (ML): brown, fine-grained sand, few gravel
			0.0		
			0.0		
5			0.0		Sandy SILT (ML): brown, fine-grained sand
			0.0		
		100%	0.0		
			0.0		
			0.0		
10			0.0		Sandy GRAVEL (GM): brown-light brown, coarse-medium grained sand
			0.0		
		100%	0.0		
			0.0		
			0.0		
	P4-14'-15'		0.0		
15					
20					
25					



LEGEND

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

NOTES:

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

BB&A ENVIRONMENTAL
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32986 Roberts Court Coburg, Oregon 97408
ph. 541.484.9484 fax. 541.484.4188
PORTLAND OFFICE
25195 SW Parkway Ave., Suite 207
Wilsonville, Oregon 97070
ph. 503.570.9484 fax. 503.570.0384

ATTACHMENT E

Laboratory Analytical Report and Chain-of-Custody Documents

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

ANALYTICAL REPORT

Friday, May 17, 2024

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

RE: A4E1130 - 4J Ed Center HOT - 4J35DEC.23UC

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 A4E1130, which was received by the laboratory on 5/10/2024 at 11:05:00AM.

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

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

Cooler Receipt Information
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 2.9 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: 4J Ed Center HOT	
PO Box 40187	Project Number: 4J35DEC.23UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A4E1130 - 05 17 24 1544

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
4J35-P3-5'-6'	A4E1130-01	Soil	05/10/24 08:15	05/10/24 11:05
4J35-P3-14'-15'	A4E1130-02	Soil	05/10/24 08:25	05/10/24 11:05
4J35-P4-14'-15'	A4E1130-03	Soil	05/10/24 08:45	05/10/24 11:05
4J35-P3-GW	A4E1130-04	Water	05/10/24 08:35	05/10/24 11:05

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Darrell Auvil, Client Services Manager

APEX LABORATORIES

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: **4J Ed Center HOT**	
PO Box 40187	Project Number: **4J35DEC.23UC**	**Report ID:**
Eugene, OR 97404	Project Manager: **Matthew Luczak**	**A4E1130 - 05 17 24 1544**

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
4J35-P3-5'-6' (A4E1130-01)				**Matrix: Soil**		**Batch: 24E0427**		
Gasoline Range Organics	ND	---	23.6	mg/kg dry	1	05/14/24 23:50	NWTPH-HCID	
Diesel Range Organics	ND	---	59.0	mg/kg dry	1	05/14/24 23:50	NWTPH-HCID	
Oil Range Organics	ND	---	118	mg/kg dry	1	05/14/24 23:50	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*108 %*	*Limits: 50-150 %*	*1*	*05/14/24 23:50*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*109 %*	*50-150 %*	*1*	*05/14/24 23:50*	*NWTPH-HCID*	
4J35-P3-14'-15' (A4E1130-02)				**Matrix: Soil**		**Batch: 24E0427**		
Gasoline Range Organics	ND	---	21.6	mg/kg dry	1	05/14/24 20:02	NWTPH-HCID	
Diesel Range Organics	ND	---	54.1	mg/kg dry	1	05/14/24 20:02	NWTPH-HCID	
Oil Range Organics	ND	---	108	mg/kg dry	1	05/14/24 20:02	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*98 %*	*Limits: 50-150 %*	*1*	*05/14/24 20:02*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*97 %*	*50-150 %*	*1*	*05/14/24 20:02*	*NWTPH-HCID*	
4J35-P4-14'-15' (A4E1130-03)				**Matrix: Soil**		**Batch: 24E0427**		
Gasoline Range Organics	ND	---	21.2	mg/kg dry	1	05/14/24 20:23	NWTPH-HCID	
Diesel Range Organics	ND	---	53.1	mg/kg dry	1	05/14/24 20:23	NWTPH-HCID	
Oil Range Organics	ND	---	106	mg/kg dry	1	05/14/24 20:23	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*102 %*	*Limits: 50-150 %*	*1*	*05/14/24 20:23*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*102 %*	*50-150 %*	*1*	*05/14/24 20:23*	*NWTPH-HCID*	
4J35-P3-GW (A4E1130-04)				**Matrix: Water**		**Batch: 24E0504**		
Gasoline Range Organics	ND	---	0.0952	mg/L	1	05/15/24 10:11	NWTPH-HCID	
Diesel Range Organics	ND	---	0.238	mg/L	1	05/15/24 10:11	NWTPH-HCID	
Oil Range Organics	ND	---	0.238	mg/L	1	05/15/24 10:11	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*94 %*	*Limits: 50-150 %*	*1*	*05/15/24 10:11*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*37 %*	*10-120 %*	*1*	*05/15/24 10:11*	*NWTPH-HCID*	

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: 4J Ed Center HOT	
PO Box 40187	Project Number: 4J35DEC.23UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A4E1130 - 05 17 24 1544

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
4J35-P3-5'-6' (A4E1130-01)				**Matrix: Soil**		**Batch: 24E0594**		
Benzene	ND	---	13.6	ug/kg dry	50	05/16/24 15:27	5035A/8260D	
Toluene	ND	---	67.9	ug/kg dry	50	05/16/24 15:27	5035A/8260D	
Ethylbenzene	ND	---	33.9	ug/kg dry	50	05/16/24 15:27	5035A/8260D	
Xylenes, total	ND	---	102	ug/kg dry	50	05/16/24 15:27	5035A/8260D	
Naphthalene	ND	---	136	ug/kg dry	50	05/16/24 15:27	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*96 %*	*Limits: 80-120 %*	*1*	*05/16/24 15:27*	*5035A/8260D*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*05/16/24 15:27*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*100 %*	*79-120 %*	*1*	*05/16/24 15:27*	*5035A/8260D*	
4J35-P3-14'-15' (A4E1130-02)				**Matrix: Soil**		**Batch: 24E0594**		
Benzene	ND	---	12.4	ug/kg dry	50	05/16/24 15:55	5035A/8260D	
Toluene	ND	---	61.9	ug/kg dry	50	05/16/24 15:55	5035A/8260D	
Ethylbenzene	ND	---	30.9	ug/kg dry	50	05/16/24 15:55	5035A/8260D	
Xylenes, total	ND	---	92.8	ug/kg dry	50	05/16/24 15:55	5035A/8260D	
Naphthalene	ND	---	124	ug/kg dry	50	05/16/24 15:55	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*96 %*	*Limits: 80-120 %*	*1*	*05/16/24 15:55*	*5035A/8260D*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*05/16/24 15:55*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*99 %*	*79-120 %*	*1*	*05/16/24 15:55*	*5035A/8260D*	
4J35-P4-14'-15' (A4E1130-03)				**Matrix: Soil**		**Batch: 24E0594**		
Benzene	ND	---	11.7	ug/kg dry	50	05/16/24 16:22	5035A/8260D	
Toluene	ND	---	58.4	ug/kg dry	50	05/16/24 16:22	5035A/8260D	
Ethylbenzene	ND	---	29.2	ug/kg dry	50	05/16/24 16:22	5035A/8260D	
Xylenes, total	ND	---	87.7	ug/kg dry	50	05/16/24 16:22	5035A/8260D	
Naphthalene	ND	---	117	ug/kg dry	50	05/16/24 16:22	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*97 %*	*Limits: 80-120 %*	*1*	*05/16/24 16:22*	*5035A/8260D*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*05/16/24 16:22*	*5035A/8260D*	
4-Bromofluorobenzene (Surr)			*99 %*	*79-120 %*	*1*	*05/16/24 16:22*	*5035A/8260D*	
4J35-P3-GW (A4E1130-04)				**Matrix: Water**		**Batch: 24E0385**		
Benzene	ND	---	0.200	ug/L	1	05/10/24 16:34	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	05/10/24 16:34	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	05/10/24 16:34	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	05/10/24 16:34	EPA 8260D	
Naphthalene	ND	---	5.00	ug/L	1	05/10/24 16:34	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*107 %*	*Limits: 80-120 %*	*1*	*05/10/24 16:34*	*EPA 8260D*	

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Darrell Auvil, Client Services Manager

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ORELAP ID: OR100062

ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: 4J Ed Center HOT	
PO Box 40187	Project Number: 4J35DEC.23UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A4E1130 - 05 17 24 1544

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
4J35-P3-GW (A4E1130-04)				**Matrix: Water**		**Batch: 24E0385**		
Toluene-d8 (Surr)			*102 %*	*80-120 %*	*1*	*05/10/24 16:34*	*EPA 8260D*	
4-Bromofluorobenzene (Surr)			*96 %*	*80-120 %*	*1*	*05/10/24 16:34*	*EPA 8260D*	

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ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: 4J Ed Center HOT	
PO Box 40187	Project Number: 4J35DEC.23UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A4E1130 - 05 17 24 1544

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
4J35-P3-5'-6' (A4E1130-01)				**Matrix: Soil**		**Batch: 24E0436**		
% Solids	84.0	---	1.00	%	1	05/14/24 06:33	EPA 8000D	
4J35-P3-14'-15' (A4E1130-02)				**Matrix: Soil**		**Batch: 24E0436**		
% Solids	89.3	---	1.00	%	1	05/14/24 06:33	EPA 8000D	
4J35-P4-14'-15' (A4E1130-03)				**Matrix: Soil**		**Batch: 24E0436**		
% Solids	90.3	---	1.00	%	1	05/14/24 06:33	EPA 8000D	

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BB&A Environmental - Eugene	Project: **4J Ed Center HOT**	
PO Box 40187	Project Number: **4J35DEC.23UC**	**Report ID:**
Eugene, OR 97404	Project Manager: **Matthew Luczak**	**A4E1130 - 05 17 24 1544**

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 24E0427 - EPA 3546 (Fuels)							**Soil**					
Blank (24E0427-BLK1)			Prepared: 05/13/24 05:40 Analyzed: 05/14/24 19:42									
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: 91 %*	*Limits: 50-150 %*			*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*94 %*	*50-150 %*			*"*					
Duplicate (24E0427-DUP1)			Prepared: 05/13/24 05:40 Analyzed: 05/15/24 00:10									
QC Source Sample: 4J35-P3-5'-6' (A4E1130-01)												
NWTPH-HCID												
Gasoline Range Organics	ND	---	23.6	mg/kg dry	1	---	ND	---	---	---	30%	
Diesel Range Organics	ND	---	58.9	mg/kg dry	1	---	ND	---	---	---	30%	
Oil Range Organics	ND	---	118	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)			*Recovery: 100 %*	*Limits: 50-150 %*			*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*98 %*	*50-150 %*			*"*					
Batch 24E0504 - EPA 3510C (Fuels/Acid Ext.)							**Water**					
Blank (24E0504-BLK1)			Prepared: 05/14/24 11:50 Analyzed: 05/15/24 09:01									
NWTPH-HCID												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 101 %*	*Limits: 50-150 %*			*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*50 %*	*10-120 %*			*"*					

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

Apex Laboratories

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Darrell Auvil, Client Services Manager

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ORELAP ID: OR100062

ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: 4J Ed Center HOT	
PO Box 40187	Project Number: 4J35DEC.23UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A4E1130 - 05 17 24 1544

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 24E0385 - EPA 5030C							**Water**					
Blank (24E0385-BLK1)		Prepared: 05/10/24 07:46 Analyzed: 05/10/24 14:17										
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 104 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*102 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*98 %*		*80-120 %*			*"*					
LCS (24E0385-BS1)		Prepared: 05/10/24 07:46 Analyzed: 05/10/24 12:45										
EPA 8260D												
Benzene	20.8	---	0.200	ug/L	1	20.0	---	104	80 - 120%	---	---	
Toluene	20.6	---	1.00	ug/L	1	20.0	---	103	80 - 120%	---	---	
Ethylbenzene	21.9	---	0.500	ug/L	1	20.0	---	109	80 - 120%	---	---	
Xylenes, total	66.8	---	1.50	ug/L	1	60.0	---	111	80 - 120%	---	---	
Naphthalene	16.4	---	5.00	ug/L	1	20.0	---	82	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 99 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*100 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*91 %*		*80-120 %*			*"*					
Matrix Spike (24E0385-MS1)		Prepared: 05/10/24 07:46 Analyzed: 05/10/24 17:01										
QC Source Sample: 4J35-P3-GW (A4E1130-04)												
EPA 8260D												
Benzene	22.0	---	0.200	ug/L	1	20.0	ND	110	79 - 120%	---	---	
Toluene	21.6	---	1.00	ug/L	1	20.0	ND	108	80 - 121%	---	---	
Ethylbenzene	22.4	---	0.500	ug/L	1	20.0	ND	112	79 - 121%	---	---	
Xylenes, total	67.7	---	1.50	ug/L	1	60.0	ND	113	79 - 121%	---	---	
Naphthalene	16.4	---	5.00	ug/L	1	20.0	ND	82	61 - 128%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 100 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*99 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*89 %*		*80-120 %*			*"*					

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Darrell Auvil, Client Services Manager

APEX LABORATORIES

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: **4J Ed Center HOT**	
PO Box 40187	Project Number: **4J35DEC.23UC**	**Report ID:**
Eugene, OR 97404	Project Manager: **Matthew Luczak**	**A4E1130 - 05 17 24 1544**

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 24E0594 - EPA 5035A							**Soil**					
Blank (24E0594-BLK1)		Prepared: 05/16/24 08:00		Analyzed: 05/16/24 11:23								
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)		*101 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*100 %*		*79-120 %*			*"*					
LCS (24E0594-BS1)		Prepared: 05/16/24 08:00		Analyzed: 05/16/24 10:02								
5035A/8260D												
Benzene	985	---	10.0	ug/kg wet	50	1000	---	98	80 - 120%	---	---	
Toluene	982	---	50.0	ug/kg wet	50	1000	---	98	80 - 120%	---	---	
Ethylbenzene	1070	---	25.0	ug/kg wet	50	1000	---	107	80 - 120%	---	---	
Xylenes, total	3320	---	75.0	ug/kg wet	50	3000	---	111	80 - 120%	---	---	
Naphthalene	922	---	100	ug/kg wet	50	1000	---	92	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 96 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*101 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*99 %*		*79-120 %*			*"*					

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

Apex Laboratories

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: 4J Ed Center HOT	
PO Box 40187	Project Number: 4J35DEC.23UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A4E1130 - 05 17 24 1544

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 24E0436 - Total Solids (Dry Weight) - 2022							**Soil**					

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

Apex Laboratories

Darrell Auvil, Client Services Manager

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APEX LABORATORIES

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Eugene, OR 97404	Project Manager: **Matthew Luczak**	**A4E1130 - 05 17 24 1544**

SAMPLE PREPARATION INFORMATION

Hydrocarbon Identification Screen by NWTPH-HCID

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

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0504							
A4E1130-04	Water	NWTPH-HCID	05/10/24 08:35	05/14/24 11:50	1050mL/5mL	1000mL/5mL	0.95

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0427							
A4E1130-01	Soil	NWTPH-HCID	05/10/24 08:15	05/13/24 05:40	10.08g/10mL	10g/10mL	0.99
A4E1130-02	Soil	NWTPH-HCID	05/10/24 08:25	05/13/24 05:40	10.36g/10mL	10g/10mL	0.97
A4E1130-03	Soil	NWTPH-HCID	05/10/24 08:45	05/13/24 05:40	10.43g/10mL	10g/10mL	0.96

BTEX+N Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0385							
A4E1130-04	Water	EPA 8260D	05/10/24 08:35	05/10/24 14:21	5mL/5mL	5mL/5mL	1.00

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24E0594							
A4E1130-01	Soil	5035A/8260D	05/10/24 08:15	05/10/24 08:15	11.21g/11mL	5g/5mL	0.98
A4E1130-02	Soil	5035A/8260D	05/10/24 08:25	05/10/24 08:25	13.03g/13mL	5g/5mL	1.00
A4E1130-03	Soil	5035A/8260D	05/10/24 08:45	05/10/24 08:45	12.51g/12mL	5g/5mL	0.96

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: 24E0436							
A4E1130-01	Soil	EPA 8000D	05/10/24 08:15	05/13/24 08:36			NA
A4E1130-02	Soil	EPA 8000D	05/10/24 08:25	05/13/24 08:36			NA
A4E1130-03	Soil	EPA 8000D	05/10/24 08:45	05/13/24 08:36			NA

Apex Laboratories

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ANALYTICAL REPORT

BB&A Environmental - Eugene	Project: 4J Ed Center HOT	
PO Box 40187	Project Number: 4J35DEC.23UC	Report ID:
Eugene, OR 97404	Project Manager: Matthew Luczak	A4E1130 - 05 17 24 1544

QUALIFIER DEFINITIONS

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

There are No Qualifiers on Sample or QC Data for this report

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported.

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

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

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

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

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

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

QC Source:

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

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

Miscellaneous Notes:

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

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

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-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.

Apex Laboratories

Darrell Auvil, Client Services Manager

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BB&A Environmental - Eugene	Project: **4J Ed Center HOT**	
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Eugene, OR 97404	Project Manager: **Matthew Luczak**	**A4E1130 - 05 17 24 1544**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Benzofluoranthene Isomer Reporting:

Due to coelution on the analytical column, the Benzo(b)fluoranthene results represent the concentraton of both Benzo(b)fluoranthene and Benzo(j) fluoranthene. Calibration is based on the response of Benzo(b)fluoranthene, and the results represent the combined Benzo(b+j)fluoranthene(s).

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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

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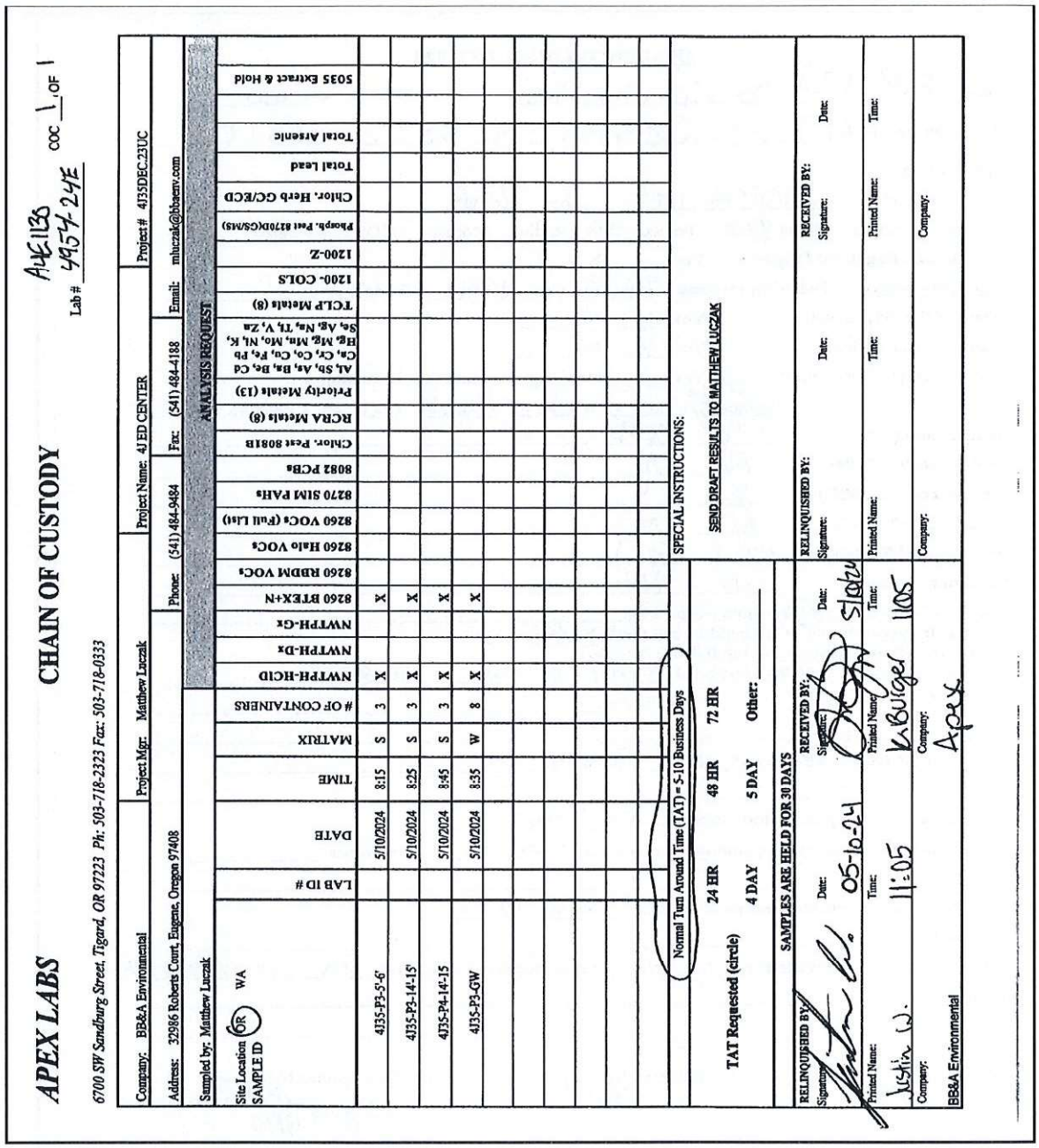

APEX LABS

CHAIN OF CUSTODY

A4E1130
Lab # 49574-24E

COC 1 OF 1

6700 SW Sandburg Street, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: BB&A Environmental | Project Mgr: Matthew Luczak | Project Name: 4J ED CENTER | Project # 4J35DEC.23UC
Address: 32986 Roberts Court, Eugene, Oregon 97408 | Phone: (541) 484-9484 | Fax: (541) 484-4188 | Email: mluczak@bbaenv.com
Sampled by: Matthew Luczak

ANALYSIS REQUEST

Site Location / SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX+N	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs (Full List)	8270 SIM PAHs	8082 PCBs	Chlor. Pest 8081B	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd Ca, Cr, Co, Cu, Fe, Pb Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn	TCLP Metals (8)	1200- COLS	1200-Z	Phosph. Pest 8270D(GS/MS)	Chlor. Herb GC/ECD	Total Lead	Total Arsenic		5035 Extract & Hold
4135-P3-5'-6'		5/10/2024	8:15	S	3	X			X																		
4135-P3-14-15'		5/10/2024	8:25	S	3	X			X																		
4135-P4-14-15		5/10/2024	8:45	S	3	X			X																		
4135-P3-GW		5/10/2024	8:35	W	8	X			X																		

Normal Turn Around Time (TAT) = 5-10 Business Days

TAT Requested (circle): 24 HR 48 HR 72 HR 4 DAY 5 DAY Other: ____

SAMPLES ARE HELD FOR 30 DAYS

SPECIAL INSTRUCTIONS:

SEND DRAFT RESULTS TO MATTHEW LUCZAK

RELINQUISHED BY:	Date:	Time:	RECEIVED BY:	Date:	Time:
Signature:	05-10-24	11:05	Signature:	5/10/24	1105
Printed Name: Justin J.			Printed Name: K Bulger		
Company: BB&A Environmental			Company: Apex		

RELINQUISHED BY:	Date:	Time:	RECEIVED BY:	Date:	Time:
Signature:			Signature:		
Printed Name:			Printed Name:		
Company:			Company:		

Apex Laboratories

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Darrell Auvil, Client Services Manager

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APEX LABS COOLER RECEIPT FORM

Client: BB&A Environmental Element WO#: A4E1130

Project/Project #: 4J Ed Center 4J35DEC.23UC

Delivery Info:

Date/time received: 5/10/24 @ 1105 By: VAB

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: 5/10/24 @ 1109 By: VAB

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)	1.9	2.9					
Custody seals? (Y/N)	N	N					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	N	N					
Ice type: (Gel/Real/Other)	Gel	Gel					
Condition (In/Out):	IN	IN					

ZAM 5/10

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: 5/10/24 @ 12:40 By: ZAM

All samples intact? Yes X No ___ Comments: ____

Bottle labels/COCs agree? Yes X No ___ Comments: ____

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 ___ No X NA ___

Comments ____

Water samples: pH checked: Yes X No ___ NA ___ pH appropriate? Yes X No ___ NA ___ pH ID: A23 D17

Comments: ____

Labeled by: ZAM Witness: AFW Cooler Inspected by: ZAM 5/10 AFW

Form Y-003 R-02

Apex Laboratories

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Darrell Auvil, Client Services Manager

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

July 17, 2024

Kirk Gebb
Eugene School District #4J
715 W 4th Ave
Eugene, OR 97402

RE: UST Decommissioning Status
Sheldon High School, Eugene
DEQ UST Facility ID No. 2069

Dear Kirk Gebb:

The Department of Environmental Quality (DEQ) has received and reviewed underground storage tank (UST) documents for closure of one decommissioned UST at facility #2069, Sheldon High School, located at 2455 Willakenzie Rd, in Eugene. 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 tank from active to closed, with a decommissioning date of December 28, 2023. DEQ files and database records show tank permit BJAEK as inactive and decommissioned. The documents received are on file at the DEQ Northwest Region 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