OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK PROGRAM

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

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

Name: Former Knecht's Auto Parts

Address: 1082 Highway 99N
Eugene, Oregon 97402

Phone: none

2. PERMITTEE (*Please Print*)

Name: Kdirt LLC

Address: 3400 Main Street
Springfield, Oregon 97478-5814

Phone: 541-913-0251

DEQ General Permit Operating Certificate Number: Facility ID 1700034

Work To Be Performed By: Bergeson-Boese & Associates Inc (Permittee, Tank Owner, Property Owner or Licensed Service Provider)

License # 10974 (Service Provider)

Phone: 541-484-9484 ext 116 Mobile Phone: 503-572-0079

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

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

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

Date decommissioning is scheduled to begin: 7/2/24

			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
K-1	12751	7500	Gas		☐	☑	☐	☐	☑
K-2	12751	5000	Gas		☐	☑	☐	☐	☑
K-3	12751	5000	Gas		☐	☑	☐	☐	☑
K-4	12751	650	Kerosene		☐	☑	☐	☐	☑
					☐	☐	☐	☐	☐

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

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

Permittee: Karrie Knecht (*Please Print*)

Permittee: Karrie Knecht (*Signature*) Date: 7/2/2024

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: 12751

FACILITY NAME: Former Knechts Auto Parts

FACILITY ADDRESS: 1082 Highway 99N Eugene, Oregon 97402

PERMITTEE PHONE: 541-913-0251 DATE: 8/27/2024

B. WORK PERFORMED BY:

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

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

Name: Bergeson-Boese & Associates, Inc.

Telephone: 541-484-9484

DEQ Decommissioning Supervisor's License #: 27501

Name: Matthew Luczak

Telephone: 541-484-9484

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

Name: _____

Telephone: _____

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

Name: _____

Telephone: _____

C. DATES:

Decommissioning/Change-in-Service Notice - Date Submitted: 7/2/2024 (30 days before work starts).

Work Start Telephone Notice - Number issued by DEQ: 20-3D-24-024 (3 working days before work starts).

DEQ Person Notified: Dave Pardue

Date Work Started: 7/15/2024 Date Work Completed: 7/17/2024

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: 12/13/2023 By: Daniel Landry, A&M Engineering

DEQ Person Notified: Release Reported Online

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
K-1	BJBKE	7500	Gasoline		☐	☑	☐	☐	☑
K-2	BJBKF	5000	Gasoline		☐	☑	☐	☐	☑
K-3	BJBKG	5000	Gasoline		☐	☑	☐	☐	☑
K-4	BJBKH	650	Kerosene		☐	☑	☐	☐	☑
K-5	BJBBF	650	Used Oil		☑	☐	☐	☐	☑

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

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

F. DISPOSAL INFORMATION:

	TANK AND PIPING DISPOSAL METHOD				DISPOSAL LOCATION OF TANK CONTENTS	
TANK ID #	SCRAP	LAND-FILL	OTHER	IDENTIFY LOCATION & PROPERTY OWNER	LIQUIDS	SLUDGES
K-1	☐	☐	✔	Decom In-Place	Oil Re-Refining Company	
K-2	☐	☐	✔	Decom In-Place	4150 N Suttle Road	
K-3	☐	☐	✔	Decom In-Place	Portland, OR 97217	
K-4	☐	☐	✔	Decom In-Place		
K-5	✔	☐	☐	Pacific Recycling Eugene, OR		

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)
K-1	✔	☐	☐	4	Pace Analytical Services, LLC
K-2	✔	☐	☐	3	1700 Elm Street
K-3	✔	☐	☐	3	Minneapolis MN 55414
K-4	☐	☐	☐	1	612-607-1700
K-5	☐	☐	☐	2	

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.)

I. SAFETY EQUIPMENT ON JOB SITE:

Fire Extinguisher:	Type/Size:	Type ABC/2-lb.	Recharge Date:	
Combustible Gas Detector:	Model:	RKI Instruments GX-2012	Calibration Date:	7/15/2024
Oxygen Analyzer:	Model:	RKI Instruments GX-2012	Calibration Date:	7/15/2024

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: 6/17/2024 DEQ Staff: Dave Pardue	✔			
17. Contamination concerns fully resolved?	✔			
18. Fill Material? Type: 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: Venting Meter reading: 0% LEL 19.8% O2	✔			
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: 8/12/2024	✔			
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: Karrie Knecht
(***Please Print***)

Permittee or Tank Owner: Karrie Knecht Date: 8/30/2024
(***Signature***)

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

Licensed Supervisor: Matthew Luczak
(***Please Print***)

Licensed Supervisor: Matthew Luczak Date: 8/30/2024
(***Signature***)

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

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

Executive Officer: Randall J. Boese Date: 8/30/2024
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

Disposal Receipts

INVOICE

MID-STATE INDUSTRIAL SERVICE, INC.
541-726-6730
MIDSTATE@MID-STATEINDUSTRIAL.COM

Please remit to:
MID-STATE INDUSTRIAL
88696 McVay Hwy
Eugene, Oregon 97405

INDUSTRIAL & MUNICIPAL SERVICES
VACUUM EXCAVATION LINE JETTING SWEEPING
www.mid-stateindustrial.com

CCB # 239935

BB&A ENVIRONMENTAL
PO BOX 40187
EUGENE, OR 97404

AUTH BY: MATT/ROB

CUSTOMER: 0549
INVOICE: 0213259
INV DATE: 07/16/24
P.O. NUMBER: 1082 HWY 99N

DESCRIPTION	EQUIP	HOURS	RATE	AMOUNT
PUMP OUT RESIDUAL FLUIDS FROM TANKS AT 1082 HWY 99N - EUGENE				
TRUCK AND OPERATOR		3.25	270.00	877.50
DISPOSAL		.25	135.00	33.75
DUMP FEE				1,012.50
	INVOICE TOTAL			1,923.75

TERMS: NET 10TH PROX.

PLEASE PAY FROM INVOICE. NO STATEMENT WILL BE SENT.

Oil Re-Refining Company
EPA# ORD980975692
4150 N Suttle Rd
Portland, OR 97217
Phone: 503-286-8352

Work Order
7/18/2024

Service Information
Bergeson Boese & Assoc.
1082 Highway 99 N
Eugene, OR 97402-2011
Contact: Randy cell
Phone: (503) 572-0079
E-mail: asburgess@bbaenv.com

KNK

Billing Information
Bergeson Boese & Assoc.
32986 Roberts Ct
Coburg, OR 97408

Job Name
Bergeson Boese & Assoc. - 2402750

Job Type	PO #	Invoice #	Scheduled	Start	End
Commercial			07/17/2024	5:00 AM	6:00 AM

Item	Description	Quantity	Rate	Amount
Wastewater (fuel & water CCP)	For recycling, CDT test:	200.0000	$0.7500	$150.00
Hydro Clor D Tect Test	Field test for chlorinates in aqueous materials	1.0000	$40.0000	$40.00
Truck & Gear Labor	Per hour (includes stop fee, job time and travel time when applicable).	1.0000	$120.0000	$120.00

Job Subtotal:	$310.00
OREGON:	$0.00
Payment Total:	$0.00
Total:	**$310.00**

GEN EPA ID#	GEN Status	Profile 1	Profile 2	Profile 3	Profile 4
N/A	None	used Oil 8-12-21	oily water 3-27-24	ccp fuel 5-21-25	

Profile 5	Profile 6	Profile 7	Profile8

Consigned to	Via carrier	Destination	City/State	EPA #	Truck #
ORRCO/Goshen	ORRCO	85951 Old Hwy 99 S	Eugene, OR	ORQ000024941	4737

Driver	Manifest #	CA waste codes
Cory Dickinson		

Job Notes and Instructions:
7/12- Thank You- Emily -200 ppm

As an authorized representative of the generator of the material described above, I certify that the information contained in this document is 100% accurate and complete. I further certify that this material does NOT constitute a hazardous waste and has NOT been mixed with any hazardous waste such as spent chlorinated solvents or any other contaminants including, without limitation, PCBs, pesticides, or any other hazardous wastes or substances. In the event that the material described in this document is in fact a hazardous waste, or contains 2 PPM or more of PCBs, I guarantee to pay all costs necessary for proper analysis, transportation, storage, and disposal as well as any fines, penalties, attorneys fees, expert witness fees and the loss of the petroleum product resulting from contamination and/or inaccurate and/or incomplete information concerning the material described above. Customer Not Available: Other /COVID-Social Distance VERBAL Signature.

CONSOIL

Permit No. CS004452

Contaminated Soil

Fees paid via:		**Fee group:**	**CONSOIL**	**Permit expired:**	**10/31/24**
Approved amt:	**6.50 Ton**	**Permit fee:**	**$25.00**	**Prepayment received (PCS only)?**	
Application received:		**Approved by:**	**Jake Schiewe**	**Appoval date:**	**7/31/24**

Waste type: **Contaminated Soil**

Waste description: Diesel/Heating oil contaminated soil

Source: UST Removal Project

Special instructions: No free liquids; Take measures to eliminate dust.

Site address: 1082 Hwy. 99 N. Eugene, OR 97402

BillTo	066724	Bergeson-Boese & Associates In			
Mailing address:	32986 Roberts Court				
Contact:	Randy Boese	**Phone:**	(541) 484-9484	**Fax:**	(541) 484-4188

Generator	079765	Kdirt, LLc			
Mailing address:	3400 Main Street				
Contact:	Karrie Knecht	**Phone:**	(541) 510-8459	**Fax:**	

Hauler	066724	Bergeson-Boese & Associates In			
Mailing address:	32986 Roberts Court				
Contact:	Randy Boese	**Phone:**	(541) 484-9484	**Fax:**	(541) 484-4188

IMPORTANT INSTRUCTIONS

Call Short Mt. Landfill at 726-3047 to schedule an appointment to dump your waste. Petroleum contaminated soil is accepted MONDAY THROUGH FRIDAY ONLY. Depending on conditions at the landfill, we will reserve the right to limit the amount of soil accepted at the landfill per day. Be specific when you call for an appointment.

Bring a copy of this permit with you when you go to the landfill. If you are using multiple trucks to haul your waste, be sure that every driver either has a copy of the permit or at least knows the permit number.

Failure to follow these procedures may result in long waits at the scales for your trucks or inaccurate billing. Remember, these procedures are for your protection as well as ours.

Lane County Public Works
Waste Management Division

Site 02 Short Mt. SMScale

Ticket: 0060580047 Temp: 44
Permit: CS004452
Operator: 13894 Date: 08/02/2024
In: 10:23AM Out: 10:38AM
Customer: Bergeson-Boese & Associates In
Account: 066724 Card: 001
In County: Yes Secured: Yes
Driver:
Truck: Volume: 0

	Load
Gross Wt:	10.19
Tare Wt:	6.46
Net Wt:	3.73
Gross LBS:	20380
Tare LBS:	12920
Net LBS:	7460

Fee Type	Description	Qty	Rate	Fee
41266	PCSoil TN	3.73	105.63	394.00

Total Fee: $394.00

Signed

ATTACHMENT B

Lab Reports and Chain-of-Custody Documents

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

August 12, 2024

Dan Landry
A & M Engineering and Environmental Services, Inc.
1176 West 7th Avenue
Eugene, OR 97402

RE: Project: Kdirt Soil Borings
Pace Project No.: 10701680

Dear Dan Landry:

Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jenni Gross

Jennifer Gross
jennifer.gross@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Dave Seaver, A & M Engineering and Environmental Services, Inc.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10701680001	SB-8-12	Solid	07/24/24 08:20	07/26/24 09:00
10701680002	SB-9-12	Solid	07/24/24 09:45	07/26/24 09:00
10701680003	SB-10-12	Solid	07/24/24 10:15	07/26/24 09:00
10701680004	SB-11-2.5	Solid	07/24/24 10:45	07/26/24 09:00
10701680005	SB-12-12	Solid	07/24/24 12:00	07/26/24 09:00
10701680006	SB-13-12	Solid	07/24/24 12:30	07/26/24 09:00
10701680007	SB-14-3	Solid	07/24/24 13:30	07/26/24 09:00
10701680008	SB-14-9	Solid	07/24/24 13:50	07/26/24 09:00
10701680009	SB-15-2.5	Solid	07/24/24 14:10	07/26/24 09:00
10701680010	SB-16-12	Solid	07/24/24 14:50	07/26/24 09:00
10701680011	SB-17-3	Solid	07/25/24 09:30	07/26/24 09:00
10701680012	SB-8-GW	Water	07/24/24 09:30	07/26/24 09:00
10701680013	SB-9-GW	Water	07/24/24 10:15	07/26/24 09:00
10701680014	SB-10-GW	Water	07/24/24 11:20	07/26/24 09:00
10701680015	SB-11-GW	Water	07/24/24 12:45	07/26/24 09:00
10701680016	Soil Trip Blank	Solid	07/24/24 00:00	07/26/24 09:00
10701680017	GW Trip Blank	Water	07/24/24 00:00	07/26/24 09:00

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10701680001	SB-8-12	NWTPH-Gx	TM2	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	15	PASI-M
10701680002	SB-9-12	NWTPH-Gx	ALE	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	15	PASI-M
10701680003	SB-10-12	NWTPH-Gx	ALE	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	15	PASI-M
10701680004	SB-11-2.5	NWTPH-Gx	ALE	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	15	PASI-M
10701680005	SB-12-12	NWTPH-Gx	ALE	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	15	PASI-M
10701680006	SB-13-12	NWTPH-Gx	ALE	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	15	PASI-M
10701680007	SB-14-3	NWTPH-Gx	ALE	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	15	PASI-M
10701680008	SB-14-9	NWTPH-Gx	ALE	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	15	PASI-M
10701680009	SB-15-2.5	NWTPH-Gx	ALE	2	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260D	ZB	15	PASI-M
10701680010	SB-16-12	NWTPH-Dx	TT2	4	PASI-M
		NWTPH-Gx	ALE	2	PASI-M
		ASTM D2974	NJ1	1	PASI-M
		EPA 8260D	ZB	15	PASI-M
10701680011	SB-17-3	NWTPH-Dx	TT2	4	PASI-M
		NWTPH-Gx	ALE	2	PASI-M
		ASTM D2974	NJ1	1	PASI-M
10701680012	SB-8-GW	NWTPH-Gx	TM2	2	PASI-M
		EPA 8260D	JEM	15	PASI-M
10701680013	SB-9-GW	NWTPH-Gx	TM2	2	PASI-M

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260D	JEM	15	PASI-M
10701680014	**SB-10-GW**	NWTPH-Gx	TM2	2	PASI-M
		EPA 8260D	JEM	15	PASI-M
10701680015	**SB-11-GW**	NWTPH-Gx	TM2	2	PASI-M
		EPA 8260D	JEM	15	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Sample: SB-8-12 **Lab ID: 10701680001** Collected: 07/24/24 08:20 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	ND	mg/kg	14.2	1	07/30/24 15:45	08/01/24 11:42		
Surrogates								
a,a,a-Trifluorotoluene (S)	94	%.	50-150	1	07/30/24 15:45	08/01/24 11:42	98-08-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**25.1**	%	0.10	1		08/06/24 14:44		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/kg	129	1	08/06/24 13:14	08/06/24 21:46	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/kg	129	1	08/06/24 13:14	08/06/24 21:46	106-93-4	
1,2-Dichloroethane	ND	ug/kg	129	1	08/06/24 13:14	08/06/24 21:46	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/kg	129	1	08/06/24 13:14	08/06/24 21:46	108-67-8	
Benzene	ND	ug/kg	51.6	1	08/06/24 13:14	08/06/24 21:46	71-43-2	
Ethylbenzene	ND	ug/kg	129	1	08/06/24 13:14	08/06/24 21:46	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/kg	129	1	08/06/24 13:14	08/06/24 21:46	98-82-8	
Methyl-tert-butyl ether	ND	ug/kg	129	1	08/06/24 13:14	08/06/24 21:46	1634-04-4	
Naphthalene	ND	ug/kg	516	1	08/06/24 13:14	08/06/24 21:46	91-20-3	
Toluene	ND	ug/kg	129	1	08/06/24 13:14	08/06/24 21:46	108-88-3	
Xylene (Total)	ND	ug/kg	387	1	08/06/24 13:14	08/06/24 21:46	1330-20-7	
n-Propylbenzene	ND	ug/kg	129	1	08/06/24 13:14	08/06/24 21:46	103-65-1	
Surrogates								
Toluene-d8 (S)	95	%.	75-125	1	08/06/24 13:14	08/06/24 21:46	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	08/06/24 13:14	08/06/24 21:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%.	75-125	1	08/06/24 13:14	08/06/24 21:46	2199-69-1	

Sample: SB-9-12 **Lab ID: 10701680002** Collected: 07/24/24 09:45 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	ND	mg/kg	15.1	1	07/30/24 15:45	07/30/24 21:11		
Surrogates								
a,a,a-Trifluorotoluene (S)	96	%.	50-150	1	07/30/24 15:45	07/30/24 21:11	98-08-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**23.4**	%	0.10	1		08/06/24 14:44		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Sample: SB-9-12 **Lab ID: 10701680002** Collected: 07/24/24 09:45 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/kg	154	1	08/06/24 13:14	08/06/24 22:01	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/kg	154	1	08/06/24 13:14	08/06/24 22:01	106-93-4	
1,2-Dichloroethane	ND	ug/kg	154	1	08/06/24 13:14	08/06/24 22:01	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/kg	154	1	08/06/24 13:14	08/06/24 22:01	108-67-8	
Benzene	ND	ug/kg	61.6	1	08/06/24 13:14	08/06/24 22:01	71-43-2	
Ethylbenzene	ND	ug/kg	154	1	08/06/24 13:14	08/06/24 22:01	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/kg	154	1	08/06/24 13:14	08/06/24 22:01	98-82-8	
Methyl-tert-butyl ether	ND	ug/kg	154	1	08/06/24 13:14	08/06/24 22:01	1634-04-4	
Naphthalene	ND	ug/kg	616	1	08/06/24 13:14	08/06/24 22:01	91-20-3	
Toluene	ND	ug/kg	154	1	08/06/24 13:14	08/06/24 22:01	108-88-3	
Xylene (Total)	ND	ug/kg	462	1	08/06/24 13:14	08/06/24 22:01	1330-20-7	
n-Propylbenzene	ND	ug/kg	154	1	08/06/24 13:14	08/06/24 22:01	103-65-1	
Surrogates								
Toluene-d8 (S)	96	%.	75-125	1	08/06/24 13:14	08/06/24 22:01	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	1	08/06/24 13:14	08/06/24 22:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%.	75-125	1	08/06/24 13:14	08/06/24 22:01	2199-69-1	

Sample: SB-10-12 **Lab ID: 10701680003** Collected: 07/24/24 10:15 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	ND	mg/kg	13.4	1	07/30/24 15:45	07/30/24 21:27		
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%.	50-150	1	07/30/24 15:45	07/30/24 21:27	98-08-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**21.6**	%	0.10	1		08/06/24 14:44		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/kg	125	1	08/06/24 13:14	08/06/24 22:16	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/kg	125	1	08/06/24 13:14	08/06/24 22:16	106-93-4	
1,2-Dichloroethane	ND	ug/kg	125	1	08/06/24 13:14	08/06/24 22:16	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/kg	125	1	08/06/24 13:14	08/06/24 22:16	108-67-8	
Benzene	ND	ug/kg	50.1	1	08/06/24 13:14	08/06/24 22:16	71-43-2	
Ethylbenzene	ND	ug/kg	125	1	08/06/24 13:14	08/06/24 22:16	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/kg	125	1	08/06/24 13:14	08/06/24 22:16	98-82-8	
Methyl-tert-butyl ether	ND	ug/kg	125	1	08/06/24 13:14	08/06/24 22:16	1634-04-4	
Naphthalene	ND	ug/kg	501	1	08/06/24 13:14	08/06/24 22:16	91-20-3	
Toluene	ND	ug/kg	125	1	08/06/24 13:14	08/06/24 22:16	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Sample: SB-10-12 **Lab ID: 10701680003** Collected: 07/24/24 10:15 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Xylene (Total)	ND	ug/kg	376	1	08/06/24 13:14	08/06/24 22:16	1330-20-7	
n-Propylbenzene	ND	ug/kg	125	1	08/06/24 13:14	08/06/24 22:16	103-65-1	
Surrogates								
Toluene-d8 (S)	100	%.	75-125	1	08/06/24 13:14	08/06/24 22:16	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1	08/06/24 13:14	08/06/24 22:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1	08/06/24 13:14	08/06/24 22:16	2199-69-1	

Sample: SB-11-2.5 **Lab ID: 10701680004** Collected: 07/24/24 10:45 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	ND	mg/kg	13.8	1	07/30/24 15:45	07/30/24 21:44		
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%.	50-150	1	07/30/24 15:45	07/30/24 21:44	98-08-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**17.2**	%	0.10	1		08/06/24 14:44		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/kg	137	1	08/06/24 13:14	08/06/24 22:32	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/kg	137	1	08/06/24 13:14	08/06/24 22:32	106-93-4	
1,2-Dichloroethane	ND	ug/kg	137	1	08/06/24 13:14	08/06/24 22:32	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/kg	137	1	08/06/24 13:14	08/06/24 22:32	108-67-8	
Benzene	ND	ug/kg	55.0	1	08/06/24 13:14	08/06/24 22:32	71-43-2	
Ethylbenzene	ND	ug/kg	137	1	08/06/24 13:14	08/06/24 22:32	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/kg	137	1	08/06/24 13:14	08/06/24 22:32	98-82-8	
Methyl-tert-butyl ether	ND	ug/kg	137	1	08/06/24 13:14	08/06/24 22:32	1634-04-4	
Naphthalene	ND	ug/kg	550	1	08/06/24 13:14	08/06/24 22:32	91-20-3	
Toluene	ND	ug/kg	137	1	08/06/24 13:14	08/06/24 22:32	108-88-3	
Xylene (Total)	ND	ug/kg	412	1	08/06/24 13:14	08/06/24 22:32	1330-20-7	
n-Propylbenzene	ND	ug/kg	137	1	08/06/24 13:14	08/06/24 22:32	103-65-1	
Surrogates								
Toluene-d8 (S)	94	%.	75-125	1	08/06/24 13:14	08/06/24 22:32	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	08/06/24 13:14	08/06/24 22:32	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%.	75-125	1	08/06/24 13:14	08/06/24 22:32	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Sample: SB-12-12 **Lab ID: 10701680005** Collected: 07/24/24 12:00 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	ND	mg/kg	13.3	1	07/30/24 15:45	07/30/24 22:00		
Surrogates								
a,a,a-Trifluorotoluene (S)	95	%.	50-150	1	07/30/24 15:45	07/30/24 22:00	98-08-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.9**	%	0.10	1		08/06/24 14:45		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/kg	132	1	08/06/24 13:14	08/06/24 19:58	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/kg	132	1	08/06/24 13:14	08/06/24 19:58	106-93-4	
1,2-Dichloroethane	ND	ug/kg	132	1	08/06/24 13:14	08/06/24 19:58	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/kg	132	1	08/06/24 13:14	08/06/24 19:58	108-67-8	
Benzene	ND	ug/kg	52.7	1	08/06/24 13:14	08/06/24 19:58	71-43-2	
Ethylbenzene	ND	ug/kg	132	1	08/06/24 13:14	08/06/24 19:58	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/kg	132	1	08/06/24 13:14	08/06/24 19:58	98-82-8	
Methyl-tert-butyl ether	ND	ug/kg	132	1	08/06/24 13:14	08/06/24 19:58	1634-04-4	
Naphthalene	ND	ug/kg	527	1	08/06/24 13:14	08/06/24 19:58	91-20-3	
Toluene	ND	ug/kg	132	1	08/06/24 13:14	08/06/24 19:58	108-88-3	
Xylene (Total)	ND	ug/kg	395	1	08/06/24 13:14	08/06/24 19:58	1330-20-7	
n-Propylbenzene	ND	ug/kg	132	1	08/06/24 13:14	08/06/24 19:58	103-65-1	
Surrogates								
Toluene-d8 (S)	97	%.	75-125	1	08/06/24 13:14	08/06/24 19:58	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	08/06/24 13:14	08/06/24 19:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125	1	08/06/24 13:14	08/06/24 19:58	2199-69-1	

Sample: SB-13-12 **Lab ID: 10701680006** Collected: 07/24/24 12:30 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	ND	mg/kg	7.4	1	07/30/24 15:45	07/30/24 22:17		
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%.	50-150	1	07/30/24 15:45	07/30/24 22:17	98-08-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**22.7**	%	0.10	1		08/06/24 14:45		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Sample: SB-13-12 **Lab ID: 10701680006** Collected: 07/24/24 12:30 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/kg	83.8	1	08/06/24 13:14	08/06/24 23:03	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/kg	83.8	1	08/06/24 13:14	08/06/24 23:03	106-93-4	
1,2-Dichloroethane	ND	ug/kg	83.8	1	08/06/24 13:14	08/06/24 23:03	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/kg	83.8	1	08/06/24 13:14	08/06/24 23:03	108-67-8	
Benzene	ND	ug/kg	33.5	1	08/06/24 13:14	08/06/24 23:03	71-43-2	
Ethylbenzene	ND	ug/kg	83.8	1	08/06/24 13:14	08/06/24 23:03	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/kg	83.8	1	08/06/24 13:14	08/06/24 23:03	98-82-8	
Methyl-tert-butyl ether	ND	ug/kg	83.8	1	08/06/24 13:14	08/06/24 23:03	1634-04-4	
Naphthalene	ND	ug/kg	335	1	08/06/24 13:14	08/06/24 23:03	91-20-3	
Toluene	ND	ug/kg	83.8	1	08/06/24 13:14	08/06/24 23:03	108-88-3	
Xylene (Total)	ND	ug/kg	251	1	08/06/24 13:14	08/06/24 23:03	1330-20-7	
n-Propylbenzene	ND	ug/kg	83.8	1	08/06/24 13:14	08/06/24 23:03	103-65-1	
Surrogates								
Toluene-d8 (S)	95	%.	75-125	1	08/06/24 13:14	08/06/24 23:03	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125	1	08/06/24 13:14	08/06/24 23:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1	08/06/24 13:14	08/06/24 23:03	2199-69-1	

Sample: SB-14-3 **Lab ID: 10701680007** Collected: 07/24/24 13:30 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	**16.4**	mg/kg	13.5	1	07/30/24 15:45	07/30/24 22:34		
Surrogates								
a,a,a-Trifluorotoluene (S)	96	%.	50-150	1	07/30/24 15:45	07/30/24 22:34	98-08-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**19.7**	%	0.10	1		08/06/24 14:45		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/kg	120	1	08/06/24 13:14	08/06/24 20:13	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/kg	120	1	08/06/24 13:14	08/06/24 20:13	106-93-4	
1,2-Dichloroethane	ND	ug/kg	120	1	08/06/24 13:14	08/06/24 20:13	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/kg	120	1	08/06/24 13:14	08/06/24 20:13	108-67-8	
Benzene	ND	ug/kg	48.1	1	08/06/24 13:14	08/06/24 20:13	71-43-2	
Ethylbenzene	ND	ug/kg	120	1	08/06/24 13:14	08/06/24 20:13	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/kg	120	1	08/06/24 13:14	08/06/24 20:13	98-82-8	
Methyl-tert-butyl ether	ND	ug/kg	120	1	08/06/24 13:14	08/06/24 20:13	1634-04-4	
Naphthalene	ND	ug/kg	481	1	08/06/24 13:14	08/06/24 20:13	91-20-3	
Toluene	**357**	ug/kg	120	1	08/06/24 13:14	08/06/24 20:13	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Sample: SB-14-3 **Lab ID: 10701680007** Collected: 07/24/24 13:30 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
Xylene (Total)	ND	ug/kg	361	1	08/06/24 13:14	08/06/24 20:13	1330-20-7	
n-Propylbenzene	ND	ug/kg	120	1	08/06/24 13:14	08/06/24 20:13	103-65-1	
Surrogates								
Toluene-d8 (S)	96	%.	75-125	1	08/06/24 13:14	08/06/24 20:13	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125	1	08/06/24 13:14	08/06/24 20:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125	1	08/06/24 13:14	08/06/24 20:13	2199-69-1	

Sample: SB-14-9 **Lab ID: 10701680008** Collected: 07/24/24 13:50 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	ND	mg/kg	13.4	1	07/30/24 15:45	07/30/24 22:50		
Surrogates								
a,a,a-Trifluorotoluene (S)	98	%.	50-150	1	07/30/24 15:45	07/30/24 22:50	98-08-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**23.0**	%	0.10	1		08/06/24 14:45		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/kg	135	1	08/06/24 13:14	08/06/24 22:47	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/kg	135	1	08/06/24 13:14	08/06/24 22:47	106-93-4	
1,2-Dichloroethane	ND	ug/kg	135	1	08/06/24 13:14	08/06/24 22:47	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/kg	135	1	08/06/24 13:14	08/06/24 22:47	108-67-8	
Benzene	ND	ug/kg	54.0	1	08/06/24 13:14	08/06/24 22:47	71-43-2	
Ethylbenzene	ND	ug/kg	135	1	08/06/24 13:14	08/06/24 22:47	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/kg	135	1	08/06/24 13:14	08/06/24 22:47	98-82-8	
Methyl-tert-butyl ether	ND	ug/kg	135	1	08/06/24 13:14	08/06/24 22:47	1634-04-4	
Naphthalene	ND	ug/kg	540	1	08/06/24 13:14	08/06/24 22:47	91-20-3	
Toluene	ND	ug/kg	135	1	08/06/24 13:14	08/06/24 22:47	108-88-3	
Xylene (Total)	ND	ug/kg	405	1	08/06/24 13:14	08/06/24 22:47	1330-20-7	
n-Propylbenzene	ND	ug/kg	135	1	08/06/24 13:14	08/06/24 22:47	103-65-1	
Surrogates								
Toluene-d8 (S)	93	%.	75-125	1	08/06/24 13:14	08/06/24 22:47	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1	08/06/24 13:14	08/06/24 22:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%.	75-125	1	08/06/24 13:14	08/06/24 22:47	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Sample: SB-15-2.5 **Lab ID: 10701680009** Collected: 07/24/24 14:10 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	ND	mg/kg	13.2	1	07/30/24 15:45	07/30/24 23:07		
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%.	50-150	1	07/30/24 15:45	07/30/24 23:07	98-08-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**20.6**	%	0.10	1		08/06/24 14:46		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:29	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:29	106-93-4	
1,2-Dichloroethane	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:29	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:29	108-67-8	
Benzene	ND	ug/kg	58.2	1	08/06/24 13:14	08/06/24 20:29	71-43-2	
Ethylbenzene	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:29	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:29	98-82-8	
Methyl-tert-butyl ether	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:29	1634-04-4	
Naphthalene	ND	ug/kg	582	1	08/06/24 13:14	08/06/24 20:29	91-20-3	
Toluene	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:29	108-88-3	
Xylene (Total)	ND	ug/kg	436	1	08/06/24 13:14	08/06/24 20:29	1330-20-7	
n-Propylbenzene	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:29	103-65-1	
Surrogates								
Toluene-d8 (S)	98	%.	75-125	1	08/06/24 13:14	08/06/24 20:29	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	08/06/24 13:14	08/06/24 20:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%.	75-125	1	08/06/24 13:14	08/06/24 20:29	2199-69-1	

Sample: SB-16-12 **Lab ID: 10701680010** Collected: 07/24/24 14:50 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Microwave	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Diesel Fuel Range	ND	mg/kg	20.0	1	07/30/24 15:06	07/31/24 17:29	68334-30-5	
Motor Oil Range	ND	mg/kg	13.3	1	07/30/24 15:06	07/31/24 17:29		
Surrogates								
n-Triacontane (S)	70	%.	50-150	1	07/30/24 15:06	07/31/24 17:29		
o-Terphenyl (S)	74	%.	50-150	1	07/30/24 15:06	07/31/24 17:29	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	ND	mg/kg	14.5	1	07/30/24 15:45	07/30/24 23:23		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
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ANALYTICAL RESULTS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Sample: SB-16-12 **Lab ID: 10701680010** Collected: 07/24/24 14:50 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
Surrogates								
a,a,a-Trifluorotoluene (S)	95	%.	50-150	1	07/30/24 15:45	07/30/24 23:23	98-08-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis							
Percent Moisture	**25.3**	%	0.10	1		07/30/24 19:24		N2
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:44	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:44	106-93-4	
1,2-Dichloroethane	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:44	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:44	108-67-8	
Benzene	ND	ug/kg	58.1	1	08/06/24 13:14	08/06/24 20:44	71-43-2	
Ethylbenzene	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:44	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:44	98-82-8	
Methyl-tert-butyl ether	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:44	1634-04-4	
Naphthalene	ND	ug/kg	581	1	08/06/24 13:14	08/06/24 20:44	91-20-3	
Toluene	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:44	108-88-3	
Xylene (Total)	ND	ug/kg	436	1	08/06/24 13:14	08/06/24 20:44	1330-20-7	
n-Propylbenzene	ND	ug/kg	145	1	08/06/24 13:14	08/06/24 20:44	103-65-1	
Surrogates								
Toluene-d8 (S)	100	%.	75-125	1	08/06/24 13:14	08/06/24 20:44	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1	08/06/24 13:14	08/06/24 20:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125	1	08/06/24 13:14	08/06/24 20:44	2199-69-1	

Sample: SB-17-3 **Lab ID: 10701680011** Collected: 07/25/24 09:30 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Microwave	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis							
Diesel Fuel Range	ND	mg/kg	15.8	1	07/30/24 15:06	07/31/24 17:40	68334-30-5	
Motor Oil Range	ND	mg/kg	10.5	1	07/30/24 15:06	07/31/24 17:40		
Surrogates								
n-Triacontane (S)	80	%.	50-150	1	07/30/24 15:06	07/31/24 17:40		
o-Terphenyl (S)	79	%.	50-150	1	07/30/24 15:06	07/31/24 17:40	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	ND	mg/kg	13.1	1	07/30/24 15:45	07/30/24 19:14		
Surrogates								
a,a,a-Trifluorotoluene (S)	95	%.	50-150	1	07/30/24 15:45	07/30/24 19:14	98-08-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Sample: SB-17-3 **Lab ID: 10701680011** Collected: 07/25/24 09:30 Received: 07/26/24 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974							
	Pace Analytical Services - Minneapolis							
Percent Moisture	**6.7**	%	0.10	1		07/30/24 19:25		N2

Sample: SB-8-GW **Lab ID: 10701680012** Collected: 07/24/24 09:30 Received: 07/26/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
	Pace Analytical Services - Minneapolis							
TPH as Gas	ND	ug/L	100	1		08/05/24 21:00		
Surrogates								
a,a,a-Trifluorotoluene (S)	92	%.	50-150	1		08/05/24 21:00	98-08-8	
8260D VOC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/05/24 21:38	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/05/24 21:38	106-93-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/05/24 21:38	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/05/24 21:38	108-67-8	
Benzene	ND	ug/L	1.0	1		08/05/24 21:38	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/05/24 21:38	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/05/24 21:38	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/05/24 21:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		08/05/24 21:38	91-20-3	
Toluene	ND	ug/L	1.0	1		08/05/24 21:38	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/05/24 21:38	1330-20-7	
n-Propylbenzene	ND	ug/L	1.0	1		08/05/24 21:38	103-65-1	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		08/05/24 21:38	2199-69-1	
4-Bromofluorobenzene (S)	105	%.	75-125	1		08/05/24 21:38	460-00-4	
Toluene-d8 (S)	103	%.	75-125	1		08/05/24 21:38	2037-26-5	

Sample: SB-9-GW **Lab ID: 10701680013** Collected: 07/24/24 10:15 Received: 07/26/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
	Pace Analytical Services - Minneapolis							
TPH as Gas	ND	ug/L	100	1		08/05/24 21:20		
Surrogates								
a,a,a-Trifluorotoluene (S)	92	%.	50-150	1		08/05/24 21:20	98-08-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
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ANALYTICAL RESULTS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Sample: SB-9-GW **Lab ID: 10701680013** Collected: 07/24/24 10:15 Received: 07/26/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/05/24 21:54	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/05/24 21:54	106-93-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/05/24 21:54	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/05/24 21:54	108-67-8	
Benzene	ND	ug/L	1.0	1		08/05/24 21:54	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/05/24 21:54	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/05/24 21:54	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/05/24 21:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		08/05/24 21:54	91-20-3	
Toluene	ND	ug/L	1.0	1		08/05/24 21:54	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/05/24 21:54	1330-20-7	
n-Propylbenzene	ND	ug/L	1.0	1		08/05/24 21:54	103-65-1	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1		08/05/24 21:54	2199-69-1	
4-Bromofluorobenzene (S)	104	%.	75-125	1		08/05/24 21:54	460-00-4	
Toluene-d8 (S)	104	%.	75-125	1		08/05/24 21:54	2037-26-5	

Sample: SB-10-GW **Lab ID: 10701680014** Collected: 07/24/24 11:20 Received: 07/26/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	ND	ug/L	100	1		08/05/24 21:39		
Surrogates								
a,a,a-Trifluorotoluene (S)	94	%.	50-150	1		08/05/24 21:39	98-08-8	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/05/24 22:10	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/05/24 22:10	106-93-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/05/24 22:10	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/05/24 22:10	108-67-8	
Benzene	ND	ug/L	1.0	1		08/05/24 22:10	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/05/24 22:10	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/05/24 22:10	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/05/24 22:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		08/05/24 22:10	91-20-3	
Toluene	ND	ug/L	1.0	1		08/05/24 22:10	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/05/24 22:10	1330-20-7	
n-Propylbenzene	ND	ug/L	1.0	1		08/05/24 22:10	103-65-1	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		08/05/24 22:10	2199-69-1	
4-Bromofluorobenzene (S)	104	%.	75-125	1		08/05/24 22:10	460-00-4	
Toluene-d8 (S)	104	%.	75-125	1		08/05/24 22:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
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ANALYTICAL RESULTS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Sample: SB-11-GW **Lab ID: 10701680015** Collected: 07/24/24 12:45 Received: 07/26/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis							
TPH as Gas	ND	ug/L	100	1		08/05/24 21:58		
Surrogates								
a,a,a-Trifluorotoluene (S)	95	%.	50-150	1		08/05/24 21:58	98-08-8	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		08/05/24 22:27	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/05/24 22:27	106-93-4	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/05/24 22:27	107-06-2	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/05/24 22:27	108-67-8	
Benzene	ND	ug/L	1.0	1		08/05/24 22:27	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/05/24 22:27	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		08/05/24 22:27	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/05/24 22:27	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		08/05/24 22:27	91-20-3	
Toluene	ND	ug/L	1.0	1		08/05/24 22:27	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/05/24 22:27	1330-20-7	
n-Propylbenzene	ND	ug/L	1.0	1		08/05/24 22:27	103-65-1	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		08/05/24 22:27	2199-69-1	
4-Bromofluorobenzene (S)	105	%.	75-125	1		08/05/24 22:27	460-00-4	
Toluene-d8 (S)	103	%.	75-125	1		08/05/24 22:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Kdirt Soil Borings
Pace Project No.: 10701680

QC Batch: 959419
QC Batch Method: NWTPH-Gx
Analysis Method: NWTPH-Gx
Analysis Description: NWTPH-Gx Solid GCV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10701680001, 10701680002, 10701680003, 10701680004, 10701680005, 10701680006, 10701680007, 10701680008, 10701680009, 10701680010, 10701680011

METHOD BLANK: 5015880 Matrix: Solid
Associated Lab Samples: 10701680001, 10701680002, 10701680003, 10701680004, 10701680005, 10701680006, 10701680007, 10701680008, 10701680009, 10701680010, 10701680011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	mg/kg	ND	5.0	07/30/24 18:41	
a,a,a-Trifluorotoluene (S)	%.	96	50-150	07/30/24 18:41	

LABORATORY CONTROL SAMPLE & LCSD: 5015881 5015882

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	50	45.1	45.5	90	91	73-125	1	20	
a,a,a-Trifluorotoluene (S)	%.				98	99	50-150			

SAMPLE DUPLICATE: 5015970

Parameter	Units	10701680011 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	ND	ND		30	
a,a,a-Trifluorotoluene (S)	%.	95	98			

SAMPLE DUPLICATE: 5015971

Parameter	Units	10701680010 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	ND	ND		30	
a,a,a-Trifluorotoluene (S)	%.	95	97			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Kdirt Soil Borings
Pace Project No.: 10701680

QC Batch: 960670 | Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx | Analysis Description: NWTPH-Gx Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10701680012, 10701680013, 10701680014, 10701680015

METHOD BLANK: 5022094 Matrix: Water
Associated Lab Samples: 10701680012, 10701680013, 10701680014, 10701680015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	08/05/24 18:06	
a,a,a-Trifluorotoluene (S)	%.	94	50-150	08/05/24 18:06	

LABORATORY CONTROL SAMPLE & LCSD: 5022096 5022097

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	873	847	87	85	66-125	3	20	
a,a,a-Trifluorotoluene (S)	%.				97	95	50-150			

SAMPLE DUPLICATE: 5022098

Parameter	Units	10702861001 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	6260	6660	6	30	E
a,a,a-Trifluorotoluene (S)	%.	102	103			

SAMPLE DUPLICATE: 5022099

Parameter	Units	10701571008 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	<24.0	ND		30	
a,a,a-Trifluorotoluene (S)	%.	94	94			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Kdirt Soil Borings
Pace Project No.: 10701680

QC Batch: 959483
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10701680010, 10701680011

SAMPLE DUPLICATE: 5016280

Parameter	Units	10700035001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	67.2	68.5	2	30	N2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Kdirt Soil Borings
Pace Project No.: 10701680

QC Batch: 960741
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10701680001, 10701680002, 10701680003, 10701680004, 10701680005, 10701680006, 10701680007, 10701680008, 10701680009

SAMPLE DUPLICATE: 5022419

Parameter	Units	10701680001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.1	26.1	4	30	N2

SAMPLE DUPLICATE: 5023072

Parameter	Units	10701533004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.0	7.6	4	30	N2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kdirt Soil Borings
Pace Project No.: 10701680

QC Batch: 960914
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 5030 Med Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10701680001, 10701680002, 10701680003, 10701680004, 10701680005, 10701680006, 10701680007, 10701680008, 10701680009, 10701680010

METHOD BLANK: 5022983 Matrix: Solid
Associated Lab Samples: 10701680001, 10701680002, 10701680003, 10701680004, 10701680005, 10701680006, 10701680007, 10701680008, 10701680009, 10701680010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	08/06/24 19:27	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	08/06/24 19:27	
1,2-Dichloroethane	ug/kg	ND	50.0	08/06/24 19:27	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	08/06/24 19:27	
Benzene	ug/kg	ND	20.0	08/06/24 19:27	
Ethylbenzene	ug/kg	ND	50.0	08/06/24 19:27	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	08/06/24 19:27	
Methyl-tert-butyl ether	ug/kg	ND	50.0	08/06/24 19:27	
n-Propylbenzene	ug/kg	ND	50.0	08/06/24 19:27	
Naphthalene	ug/kg	ND	200	08/06/24 19:27	
Toluene	ug/kg	ND	50.0	08/06/24 19:27	
Xylene (Total)	ug/kg	ND	150	08/06/24 19:27	
1,2-Dichlorobenzene-d4 (S)	%.	100	75-125	08/06/24 19:27	
4-Bromofluorobenzene (S)	%.	101	75-125	08/06/24 19:27	
Toluene-d8 (S)	%.	97	75-125	08/06/24 19:27	

LABORATORY CONTROL SAMPLE & LCSD: 5022984 5022985

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1090	893	109	89	66-129	19	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	1060	978	106	98	75-125	9	20	
1,2-Dichloroethane	ug/kg	1000	1180	1010	118	101	75-126	15	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1090	897	109	90	66-129	19	20	
Benzene	ug/kg	1000	1040	885	104	89	75-125	16	20	
Ethylbenzene	ug/kg	1000	1040	913	104	91	70-125	13	20	
Isopropylbenzene (Cumene)	ug/kg	1000	1040	926	104	93	72-125	12	20	
Methyl-tert-butyl ether	ug/kg	1000	1140	1000	114	100	75-125	13	20	
n-Propylbenzene	ug/kg	1000	1020	854	102	85	70-131	17	20	
Naphthalene	ug/kg	1000	1100	958	110	96	67-126	14	20	
Toluene	ug/kg	1000	1040	886	104	89	72-125	16	20	
Xylene (Total)	ug/kg	3000	3120	2790	104	93	70-125	11	20	
1,2-Dichlorobenzene-d4 (S)	%.				99	100	75-125			
4-Bromofluorobenzene (S)	%.				97	105	75-125			
Toluene-d8 (S)	%.				97	97	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Kdirt Soil Borings
Pace Project No.: 10701680

QC Batch: 960674
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10701680012, 10701680013, 10701680014, 10701680015

METHOD BLANK: 5022121 Matrix: Water
Associated Lab Samples: 10701680012, 10701680013, 10701680014, 10701680015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/05/24 20:17	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/05/24 20:17	
1,2-Dichloroethane	ug/L	ND	1.0	08/05/24 20:17	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/05/24 20:17	
Benzene	ug/L	ND	1.0	08/05/24 20:17	
Ethylbenzene	ug/L	ND	1.0	08/05/24 20:17	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/05/24 20:17	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/05/24 20:17	
n-Propylbenzene	ug/L	ND	1.0	08/05/24 20:17	
Naphthalene	ug/L	ND	1.0	08/05/24 20:17	
Toluene	ug/L	ND	1.0	08/05/24 20:17	
Xylene (Total)	ug/L	ND	3.0	08/05/24 20:17	
1,2-Dichlorobenzene-d4 (S)	%.	100	75-125	08/05/24 20:17	
4-Bromofluorobenzene (S)	%.	104	75-125	08/05/24 20:17	
Toluene-d8 (S)	%.	103	75-125	08/05/24 20:17	

LABORATORY CONTROL SAMPLE & LCSD: 5022122 5022123

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.8	19.3	99	96	75-125	3	20	
1,2-Dibromoethane (EDB)	ug/L	20	20.5	21.0	103	105	75-125	2	20	
1,2-Dichloroethane	ug/L	20	21.5	21.3	107	107	75-125	1	20	
1,3,5-Trimethylbenzene	ug/L	20	19.2	19.0	96	95	75-125	1	20	
Benzene	ug/L	20	20.4	19.9	102	99	75-125	3	20	
Ethylbenzene	ug/L	20	20.1	19.9	101	100	75-125	1	20	
Isopropylbenzene (Cumene)	ug/L	20	19.6	19.7	98	98	75-125	0	20	
Methyl-tert-butyl ether	ug/L	20	21.7	21.8	109	109	75-125	0	20	
n-Propylbenzene	ug/L	20	19.6	19.4	98	97	75-125	1	20	
Naphthalene	ug/L	20	19.5	19.1	97	95	65-130	2	20	
Toluene	ug/L	20	19.8	19.2	99	96	75-125	3	20	
Xylene (Total)	ug/L	60	60.1	59.2	100	99	75-125	1	20	
1,2-Dichlorobenzene-d4 (S)	%.				99	101	75-125			
4-Bromofluorobenzene (S)	%.				101	101	75-125			
Toluene-d8 (S)	%.				100	100	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Kdirt Soil Borings
Pace Project No.: 10701680

QC Batch: 959452
QC Batch Method: EPA 3546
Analysis Method: NWTPH-Dx
Analysis Description: NWTPH-Dx GCS Microwave
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10701680010, 10701680011

METHOD BLANK: 5015998 Matrix: Solid
Associated Lab Samples: 10701680010, 10701680011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range	mg/kg	ND	15.0	07/31/24 14:54	
Motor Oil Range	mg/kg	ND	10.0	07/31/24 14:54	
n-Triacontane (S)	%.	77	50-150	07/31/24 14:54	
o-Terphenyl (S)	%.	78	50-150	07/31/24 14:54	

LABORATORY CONTROL SAMPLE: 5015999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range	mg/kg	50	44.5	89	50-150	
Motor Oil Range	mg/kg	50	47.1	94	50-150	
n-Triacontane (S)	%.			91	50-150	
o-Terphenyl (S)	%.			90	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5016000 5016001

Parameter	Units	10701501001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel Range	mg/kg	4940	49.6	49.8	4990	4780	87	-331	50-150	4	30	P6
Motor Oil Range	mg/kg	3880	49.6	49.8	3960	3740	151	-280	50-150	6	30	P6
n-Triacontane (S)	%.						0	0	50-150			S4
o-Terphenyl (S)	%.						0	0	50-150			S4

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 959471

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 960670

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 960674

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
[1]	The continuing calibration verification was below the method acceptance limit for bromomethane. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

Batch: 961132

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
[1]	The continuing calibration verification was above the method acceptance limit for bromomethane, dichlorofluoromethane, cis-1,2-dichloroethene, and 1,2-dichloroethane. Any detection for the analyte in the associated samples may have a high bias.
[2]	Bromomethane, chloroethane, and dichlorofluoromethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Kdirt Soil Borings
Pace Project No.: 10701680

ANALYTE QUALIFIERS

P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

Pace Analytical Services, LLC
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(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Kdirt Soil Borings
Pace Project No.: 10701680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10701680010	SB-16-12	EPA 3546	959452	NWTPH-Dx	959642
10701680011	SB-17-3	EPA 3546	959452	NWTPH-Dx	959642
10701680001	SB-8-12	NWTPH-Gx	959419	NWTPH-Gx	959471
10701680002	SB-9-12	NWTPH-Gx	959419	NWTPH-Gx	959471
10701680003	SB-10-12	NWTPH-Gx	959419	NWTPH-Gx	959471
10701680004	SB-11-2.5	NWTPH-Gx	959419	NWTPH-Gx	959471
10701680005	SB-12-12	NWTPH-Gx	959419	NWTPH-Gx	959471
10701680006	SB-13-12	NWTPH-Gx	959419	NWTPH-Gx	959471
10701680007	SB-14-3	NWTPH-Gx	959419	NWTPH-Gx	959471
10701680008	SB-14-9	NWTPH-Gx	959419	NWTPH-Gx	959471
10701680009	SB-15-2.5	NWTPH-Gx	959419	NWTPH-Gx	959471
10701680010	SB-16-12	NWTPH-Gx	959419	NWTPH-Gx	959471
10701680011	SB-17-3	NWTPH-Gx	959419	NWTPH-Gx	959471
10701680012	SB-8-GW	NWTPH-Gx	960670		
10701680013	SB-9-GW	NWTPH-Gx	960670		
10701680014	SB-10-GW	NWTPH-Gx	960670		
10701680015	SB-11-GW	NWTPH-Gx	960670		
10701680001	SB-8-12	ASTM D2974	960741		
10701680002	SB-9-12	ASTM D2974	960741		
10701680003	SB-10-12	ASTM D2974	960741		
10701680004	SB-11-2.5	ASTM D2974	960741		
10701680005	SB-12-12	ASTM D2974	960741		
10701680006	SB-13-12	ASTM D2974	960741		
10701680007	SB-14-3	ASTM D2974	960741		
10701680008	SB-14-9	ASTM D2974	960741		
10701680009	SB-15-2.5	ASTM D2974	960741		
10701680010	SB-16-12	ASTM D2974	959483		
10701680011	SB-17-3	ASTM D2974	959483		
10701680001	SB-8-12	EPA 5035/5030B	960914	EPA 8260D	961132
10701680002	SB-9-12	EPA 5035/5030B	960914	EPA 8260D	961132
10701680003	SB-10-12	EPA 5035/5030B	960914	EPA 8260D	961132
10701680004	SB-11-2.5	EPA 5035/5030B	960914	EPA 8260D	961132
10701680005	SB-12-12	EPA 5035/5030B	960914	EPA 8260D	961132
10701680006	SB-13-12	EPA 5035/5030B	960914	EPA 8260D	961132
10701680007	SB-14-3	EPA 5035/5030B	960914	EPA 8260D	961132
10701680008	SB-14-9	EPA 5035/5030B	960914	EPA 8260D	961132
10701680009	SB-15-2.5	EPA 5035/5030B	960914	EPA 8260D	961132
10701680010	SB-16-12	EPA 5035/5030B	960914	EPA 8260D	961132
10701680012	SB-8-GW	EPA 8260D	960674		
10701680013	SB-9-GW	EPA 8260D	960674		
10701680014	SB-10-GW	EPA 8260D	960674		
10701680015	SB-11-GW	EPA 8260D	960674		

REPORT OF LABORATORY ANALYSIS

Pace® Location Requested (City/State):
Pace Analytical Minnesota
1700 Elm Street, Suite 200
Minneapolis, MN 55414

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 10701680

10701680

Company Name:	A & M Engineering and Environmental Services, Inc.	Contact/Report To:	Dan Landry
Street Address:	1176 West 7th Avenue, Eugene, OR 97402	Phone #:	(541)743-2600
		E-Mail:	dlandry@aandmengineering.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Kdirt Soil Borings	Invoice To:	Accounts Payable
		Invoice E-Mail:	ap@aandmengineering.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [X] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Oregon

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Jennifer Gross
AcctNum / Client ID:
Table #:
Profile / Template: 27530
Prelog / Bottle Ord. ID: EZ 3137578

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	6010D Cd, Cr, Pb (HOLD) (5 day)	8260D VOCs (OR RBDM List) (5 Day)	8260D VOCs (OR RBDM List) (Std Turn)	8270E PAHSIM (HOLD) (5 day)	Dry Weight / %M by ASTM D2974 (5 day)	NWTPH-Dx (5 Day)	NWTPH-Gx (Std Turn)	NWTPH-Gx GCV (5 day)	Sample Comment	Preservation non-conformance identified for sample.
SB-8-12	SS	G			7/24/24	0820	5					X				X		001	
SB-9-12	SS	G			7/24/24	0945	5					X				X		002	
SB-10-12	SS	G			7/24/24	1015	5					X				X		003	
SB-11-2.5	SS	G			7/24/24	1045	5					X				X		004	
SB-12-12	SS	G			7/24/24	1200	5					X				X		005	
SB-13-12	SS	G			7/24/24	1230	5					X				X		006	
SB-14-3	SS	G			7/24/24	1330	5					X				X		007	
SB-14-9	SS	G			7/24/24	1350	5					X				X		008	
SB-15-2.5	SS	G			7/24/24	1410	5					X				X		009	
SB-16-12	SS	G			7/24/24	1450	6					X	X		X	X		HOLD SOIL FOR PAHs	010

Additional Instructions from Pace®:
Samples were collected in Lane County, OR

Collected By:
(Printed Name) DAVID SEAVER
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T4	true	2.5°C	2.5	✓

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
A+M	7/25/24 1500	Patrick/Pace	7/25/2024 09:00
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 2

Pace® Location Requested (City/State):
Pace Analytical Minnesota
1700 Elm Street, Suite 200
Minneapolis, MN 55414

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	A & M Engineering and Environmental Services, Inc.	Contact/Report To:	Dan Landry
Street Address:	1176 West 7th Avenue, Eugene, OR 97402	Phone #:	(541)743-2600
		E-Mail:	dlandry@aandmengineering.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Kdirt Soil Borings	Invoice To:	Accounts Payable
		Invoice E-Mail:	ap@aandmengineering.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [ ] ET	County / State origin of sample(s):	Oregon
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No		
	Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other	DW PWSID # or WW Permit # as applicable:	
	Date Results Requested:	Field Filtered (if applicable): [ ] Yes [ ] No	
		Analysis:	

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Jennifer Gross; AcctNum / Client ID:; Table #:; Profile / Template: 27530; Prelog / Bottle Ord. ID: EZ 3137578

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	6010D Cd, Cr, Pb (HOLD) (5 day)	8260D VOCs (OR RBDM List) (5 Day)	8260D VOCs (OR RBDM List) (Std Turn)	8270E PAHSIM (HOLD) (5 day)	Dry Weight / %M by ASTM D2974 (5 day)	NWTPH-Dx (5 Day)	NWTPH-Gx (Std Turn)	NWTPH-Gx GCV (5 day)	Sample Comment	Preservation non-conformance identified for sample.
SB-17-3	SS	G			7/25/24	0930	6			DW	X	X	X	X		X		Hold 8260 sample 011	
SB-8-GW	GW	G			7/24/24	0930	6					X				X		012	
SB-9-GW	GW	G			7/24/24	1015	6					X				X		013	
SB-10-GW	GW	G			7/24/24	1120	6					X				X		014	
SB-11-GW	GW	G			7/24/24	1245	6					X				X		015	
Soil Trip Blank																		Hold 016	
GW Trip Blank																		Hold 017	

Additional Instructions from Pace®:
Samples were collected in Lane County, OR

Collected By:
(Printed Name) DAVID SCAVEN
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	T4	true	2.5	2.5	✓

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
DWell A+M	7/25/24 1500	Patrick/Pace	26JUL2024 0900

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 2 of 2

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME: A & M Engineering and Environmental Services Inc. **PROJECT #:**

WO#: 10701680

PM: JMG **Due Date: 08/09/24**

CLIENT: A&M Engineer

COURIER: ☐ Client ☐ Commercial ☑ FedEx ☐ Pace ☐ SpeeDee ☐ UPS ☐ USPS

TRACKING NUMBER: 7151 6117 1951 ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☑ YES ☐ NO **Seals Intact:** ☑ YES ☐ NO **Biological Tissue Frozen:** ☐ YES ☐ NO ☑ N/A

Packing Material: ☑ Bubble Bags ☑ Bubble Wrap ☐ None ☐ Other **Temp Blank:** ☐ YES ☑ NO **Type of Ice:** ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☑ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710)

Did Samples Originate in West Virginia: ☐ YES ☑ NO	**Were All Container Temps taken:** ☐ YES ☐ NO ☑ N/A
Correction Factor: true **Cooler Temp Read w/Temp Blank:** ____ °C **Cooler Temp Corrected w/Temp Blank:** ____ °C	**Average Corrected Temp (no Temp Blank Only):** 2.5 °C
NOTE: *Temp should be above freezing to 6°C.*	☑ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container
USDA Regulated Soil: ☐ N/A – Water Sample/Other (describe): ____	**Initials & Date of Person Examining Contents:** PJL 26 JUL 2024
Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☐ NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☑ NO
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.	

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out?	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		1.
Sampler Name and/or Signature on COC?	☑	☐	☐	3.
Samples Arrived within Hold Time?	☑	☐		4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Other: ____
Rush Turn Around Time Requested?	☐	☑		1.
Sufficient Sample Volume?	☑	☐		7.
Correct Containers Used?	☑	☐	☐	8.
– Pace Containers Used?	☑	☐		
Containers Intact?	☑	☐		1.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
Is sufficient information available to reconcile the samples to the COC? **NOTE:** If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☑ Soil ☑ Water ☐ Other	☑	☐		11. **If NO, write ID/Date/Time of container below:** ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12. Sample #:
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☑	☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS	☑	☐	☐	Positive for Residual Chlorine: ☐ YES ☐ NO
NOTE: If adding preservation to the container, **verify with the PM first.** Clients may require adding preservative to the field and equipment blanks when this occurs.				**pH Paper Lot #** (Residual Chlorine / 0-6 Roll / 0-6 Strip / 0-14 Strip) ☐ See Exceptions form ENV-FRM-MIN4-0142
Headspace in Methyl Mercury Container?	☐	☐	☑	13.
Extra labels present on soil VOA or WIDRO containers?	☐	☑	☐	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☐	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☑	☐	☐	15. 474278 - VA9H
Trip Blank Custody Seals Present?	☑	☐	☐	Pace Trip Blank Lot # (if purchased): 100223-3 VA9M

CLIENT NOTIFICATION / RESOLUTION **FIELD DATA REQUIRED:** ☐ YES ☐ NO

Person Contacted: Dan Landry Date & Time: 7/30/24

Comments / Resolution: Rush NWTPH-Gx on sample -011.

Project Manager Review: Jenni Gross **Date:** 7/29/24

NOTE: *When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*

Labeled By: PJL **Line:** 3

Workorder #: 10701680 (7/29/24 JMG)

No Temp Blank		
Read Temp	**Corrected Temp**	**Average temp**
1.3 °C	1.3°C	2.5°C
2.4 °C	2.4°C	
3.0 °C	3.0°C	
3.1 °C	3.1°C	

PM Notified of Out of Temp Cooler? ☐ YES ☐ NO

If yes, indicate who was contacted, date and time.
If no, indicate reason why.

Multiple Cooler Project? ☐ YES ☐ NO

If anything is OVER 6.0°C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition? YES	In Compliance After Addition? NO	Initials
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	

Comments:

ENV-FRM-MIN4-0154 v03_USDA Regulated Soil Checklist

SECTION TO BE COMPLETED BY SAMPLE RECEIVING:

WO #: 10701680 (7/29/24 JMG) **Date:** 26 Jul 2024 **Initials:** PJL

Sample Origin (check one): ☑ DOMESTIC ☐ DOMESTIC REGULATED ☐ QUARANTINED ☐ FOREIGN

NOTE: *Soil samples from Guam, Hawaii, Puerto Rico, and the US Virgin Islands are Foreign originated.*

If **DOMESTIC**, circle state of origin: AL AR AZ CA FL GA LA MS NC NM NY OK OR SC TN TX VA List County: _____

NOTE: *USDA Permit/Compliance Agreement authorizes movement of samples from these domestic regulated zones. Includes IFA, SOD, Golden Nematode, Karnal Bunt, and Witchweed.*

If **QUARANTINED**, circle state of origin: CA ID NY TX List County: _____

NOTE: *Movement is not authorized for Pale Cyst Nematode (ID)—remaining quarantines require additional paperwork.*

If **FOREIGN**, list country of origin: _____

NOTE: *Movement from some Canadian Provinces is not allowed. Refer to ENV-GUI-MIN4-0086 Regulated Soil Guide.*

REQUIREMENT	ACTION	COMPLETED YES	NO	N/A
PPQ-530 Paperwork must be included for any samples from counties with a Fruit Fly Quarantine in CA, NY, and TX. *Reference ENV-SOP-MIN4-0095.*	Scan PPQ-530 to the corresponding project folder on the X:drive. If PPQ-530 is not present, contact the laboratory's designated USDA permit holder. **DO NOT continue processing samples.**	☐	☐	☑
Samples from ID may not be moved from the quarantined region. *Reference ENV-SOP-MIN4-0095.*	If samples originated in a quarantined zone, contact the laboratory's designated USDA permit holder. **DO NOT continue processing samples.**	☐	☐	☑
"Special Handling" stickers are to be placed on all samples.	Did "special handling" stickers get placed on all sample containers?	☑	☐	☐
Samples must be segregated and stored in designated bins, shelves, and coolers.	Were samples placed in a designated cooler, containers, and shelves?	☑	☐	☐
Samples must be double contained to prevent accidental release.	Were there any signs of breakage or leakage (check for broken glass and/or loose soil in the cooler)? **NOTE:** If **NO**, ice and melt water can be disposed of by normal process (ex: down the drain).	☑	☐	☐
	If **YES**, were ice and melt water separated from the cooler and disposed of properly?	☑	☐	☐
	Any broken glass and/or loose soil are to be bagged and placed in a USDA Regulated satellite container or active drum (see Waste Coordinator). **Ice and melt water should be baked at a temperature range of 121-154°F for 2 hours and then cooled before going down the drain.**			
Equipment and supplies that have come into contact samples must be decontaminated.	Was the cooler(s) and/or countertop(s) decontaminated using either a fresh 10% bleach solution or 70% ethanol? **NOTE:** Gloves and other lab supplies will be bagged and placed in the USDA Regulated satellite container or active drum.	☑	☐	

COMMENT(S):

SECTION TO BE COMPLETED BY PROJECT MANAGEMENT (PM and/or PC):

Sample analysis will be completed by (check all that apply): ☒ MN ☐ SUBCONTRACT LAB

If **SUBCONTRACT**, list lab(s): _____

REQUIREMENT	ACTION	COMPLETED YES	NO	N/A
Permission to ship untreated soil must be on file prior to shipping to any subcontract lab, including IR Pace Labs.	Go to: *S:\CLIENTSVR\10_Client Services Department Documents\Regulated Soils Permits\Permission to Ship.* If permission to ship letter is not there, contact the laboratory's designated USDA permit holder.	☐	☐	☒
Shipment must include a valid copy of the receiving lab's permit as well as permission to ship letter.	Is a copy of all needed paperwork included with the COC? **DO NOT ship samples until all necessary paperwork is compiled.**	☐	☐	☒

COMMENT(S):

PM Signature: Jenni Gross **Date:** 7/29/24

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

August 20, 2024

Dan Landry
A & M Engineering and Environmental Services, Inc.
1176 West 7th Avenue
Eugene, OR 97402

RE: Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

Dear Dan Landry:

Enclosed are the analytical results for sample(s) received by the laboratory on July 18, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Minneapolis

This report was revised on August XX, 2024, to report TCLP chromium by method 6010D on Pace sample 10700449-001.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Dave Seaver, A & M Engineering and Environmental Services, Inc.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10700449001	**WO-N-7**	Solid	07/16/24 14:35	07/18/24 08:50
10700449002	**WO-S-7**	Solid	07/16/24 14:45	07/18/24 08:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10700449001	**WO-N-7**	NWTPH-Dx	TT2	4	PASI-M
		NWTPH-Gx	TM2	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	3	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270E by SIM	GY1	18	PASI-M
		EPA 8260D	ZB	72	PASI-M
10700449002	**WO-S-7**	NWTPH-Dx	TT2	4	PASI-M
		NWTPH-Gx	TM2	2	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

Sample: WO-N-7 **Lab ID: 10700449001** Collected: 07/16/24 14:35 Received: 07/18/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Microwave	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis								
Diesel Fuel Range	**53.3**	mg/kg	20.0	5.0	1	07/19/24 09:01	07/22/24 16:10	68334-30-5	
Motor Oil Range	**364**	mg/kg	13.3	6.0	1	07/19/24 09:01	07/22/24 16:10		M1
Surrogates									
n-Triacontane (S)	79	%.	50-150		1	07/19/24 09:01	07/22/24 16:10		
o-Terphenyl (S)	77	%.	50-150		1	07/19/24 09:01	07/22/24 16:10	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<2.7**	mg/kg	8.4	2.7	1	07/19/24 17:48	07/19/24 22:20		
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%.	50-150		1	07/19/24 17:48	07/19/24 22:20	98-08-8	
6010D MET ICP, TCLP MICRO	Analytical Method: EPA 6010D Preparation Method: EPA 3015A Leachate Method/Date: EPA 1311; 08/14/24 12:59 Pace Analytical Services - Minneapolis								
Chromium	**<6.3**	ug/L	100	6.3	1	08/15/24 08:31	08/15/24 15:06	7440-47-3	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis								
Cadmium	**<0.061**	mg/kg	0.38	0.061	2	07/25/24 17:48	07/26/24 15:03	7440-43-9	D3
Chromium	**26.9**	mg/kg	1.3	0.37	2	07/25/24 17:48	07/26/24 15:03	7440-47-3	
Lead	**11.1**	mg/kg	1.3	0.39	2	07/25/24 17:48	07/26/24 15:03	7439-92-1	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	**25.7**	%	0.10	0.10	1		07/19/24 10:52		N2
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis								
Acenaphthene	**<1.4**	ug/kg	13.4	1.4	1	07/24/24 07:53	07/26/24 01:01	83-32-9	
Acenaphthylene	**5.0J**	ug/kg	13.4	1.3	1	07/24/24 07:53	07/26/24 01:01	208-96-8	
Anthracene	**<2.7**	ug/kg	13.4	2.7	1	07/24/24 07:53	07/26/24 01:01	120-12-7	
Benzo(a)anthracene	**<3.4**	ug/kg	13.4	3.4	1	07/24/24 07:53	07/26/24 01:01	56-55-3	
Benzo(a)pyrene	**<5.1**	ug/kg	13.4	5.1	1	07/24/24 07:53	07/26/24 01:01	50-32-8	
Benzo(b)fluoranthene	**<3.8**	ug/kg	13.4	3.8	1	07/24/24 07:53	07/26/24 01:01	205-99-2	
Benzo(g,h,i)perylene	**14.5**	ug/kg	13.4	5.1	1	07/24/24 07:53	07/26/24 01:01	191-24-2	
Benzo(k)fluoranthene	**<4.4**	ug/kg	13.4	4.4	1	07/24/24 07:53	07/26/24 01:01	207-08-9	
Chrysene	**<3.4**	ug/kg	13.4	3.4	1	07/24/24 07:53	07/26/24 01:01	218-01-9	
Dibenz(a,h)anthracene	**<5.7**	ug/kg	13.4	5.7	1	07/24/24 07:53	07/26/24 01:01	53-70-3	
Fluoranthene	**3.4J**	ug/kg	13.4	2.6	1	07/24/24 07:53	07/26/24 01:01	206-44-0	
Fluorene	**<1.9**	ug/kg	13.4	1.9	1	07/24/24 07:53	07/26/24 01:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**<6.0**	ug/kg	13.4	6.0	1	07/24/24 07:53	07/26/24 01:01	193-39-5	
Naphthalene	**<3.9**	ug/kg	13.4	3.9	1	07/24/24 07:53	07/26/24 01:01	91-20-3	
Phenanthrene	**<2.6**	ug/kg	13.4	2.6	1	07/24/24 07:53	07/26/24 01:01	85-01-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

Sample: WO-N-7 **Lab ID: 10700449001** Collected: 07/16/24 14:35 Received: 07/18/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis								
Pyrene	**6.6J**	ug/kg	13.4	2.7	1	07/24/24 07:53	07/26/24 01:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%.	48-125		1	07/24/24 07:53	07/26/24 01:01	321-60-8	
p-Terphenyl-d14 (S)	78	%.	51-139		1	07/24/24 07:53	07/26/24 01:01	1718-51-0	
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis								
1,1,1,2-Tetrachloroethane	**<28.5**	ug/kg	84.3	28.5	1	07/24/24 09:31	07/24/24 19:18	630-20-6	
1,1,1-Trichloroethane	**<26.5**	ug/kg	84.3	26.5	1	07/24/24 09:31	07/24/24 19:18	71-55-6	
1,1,2,2-Tetrachloroethane	**<21.8**	ug/kg	84.3	21.8	1	07/24/24 09:31	07/24/24 19:18	79-34-5	
1,1,2-Trichloroethane	**<25.5**	ug/kg	84.3	25.5	1	07/24/24 09:31	07/24/24 19:18	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<34.2**	ug/kg	337	34.2	1	07/24/24 09:31	07/24/24 19:18	76-13-1	
1,1-Dichloroethane	**<23.3**	ug/kg	84.3	23.3	1	07/24/24 09:31	07/24/24 19:18	75-34-3	
1,1-Dichloroethene	**<22.4**	ug/kg	84.3	22.4	1	07/24/24 09:31	07/24/24 19:18	75-35-4	
1,1-Dichloropropene	**<21.6**	ug/kg	84.3	21.6	1	07/24/24 09:31	07/24/24 19:18	563-58-6	
1,2,3-Trichlorobenzene	**<26.3**	ug/kg	84.3	26.3	1	07/24/24 09:31	07/24/24 19:18	87-61-6	
1,2,3-Trichloropropane	**<29.4**	ug/kg	337	29.4	1	07/24/24 09:31	07/24/24 19:18	96-18-4	
1,2,4-Trichlorobenzene	**<27.3**	ug/kg	84.3	27.3	1	07/24/24 09:31	07/24/24 19:18	120-82-1	
1,2,4-Trimethylbenzene	**<24.5**	ug/kg	84.3	24.5	1	07/24/24 09:31	07/24/24 19:18	95-63-6	
1,2-Dibromo-3-chloropropane	**<141**	ug/kg	843	141	1	07/24/24 09:31	07/24/24 19:18	96-12-8	
1,2-Dibromoethane (EDB)	**<27.0**	ug/kg	84.3	27.0	1	07/24/24 09:31	07/24/24 19:18	106-93-4	
1,2-Dichlorobenzene	**<24.6**	ug/kg	84.3	24.6	1	07/24/24 09:31	07/24/24 19:18	95-50-1	
1,2-Dichloroethane	**<23.4**	ug/kg	84.3	23.4	1	07/24/24 09:31	07/24/24 19:18	107-06-2	
1,2-Dichloropropane	**<25.6**	ug/kg	84.3	25.6	1	07/24/24 09:31	07/24/24 19:18	78-87-5	
1,3,5-Trimethylbenzene	**<23.6**	ug/kg	84.3	23.6	1	07/24/24 09:31	07/24/24 19:18	108-67-8	
1,3-Dichlorobenzene	**<22.6**	ug/kg	84.3	22.6	1	07/24/24 09:31	07/24/24 19:18	541-73-1	
1,3-Dichloropropane	**<26.7**	ug/kg	84.3	26.7	1	07/24/24 09:31	07/24/24 19:18	142-28-9	
1,4-Dichlorobenzene	**<22.3**	ug/kg	84.3	22.3	1	07/24/24 09:31	07/24/24 19:18	106-46-7	
2,2-Dichloropropane	**<36.9**	ug/kg	337	36.9	1	07/24/24 09:31	07/24/24 19:18	594-20-7	
2-Butanone (MEK)	**<104**	ug/kg	422	104	1	07/24/24 09:31	07/24/24 19:18	78-93-3	
2-Chlorotoluene	**<24.0**	ug/kg	84.3	24.0	1	07/24/24 09:31	07/24/24 19:18	95-49-8	
4-Chlorotoluene	**<25.1**	ug/kg	84.3	25.1	1	07/24/24 09:31	07/24/24 19:18	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<163**	ug/kg	422	163	1	07/24/24 09:31	07/24/24 19:18	108-10-1	
Acetone	**<542**	ug/kg	1690	542	1	07/24/24 09:31	07/24/24 19:18	67-64-1	
Allyl chloride	**<149**	ug/kg	337	149	1	07/24/24 09:31	07/24/24 19:18	107-05-1	L1
Benzene	**<11.4**	ug/kg	33.7	11.4	1	07/24/24 09:31	07/24/24 19:18	71-43-2	
Bromobenzene	**<29.2**	ug/kg	84.3	29.2	1	07/24/24 09:31	07/24/24 19:18	108-86-1	
Bromochloromethane	**<26.7**	ug/kg	84.3	26.7	1	07/24/24 09:31	07/24/24 19:18	74-97-5	
Bromodichloromethane	**<34.4**	ug/kg	84.3	34.4	1	07/24/24 09:31	07/24/24 19:18	75-27-4	
Bromoform	**<161**	ug/kg	337	161	1	07/24/24 09:31	07/24/24 19:18	75-25-2	
Bromomethane	**<275**	ug/kg	843	275	1	07/24/24 09:31	07/24/24 19:18	74-83-9	
Carbon tetrachloride	**<30.9**	ug/kg	84.3	30.9	1	07/24/24 09:31	07/24/24 19:18	56-23-5	
Chlorobenzene	**<24.6**	ug/kg	84.3	24.6	1	07/24/24 09:31	07/24/24 19:18	108-90-7	
Chloroethane	**<204**	ug/kg	843	204	1	07/24/24 09:31	07/24/24 19:18	75-00-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

Sample: WO-N-7 **Lab ID: 10700449001** Collected: 07/16/24 14:35 Received: 07/18/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5030 Med Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035/5030B Pace Analytical Services - Minneapolis								
Chloroform	**<32.6**	ug/kg	84.3	32.6	1	07/24/24 09:31	07/24/24 19:18	67-66-3	
Chloromethane	**<52.0**	ug/kg	337	52.0	1	07/24/24 09:31	07/24/24 19:18	74-87-3	L1
Dibromochloromethane	**<83.5**	ug/kg	337	83.5	1	07/24/24 09:31	07/24/24 19:18	124-48-1	
Dibromomethane	**<34.4**	ug/kg	84.3	34.4	1	07/24/24 09:31	07/24/24 19:18	74-95-3	
Dichlorodifluoromethane	**<45.0**	ug/kg	337	45.0	1	07/24/24 09:31	07/24/24 19:18	75-71-8	
Dichlorofluoromethane	**<124**	ug/kg	843	124	1	07/24/24 09:31	07/24/24 19:18	75-43-4	
Diethyl ether (Ethyl ether)	**<58.2**	ug/kg	337	58.2	1	07/24/24 09:31	07/24/24 19:18	60-29-7	
Ethylbenzene	**<28.3**	ug/kg	84.3	28.3	1	07/24/24 09:31	07/24/24 19:18	100-41-4	
Hexachloro-1,3-butadiene	**<52.5**	ug/kg	422	52.5	1	07/24/24 09:31	07/24/24 19:18	87-68-3	
Isopropylbenzene (Cumene)	**<21.1**	ug/kg	84.3	21.1	1	07/24/24 09:31	07/24/24 19:18	98-82-8	
Methyl-tert-butyl ether	**<24.6**	ug/kg	84.3	24.6	1	07/24/24 09:31	07/24/24 19:18	1634-04-4	
Methylene Chloride	**<168**	ug/kg	337	168	1	07/24/24 09:31	07/24/24 19:18	75-09-2	
Naphthalene	**<24.0**	ug/kg	337	24.0	1	07/24/24 09:31	07/24/24 19:18	91-20-3	
Styrene	**<27.2**	ug/kg	84.3	27.2	1	07/24/24 09:31	07/24/24 19:18	100-42-5	
Tetrachloroethene	**<29.4**	ug/kg	84.3	29.4	1	07/24/24 09:31	07/24/24 19:18	127-18-4	
Tetrahydrofuran	**<174**	ug/kg	3370	174	1	07/24/24 09:31	07/24/24 19:18	109-99-9	
Toluene	**<19.6**	ug/kg	84.3	19.6	1	07/24/24 09:31	07/24/24 19:18	108-88-3	
Trichloroethene	**<22.8**	ug/kg	84.3	22.8	1	07/24/24 09:31	07/24/24 19:18	79-01-6	
Trichlorofluoromethane	**<99.0**	ug/kg	337	99.0	1	07/24/24 09:31	07/24/24 19:18	75-69-4	
Vinyl chloride	**<15.5**	ug/kg	33.7	15.5	1	07/24/24 09:31	07/24/24 19:18	75-01-4	L1
Xylene (Total)	**<47.9**	ug/kg	253	47.9	1	07/24/24 09:31	07/24/24 19:18	1330-20-7	
cis-1,2-Dichloroethene	**<25.5**	ug/kg	84.3	25.5	1	07/24/24 09:31	07/24/24 19:18	156-59-2	
cis-1,3-Dichloropropene	**<28.7**	ug/kg	84.3	28.7	1	07/24/24 09:31	07/24/24 19:18	10061-01-5	
m&p-Xylene	**<47.9**	ug/kg	169	47.9	1	07/24/24 09:31	07/24/24 19:18	179601-23-1	
n-Butylbenzene	**<21.4**	ug/kg	84.3	21.4	1	07/24/24 09:31	07/24/24 19:18	104-51-8	
n-Propylbenzene	**<21.1**	ug/kg	84.3	21.1	1	07/24/24 09:31	07/24/24 19:18	103-65-1	
o-Xylene	**<26.3**	ug/kg	84.3	26.3	1	07/24/24 09:31	07/24/24 19:18	95-47-6	
p-Isopropyltoluene	**<22.1**	ug/kg	84.3	22.1	1	07/24/24 09:31	07/24/24 19:18	99-87-6	
sec-Butylbenzene	**<21.8**	ug/kg	84.3	21.8	1	07/24/24 09:31	07/24/24 19:18	135-98-8	
tert-Butylbenzene	**<24.8**	ug/kg	84.3	24.8	1	07/24/24 09:31	07/24/24 19:18	98-06-6	
trans-1,2-Dichloroethene	**<22.4**	ug/kg	84.3	22.4	1	07/24/24 09:31	07/24/24 19:18	156-60-5	
trans-1,3-Dichloropropene	**<26.3**	ug/kg	84.3	26.3	1	07/24/24 09:31	07/24/24 19:18	10061-02-6	
Surrogates									
Toluene-d8 (S)	97	%.	75-125		1	07/24/24 09:31	07/24/24 19:18	2037-26-5	2M
4-Bromofluorobenzene (S)	94	%.	75-125		1	07/24/24 09:31	07/24/24 19:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125		1	07/24/24 09:31	07/24/24 19:18	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

Sample: WO-S-7 **Lab ID: 10700449002** Collected: 07/16/24 14:45 Received: 07/18/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Microwave	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546 Pace Analytical Services - Minneapolis								
Diesel Fuel Range	**19.1J**	mg/kg	20.5	5.1	1	07/19/24 09:01	07/22/24 16:43	68334-30-5	
Motor Oil Range	**138**	mg/kg	13.7	6.2	1	07/19/24 09:01	07/22/24 16:43		
Surrogates									
n-Triacontane (S)	83	%.	50-150		1	07/19/24 09:01	07/22/24 16:43		
o-Terphenyl (S)	76	%.	50-150		1	07/19/24 09:01	07/22/24 16:43	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<2.8**	mg/kg	8.9	2.8	1	07/19/24 17:48	07/19/24 22:52		
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%.	50-150		1	07/19/24 17:48	07/19/24 22:52	98-08-8	1M
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	**28.0**	%	0.10	0.10	1		07/19/24 10:52		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

QC Batch: 957401
QC Batch Method: NWTPH-Gx
Analysis Method: NWTPH-Gx
Analysis Description: NWTPH-Gx Solid GCV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10700449001, 10700449002

METHOD BLANK: 5004681 Matrix: Solid
Associated Lab Samples: 10700449001, 10700449002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<1.6	5.0	1.6	07/19/24 22:03	
a,a,a-Trifluorotoluene (S)	%.	95	50-150		07/19/24 22:03	

LABORATORY CONTROL SAMPLE & LCSD: 5004682 5004683

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	50	43.5	43.8	87	88	73-125	1	20	
a,a,a-Trifluorotoluene (S)	%.				102	95	50-150			

SAMPLE DUPLICATE: 5004684

Parameter	Units	10700449001 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<2.7	<2.7		30	
a,a,a-Trifluorotoluene (S)	%.	95	95			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

QC Batch: 962795
QC Batch Method: EPA 3015A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET ICP, TCLP MICRO
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10700449001

METHOD BLANK: 5031646 Matrix: Water
Associated Lab Samples: 10700449001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium	ug/L	<6.3	100	6.3	08/15/24 15:03	

LABORATORY CONTROL SAMPLE: 5031647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	5000	5200	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5031648 5031649

Parameter	Units	10703481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	ND	5000	5000	5210	5170	104	103	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
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QUALITY CONTROL DATA

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

QC Batch: 958557
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10700449001

METHOD BLANK: 5010621 Matrix: Solid
Associated Lab Samples: 10700449001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cadmium	mg/kg	<0.024	0.15	0.024	07/26/24 14:20	
Chromium	mg/kg	<0.14	0.48	0.14	07/26/24 14:20	
Lead	mg/kg	<0.15	0.48	0.15	07/26/24 14:20	

LABORATORY CONTROL SAMPLE: 5010622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	49.3	49.1	100	80-120	
Chromium	mg/kg	49.3	49.1	100	80-120	
Lead	mg/kg	49.3	48.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5010623 5010624

Parameter	Units	10699608001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/kg	ND	51.5	53.8	43.7	47.1	85	87	75-125	7	20	
Chromium	mg/kg	30.2	51.5	53.8	78.0	74.8	93	83	75-125	4	20	
Lead	mg/kg	96.3	51.5	53.8	142	144	89	88	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

QC Batch: 957434
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10700449001, 10700449002

SAMPLE DUPLICATE: 5004989

Parameter	Units	10700455001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.7	15.9	5	30	N2

SAMPLE DUPLICATE: 5004990

Parameter	Units	10699787022 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.1	10.3	3	30	N2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

QC Batch: 958293
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 5030 Med Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10700449001

METHOD BLANK: 5009185 Matrix: Solid
Associated Lab Samples: 10700449001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<16.9	50.0	16.9	07/24/24 13:12	
1,1,1-Trichloroethane	ug/kg	<15.7	50.0	15.7	07/24/24 13:12	
1,1,2,2-Tetrachloroethane	ug/kg	<12.9	50.0	12.9	07/24/24 13:12	
1,1,2-Trichloroethane	ug/kg	<15.1	50.0	15.1	07/24/24 13:12	
1,1,2-Trichlorotrifluoroethane	ug/kg	<20.3	200	20.3	07/24/24 13:12	
1,1-Dichloroethane	ug/kg	<13.8	50.0	13.8	07/24/24 13:12	
1,1-Dichloroethene	ug/kg	<13.3	50.0	13.3	07/24/24 13:12	
1,1-Dichloropropene	ug/kg	<12.8	50.0	12.8	07/24/24 13:12	
1,2,3-Trichlorobenzene	ug/kg	<15.6	50.0	15.6	07/24/24 13:12	
1,2,3-Trichloropropane	ug/kg	<17.4	200	17.4	07/24/24 13:12	
1,2,4-Trichlorobenzene	ug/kg	<16.2	50.0	16.2	07/24/24 13:12	
1,2,4-Trimethylbenzene	ug/kg	<14.5	50.0	14.5	07/24/24 13:12	
1,2-Dibromo-3-chloropropane	ug/kg	<83.3	500	83.3	07/24/24 13:12	
1,2-Dibromoethane (EDB)	ug/kg	<16.0	50.0	16.0	07/24/24 13:12	
1,2-Dichlorobenzene	ug/kg	<14.6	50.0	14.6	07/24/24 13:12	
1,2-Dichloroethane	ug/kg	<13.9	50.0	13.9	07/24/24 13:12	
1,2-Dichloropropane	ug/kg	<15.2	50.0	15.2	07/24/24 13:12	
1,3,5-Trimethylbenzene	ug/kg	<14.0	50.0	14.0	07/24/24 13:12	
1,3-Dichlorobenzene	ug/kg	<13.4	50.0	13.4	07/24/24 13:12	
1,3-Dichloropropane	ug/kg	<15.8	50.0	15.8	07/24/24 13:12	
1,4-Dichlorobenzene	ug/kg	<13.2	50.0	13.2	07/24/24 13:12	
2,2-Dichloropropane	ug/kg	<21.9	200	21.9	07/24/24 13:12	
2-Butanone (MEK)	ug/kg	<61.5	250	61.5	07/24/24 13:12	
2-Chlorotoluene	ug/kg	<14.2	50.0	14.2	07/24/24 13:12	
4-Chlorotoluene	ug/kg	<14.9	50.0	14.9	07/24/24 13:12	
4-Methyl-2-pentanone (MIBK)	ug/kg	<96.6	250	96.6	07/24/24 13:12	
Acetone	ug/kg	<321	1000	321	07/24/24 13:12	
Allyl chloride	ug/kg	<88.2	200	88.2	07/24/24 13:12	
Benzene	ug/kg	<6.7	20.0	6.7	07/24/24 13:12	
Bromobenzene	ug/kg	<17.3	50.0	17.3	07/24/24 13:12	
Bromochloromethane	ug/kg	<15.8	50.0	15.8	07/24/24 13:12	
Bromodichloromethane	ug/kg	<20.4	50.0	20.4	07/24/24 13:12	
Bromoform	ug/kg	<95.5	200	95.5	07/24/24 13:12	
Bromomethane	ug/kg	<163	500	163	07/24/24 13:12	
Carbon tetrachloride	ug/kg	<18.3	50.0	18.3	07/24/24 13:12	
Chlorobenzene	ug/kg	<14.6	50.0	14.6	07/24/24 13:12	
Chloroethane	ug/kg	<121	500	121	07/24/24 13:12	
Chloroform	ug/kg	<19.3	50.0	19.3	07/24/24 13:12	
Chloromethane	ug/kg	<30.8	200	30.8	07/24/24 13:12	
cis-1,2-Dichloroethene	ug/kg	<15.1	50.0	15.1	07/24/24 13:12	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

METHOD BLANK: 5009185 Matrix: Solid
Associated Lab Samples: 10700449001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	<17.0	50.0	17.0	07/24/24 13:12	
Dibromochloromethane	ug/kg	<49.5	200	49.5	07/24/24 13:12	
Dibromomethane	ug/kg	<20.4	50.0	20.4	07/24/24 13:12	
Dichlorodifluoromethane	ug/kg	<26.7	200	26.7	07/24/24 13:12	
Dichlorofluoromethane	ug/kg	<73.4	500	73.4	07/24/24 13:12	
Diethyl ether (Ethyl ether)	ug/kg	<34.5	200	34.5	07/24/24 13:12	
Ethylbenzene	ug/kg	<16.8	50.0	16.8	07/24/24 13:12	
Hexachloro-1,3-butadiene	ug/kg	<31.1	250	31.1	07/24/24 13:12	
Isopropylbenzene (Cumene)	ug/kg	<12.5	50.0	12.5	07/24/24 13:12	
m&p-Xylene	ug/kg	<28.4	100	28.4	07/24/24 13:12	
Methyl-tert-butyl ether	ug/kg	<14.6	50.0	14.6	07/24/24 13:12	
Methylene Chloride	ug/kg	<99.3	200	99.3	07/24/24 13:12	
n-Butylbenzene	ug/kg	<12.7	50.0	12.7	07/24/24 13:12	
n-Propylbenzene	ug/kg	<12.5	50.0	12.5	07/24/24 13:12	
Naphthalene	ug/kg	<14.2	200	14.2	07/24/24 13:12	
o-Xylene	ug/kg	<15.6	50.0	15.6	07/24/24 13:12	
p-Isopropyltoluene	ug/kg	<13.1	50.0	13.1	07/24/24 13:12	
sec-Butylbenzene	ug/kg	<12.9	50.0	12.9	07/24/24 13:12	
Styrene	ug/kg	<16.1	50.0	16.1	07/24/24 13:12	
tert-Butylbenzene	ug/kg	<14.7	50.0	14.7	07/24/24 13:12	
Tetrachloroethene	ug/kg	<17.4	50.0	17.4	07/24/24 13:12	
Tetrahydrofuran	ug/kg	<103	2000	103	07/24/24 13:12	
Toluene	ug/kg	<11.6	50.0	11.6	07/24/24 13:12	
trans-1,2-Dichloroethene	ug/kg	<13.3	50.0	13.3	07/24/24 13:12	
trans-1,3-Dichloropropene	ug/kg	<15.6	50.0	15.6	07/24/24 13:12	
Trichloroethene	ug/kg	<13.5	50.0	13.5	07/24/24 13:12	
Trichlorofluoromethane	ug/kg	<58.7	200	58.7	07/24/24 13:12	
Vinyl chloride	ug/kg	<9.2	20.0	9.2	07/24/24 13:12	
Xylene (Total)	ug/kg	<28.4	150	28.4	07/24/24 13:12	
1,2-Dichlorobenzene-d4 (S)	%.	101	75-125		07/24/24 13:12	
4-Bromofluorobenzene (S)	%.	97	75-125		07/24/24 13:12	
Toluene-d8 (S)	%.	97	75-125		07/24/24 13:12	

LABORATORY CONTROL SAMPLE & LCSD: 5009186 5009187

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1050	950	105	95	70-125	10	20	
1,1,1-Trichloroethane	ug/kg	1000	917	875	92	88	72-125	5	20	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1290	1090	129	109	56-138	17	20	
1,1,2-Trichloroethane	ug/kg	1000	1080	977	108	98	75-125	10	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1030	966	103	97	66-125	7	20	
1,1-Dichloroethane	ug/kg	1000	1100	1000	110	100	75-125	9	20	
1,1-Dichloroethene	ug/kg	1000	1080	1030	108	103	72-125	4	20	
1,1-Dichloropropene	ug/kg	1000	1090	1010	109	101	73-125	8	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

LABORATORY CONTROL SAMPLE & LCSD: 5009186 5009187

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	ug/kg	1000	1050	970	105	97	69-128	8	20	
1,2,3-Trichloropropane	ug/kg	1000	1080	943	108	94	75-125	14	20	
1,2,4-Trichlorobenzene	ug/kg	1000	1120	1020	112	102	65-131	9	20	
1,2,4-Trimethylbenzene	ug/kg	1000	1210	1160	121	116	66-129	5	20	
1,2-Dibromo-3-chloropropane	ug/kg	1000	933	775	93	78	59-125	18	20	
1,2-Dibromoethane (EDB)	ug/kg	1000	1140	1000	114	100	75-125	13	20	
1,2-Dichlorobenzene	ug/kg	1000	1080	1020	108	102	75-125	6	20	
1,2-Dichloroethane	ug/kg	1000	867	768	87	77	75-126	12	20	
1,2-Dichloropropane	ug/kg	1000	1170	1060	117	106	75-125	10	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1200	1150	120	115	66-129	4	20	
1,3-Dichlorobenzene	ug/kg	1000	1150	1080	115	108	70-125	6	20	
1,3-Dichloropropane	ug/kg	1000	1130	1030	113	103	74-125	9	20	
1,4-Dichlorobenzene	ug/kg	1000	1120	1070	112	107	68-125	5	20	
2,2-Dichloropropane	ug/kg	1000	1000	914	100	91	53-125	9	20	
2-Butanone (MEK)	ug/kg	5000	4890	4020	98	80	75-125	19	20	
2-Chlorotoluene	ug/kg	1000	1190	1150	119	115	68-127	3	20	
4-Chlorotoluene	ug/kg	1000	1190	1130	119	113	70-126	5	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5580	4640	112	93	73-130	18	20	
Acetone	ug/kg	5000	5040	3970	101	79	72-125	24	20	R1
Allyl chloride	ug/kg	1000	1440	1280	144	128	65-129	12	20	L1
Benzene	ug/kg	1000	1120	1050	112	105	75-125	6	20	
Bromobenzene	ug/kg	1000	1120	1080	112	108	73-125	4	20	
Bromochloromethane	ug/kg	1000	1130	975	113	97	75-125	15	20	
Bromodichloromethane	ug/kg	1000	973	892	97	89	71-125	9	20	
Bromoform	ug/kg	1000	847	748	85	75	60-125	12	20	
Bromomethane	ug/kg	1000	897	863	90	86	60-125	4	20	
Carbon tetrachloride	ug/kg	1000	881	801	88	80	63-126	9	20	
Chlorobenzene	ug/kg	1000	1080	1010	108	101	75-125	6	20	
Chloroethane	ug/kg	1000	819	764	82	76	68-127	7	20	
Chloroform	ug/kg	1000	1010	948	101	95	73-125	6	20	
Chloromethane	ug/kg	1000	1370	1300	137	130	61-126	5	20	L1
cis-1,2-Dichloroethene	ug/kg	1000	1110	1020	111	102	75-125	8	20	
cis-1,3-Dichloropropene	ug/kg	1000	1110	1020	111	102	70-125	9	20	
Dibromochloromethane	ug/kg	1000	915	812	91	81	69-125	12	20	
Dibromomethane	ug/kg	1000	995	874	99	87	71-125	13	20	
Dichlorodifluoromethane	ug/kg	1000	1240	1120	124	112	54-125	10	20	
Dichlorofluoromethane	ug/kg	1000	1220	1180	122	118	68-140	3	20	
Diethyl ether (Ethyl ether)	ug/kg	1000	1180	1080	118	108	75-125	8	20	
Ethylbenzene	ug/kg	1000	1130	1080	113	108	70-125	4	20	
Hexachloro-1,3-butadiene	ug/kg	1000	1030	982	103	98	56-144	5	20	
Isopropylbenzene (Cumene)	ug/kg	1000	1070	1020	107	102	72-125	5	20	
m&p-Xylene	ug/kg	2000	2260	2110	113	105	71-125	7	20	
Methyl-tert-butyl ether	ug/kg	1000	1020	896	102	90	75-125	13	20	
Methylene Chloride	ug/kg	1000	1140	1030	114	103	75-125	10	20	
n-Butylbenzene	ug/kg	1000	1200	1140	120	114	59-125	5	20	
n-Propylbenzene	ug/kg	1000	1260	1230	126	123	70-131	3	20	
Naphthalene	ug/kg	1000	1200	1050	120	105	67-126	14	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

LABORATORY CONTROL SAMPLE & LCSD: 5009186 5009187

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
o-Xylene	ug/kg	1000	1140	1090	114	109	67-125	5	20	
p-Isopropyltoluene	ug/kg	1000	1180	1150	118	115	67-129	3	20	
sec-Butylbenzene	ug/kg	1000	1230	1180	123	118	69-130	3	20	
Styrene	ug/kg	1000	1120	1040	112	104	73-125	7	20	
tert-Butylbenzene	ug/kg	1000	1160	1130	116	113	68-129	2	20	
Tetrachloroethene	ug/kg	1000	1030	1010	103	101	65-125	3	20	
Tetrahydrofuran	ug/kg	5000	5340	4360	107	87	75-125	20	20	
Toluene	ug/kg	1000	1010	935	101	93	72-125	8	20	
trans-1,2-Dichloroethene	ug/kg	1000	1130	1100	113	110	72-125	2	20	
trans-1,3-Dichloropropene	ug/kg	1000	1100	975	110	97	72-125	12	20	
Trichloroethene	ug/kg	1000	994	947	99	95	73-127	5	20	
Trichlorofluoromethane	ug/kg	1000	1090	1080	109	108	51-150	1	20	
Vinyl chloride	ug/kg	1000	1410	1290	141	129	64-128	9	20	L1
Xylene (Total)	ug/kg	3000	3400	3190	113	106	70-125	6	20	
1,2-Dichlorobenzene-d4 (S)	%.				97	95	75-125			
4-Bromofluorobenzene (S)	%.				92	91	75-125			
Toluene-d8 (S)	%.				95	94	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

QC Batch: 958268
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E Solid PAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10700449001

METHOD BLANK: 5009141 Matrix: Solid
Associated Lab Samples: 10700449001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/kg	<1.0	10.0	1.0	07/25/24 21:20	
Acenaphthylene	ug/kg	<1.0	10.0	1.0	07/25/24 21:20	
Anthracene	ug/kg	<2.0	10.0	2.0	07/25/24 21:20	
Benzo(a)anthracene	ug/kg	<2.6	10.0	2.6	07/25/24 21:20	
Benzo(a)pyrene	ug/kg	<3.8	10.0	3.8	07/25/24 21:20	
Benzo(b)fluoranthene	ug/kg	<2.8	10.0	2.8	07/25/24 21:20	
Benzo(g,h,i)perylene	ug/kg	<3.8	10.0	3.8	07/25/24 21:20	
Benzo(k)fluoranthene	ug/kg	<3.3	10.0	3.3	07/25/24 21:20	
Chrysene	ug/kg	<2.5	10.0	2.5	07/25/24 21:20	
Dibenz(a,h)anthracene	ug/kg	<4.2	10.0	4.2	07/25/24 21:20	
Fluoranthene	ug/kg	<1.9	10.0	1.9	07/25/24 21:20	
Fluorene	ug/kg	<1.4	10.0	1.4	07/25/24 21:20	
Indeno(1,2,3-cd)pyrene	ug/kg	<4.4	10.0	4.4	07/25/24 21:20	
Naphthalene	ug/kg	<2.9	10.0	2.9	07/25/24 21:20	
Phenanthrene	ug/kg	<1.9	10.0	1.9	07/25/24 21:20	
Pyrene	ug/kg	<2.0	10.0	2.0	07/25/24 21:20	
2-Fluorobiphenyl (S)	%.	78	48-125		07/25/24 21:20	
p-Terphenyl-d14 (S)	%.	109	51-139		07/25/24 21:20	

LABORATORY CONTROL SAMPLE: 5009142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	100	69.2	69	45-125	
Acenaphthylene	ug/kg	100	67.4	67	43-125	
Anthracene	ug/kg	100	74.3	74	59-125	
Benzo(a)anthracene	ug/kg	100	85.8	86	66-125	
Benzo(a)pyrene	ug/kg	100	81.1	81	65-125	
Benzo(b)fluoranthene	ug/kg	100	88.5	89	61-125	
Benzo(g,h,i)perylene	ug/kg	100	79.1	79	64-125	
Benzo(k)fluoranthene	ug/kg	100	83.8	84	65-125	
Chrysene	ug/kg	100	83.1	83	63-125	
Dibenz(a,h)anthracene	ug/kg	100	82.0	82	63-125	
Fluoranthene	ug/kg	100	80.0	80	62-125	
Fluorene	ug/kg	100	69.2	69	51-125	
Indeno(1,2,3-cd)pyrene	ug/kg	100	80.8	81	61-125	
Naphthalene	ug/kg	100	68.2	68	37-125	
Phenanthrene	ug/kg	100	78.0	78	60-125	
Pyrene	ug/kg	100	91.6	92	65-125	
2-Fluorobiphenyl (S)	%.			66	48-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

LABORATORY CONTROL SAMPLE: 5009142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			95	51-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5009143 5009144

Parameter	Units	10700449003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	2.0J	135	135	107	110	78	80	30-131	2	30	
Acenaphthylene	ug/kg	<1.4	135	135	104	111	77	82	36-125	6	30	
Anthracene	ug/kg	2.8J	135	135	121	118	88	85	35-131	3	30	
Benzo(a)anthracene	ug/kg	4.7J	135	135	125	121	89	86	30-150	4	30	
Benzo(a)pyrene	ug/kg	<5.2	135	135	115	103	82	73	30-148	11	30	
Benzo(b)fluoranthene	ug/kg	10.8J	135	135	140	140	96	95	30-150	0	30	
Benzo(g,h,i)perylene	ug/kg	20.6	135	135	99.3	123	58	75	34-142	21	30	
Benzo(k)fluoranthene	ug/kg	<4.5	135	135	109	100	81	74	30-150	8	30	
Chrysene	ug/kg	14.4	135	135	119	113	78	73	30-150	5	30	
Dibenz(a,h)anthracene	ug/kg	<5.7	135	135	93.4	102	69	75	50-125	9	30	
Fluoranthene	ug/kg	12.6J	135	135	117	126	78	84	30-150	7	30	
Fluorene	ug/kg	3.2J	135	135	112	112	81	81	35-128	0	30	
Indeno(1,2,3-cd)pyrene	ug/kg	6.2J	135	135	96.8	102	67	71	30-150	5	30	
Naphthalene	ug/kg	5.7J	135	135	95.7	104	67	73	30-125	8	30	
Phenanthrene	ug/kg	5.2J	135	135	114	117	81	82	30-150	2	30	
Pyrene	ug/kg	40.4	135	135	179	174	102	99	30-150	3	30	
2-Fluorobiphenyl (S)	%.						73	78	48-125			
p-Terphenyl-d14 (S)	%.						86	89	51-139			

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REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALITY CONTROL DATA

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

QC Batch: 957451
QC Batch Method: EPA 3546
Analysis Method: NWTPH-Dx
Analysis Description: NWTPH-Dx GCS Microwave
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10700449001, 10700449002

METHOD BLANK: 5005033 Matrix: Solid
Associated Lab Samples: 10700449001, 10700449002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	mg/kg	<3.8	15.0	3.8	07/22/24 15:48	
Motor Oil Range	mg/kg	<4.5	10.0	4.5	07/22/24 15:48	
n-Triacontane (S)	%.	91	50-150		07/22/24 15:48	
o-Terphenyl (S)	%.	84	50-150		07/22/24 15:48	

LABORATORY CONTROL SAMPLE: 5005034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range	mg/kg	50	41.5	83	50-150	
Motor Oil Range	mg/kg	50	44.0	88	50-150	
n-Triacontane (S)	%.			89	50-150	
o-Terphenyl (S)	%.			86	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5005035 5005036

Parameter	Units	10700449001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel Range	mg/kg	53.3	66.6	66.5	104	111	77	86	50-150	6	30	
Motor Oil Range	mg/kg	364	66.6	66.5	435	469	107	159	50-150	8	30	M1
n-Triacontane (S)	%.						80	81	50-150			
o-Terphenyl (S)	%.						83	81	50-150			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 957645

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 959327

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
[1]	On 7/24/24 the continuing calibration verification was below the method acceptance limit for bromomethane and chloroethane. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
[2]	On 7/24/24 the continuing calibration verification was above the method acceptance limit for chloromethane and vinyl chloride. Any detection for the analyte in the associated samples may have a high bias.

ANALYTE QUALIFIERS

1M	Preserved from a glass jar with headspace outside of 48 hrs from collection.
2M	Preserved from packed glass jar outside of 48 hours from collection.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2628-0003/2 Kdirt-Hwy99N
Pace Project No.: 10700449

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10700449001	**WO-N-7**	EPA 3546	957451	NWTPH-Dx	958002
10700449002	**WO-S-7**	EPA 3546	957451	NWTPH-Dx	958002
10700449001	**WO-N-7**	NWTPH-Gx	957401	NWTPH-Gx	957645
10700449002	**WO-S-7**	NWTPH-Gx	957401	NWTPH-Gx	957645
10700449001	**WO-N-7**	EPA 3015A	962795	EPA 6010D	962898
10700449001	**WO-N-7**	EPA 3050B	958557	EPA 6010D	958778
10700449001	**WO-N-7**	ASTM D2974	957434		
10700449002	**WO-S-7**	ASTM D2974	957434		
10700449001	**WO-N-7**	EPA 3546	958268	EPA 8270E by SIM	958749
10700449001	**WO-N-7**	EPA 5035/5030B	958293	EPA 8260D	959327

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1580167

Section A Required Client Information:

Company: A&M Engr.
Address: 1176 W. 7th Ave
Eugene, OR 97402
Email To: dlandy@aandmengineering.com
Phone: 541-743-2600 Fax:
Requested Due Date/TAT: 3-day

Section B Required Project Information:

Report To: Dan Landry
Copy To:
Purchase Order No.:
Project Name: Kdist - Hwy 99N
Project Number: 2628-0003/2

Section C Invoice Information:

Attention:
Company Name: A&M Engr.
Address:
Pace Quote Reference:
Pace Project Manager: Jennifer Gross
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: OR

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	NWTPH-Gx	NWTPH-Dx	Lead, Cadmium	PAHs 8270SIM	VOCs Full List	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WO-N-1	SL	G			7-16-24	14:35		2	X							X		X	X	X	X	X			001
2	WO-S-1	SL	G			7-16-24	14:45		2	X							X		X	X	X	X	X			002
3	Stockpile	SL	G			7-16-24	14:50		2	X							X		X	X	X	X	X			003
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

Requested Analysis Filtered (Y/N)

Hold

Hold, metals PAHs, VOCs.

WO#: 10700449

10700449

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
3-day of Gx & Dx rest to be determined	Dan Landry A&M Engr.	7-16-24	15:00	same pace	7/19/24	8:50	1.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dan Landry
SIGNATURE of SAMPLER: Dan Landry
DATE Signed (MM/DD/YY): 7-16-2024

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

ENV-FRM-MIN4-0150 v17 Sample Condition Upon Receipt

CLIENT NAME: A&M Engr. PROJECT #: **WO#: 10700449**

PM: JMG Due Date: 07/23/24

CLIENT: A&M Engineer

COURIER: ☐ Client ☐ Commercial ☑ FedEx ☐ Pace ☐ SpeeDee ☐ UPS ☐ USPS

TRACKING NUMBER: 7773 9919 1753 ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☑ YES ☐ NO Seals Intact: ☑ YES ☐ NO Biological Tissue Frozen: ☐ YES ☐ NO ☑ N/A

Packing Material: ☐ Bubble Bags ☑ Bubble Wrap ☐ None ☐ Other Temp Blank: ☑ YES ☐ NO Type of Ice: ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Thermometer: ☑ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710)

Did Samples Originate in West Virginia: ☐ YES ☑ NO	Were All Container Temps taken: ☐ YES ☐ NO ☑ N/A
Correction Factor: +1.2 Cooler Temp Read w/Temp Blank: 0.9 °C Cooler Temp Corrected w/Temp Blank: 1.1 °C	Average Corrected Temp (no Temp Blank Only): _____ °C
NOTE: Temp should be above freezing to 6°C.	☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container
USDA Regulated Soil: ☐ N/A – Water Sample/Other (describe): Soil	Initials & Date of Person Examining Contents: SMC 7/18/24
Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☑ YES ☐ NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☑ NO
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.	

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out?	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☑	☐	☑	3.
Samples Arrived within Hold Time?	☑	☐		4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐No
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐Ortho Phos ☐ Total coliform/*E. coli* ☐ Other: _____
Rush Turn Around Time Requested?	☑	☐		6. 3 day
Sufficient Sample Volume?	☑	☐		7.
Correct Containers Used?	☑	☐	☐	8.
-- Pace Containers Used?	☑	☐		
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
Is sufficient information available to reconcile the samples to the COC? **NOTE:** If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☑ Soil ☐ Water ☐ Other	☑	☐		11. **If NO, write ID/Date/Time of container below:** ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12. Sample #:
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☑	☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS	☐	☐	☑	Positive for Residual Chlorine: ☐ YES ☐NO
NOTE: If adding preservation to the container, **verify with the PM first.** Clients may require adding preservative to the field and equipment blanks when this occurs.				**pH Paper Lot #**
				Residual Chlorine / 0-6 Roll / 0-6 Strip / 0-14 Strip
				☐ See Exceptions form ENV-FRM-MIN4-0142
Headspace in Methyl Mercury Container?	☐	☐	☑	13.
Extra labels present on soil VOA or WIDRO containers?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☑	15.
Trip Blank Custody Seals Present?	☐	☐	☑	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION / RESOLUTION **FIELD DATA REQUIRED:** ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Isaac Johnson **Date:** 7/18/24

NOTE: *When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*

Labeled By: SMC **Line:** 2

ENV-FRM-MIN4-0154 v03_USDA Regulated Soil Checklist

SECTION TO BE COMPLETED BY SAMPLE RECEIVING:

WO #: 10700449 (8/6/24 JMG) Date: 7/16/24 Initials: SMC

Sample Origin (check one): ☑ DOMESTIC ☐ DOMESTIC REGULATED ☐ QUARANTINED ☐ FOREIGN

NOTE: *Soil samples from Guam, Hawaii, Puerto Rico, and the US Virgin Islands are Foreign originated.*

If **DOMESTIC**, circle state of origin: AL AR AZ CA FL GA LA MS NC NM NY OK (OR) SC TN TX VA List County: Lane

NOTE: *USDA Permit/Compliance Agreement authorizes movement of samples from these domestic regulated zones. Includes IFA, SOD, Golden Nematode, Karnal Bunt, and Witchweed.*

If **QUARANTINED**, circle state of origin: CA ID NY TX List County: _____

NOTE: *Movement is not authorized for Pale Cyst Nematode (ID)—remaining quarantines require additional paperwork.*

If **FOREIGN**, list country of origin: _____

NOTE: *Movement from some Canadian Provinces is not allowed. Refer to ENV-GUI-MIN4-0086 Regulated Soil Guide.*

REQUIREMENT	ACTION	COMPLETED YES	COMPLETED NO	COMPLETED N/A
PPQ-530 Paperwork must be included for any samples from counties with a Fruit Fly Quarantine in CA, NY, and TX. *Reference ENV-SOP-MIN4-0095.*	Scan PPQ-530 to the corresponding project folder on the X:drive. If PPQ-530 is not present, contact the laboratory's designated USDA permit holder. **DO NOT continue processing samples.**	☐	☐	☑
Samples from ID may not be moved from the quarantined region. *Reference ENV-SOP-MIN4-0095.*	If samples originated in a quarantined zone, contact the laboratory's designated USDA permit holder. **DO NOT continue processing samples.**	☐	☐	☑
"Special Handling" stickers are to be placed on all samples.	Did "special handling" stickers get placed on all sample containers?	☐	☐	☑
Samples must be segregated and stored in designated bins, shelves, and coolers.	Were samples placed in a designated cooler, containers, and shelves?	☐	☐	☑
Samples must be double contained to prevent accidental release.	Were there any signs of breakage or leakage (check for broken glass and/or loose soil in the cooler)? **NOTE:** If **NO**, ice and melt water can be disposed of by normal process (ex: down the drain).	☐	☐	☑
	If **YES**, were ice and melt water separated from the cooler and disposed of properly?	☐	☐	☑
	Any broken glass and/or loose soil are to be bagged and placed in a USDA Regulated satellite container or active drum (see Waste Coordinator). **Ice and melt water should be baked at a temperature range of 121-154°F for 2 hours and then cooled before going down the drain.**			
Equipment and supplies that have come into contact samples must be decontaminated.	Was the cooler(s) and/or countertop(s) decontaminated using either a fresh 10% bleach solution or 70% ethanol? **NOTE:** Gloves and other lab supplies will be bagged and placed in the USDA Regulated satellite container or active drum.	☐	☑	

COMMENT(S):

SECTION TO BE COMPLETED BY PROJECT MANAGEMENT (PM and/or PC):

Sample analysis will be completed by (check all that apply): ☒ MN ☐ SUBCONTRACT LAB

If **SUBCONTRACT**, list lab(s): _____

REQUIREMENT	ACTION	COMPLETED YES	COMPLETED NO	COMPLETED N/A
Permission to ship untreated soil must be on file prior to shipping to any subcontract lab, including IR Pace Labs.	Go to: *S:\CLIENTSVR\10_Client Services Department Documents\Regulated Soils Permits\Permission to Ship.* If permission to ship letter is not there, contact the laboratory's designated USDA permit holder.	☐	☐	☒
Shipment must include a valid copy of the receiving lab's permit as well as permission to ship letter.	Is a copy of all needed paperwork included with the COC? **DO NOT ship samples until all necessary paperwork is compiled.**	☐	☐	☒

COMMENT(S):

PM Signature: Jenni Gross **Date:** 8/6/24

ATTACHMENT C

Analytical Data Summary Tables

Tab

Summary of Soil A

Sample Location	Sample ID	Date Sampled	Depth (feet)	DEQ Method NWTPH-Dx (mg/kg)		DEQ Method NWTPH-Gx (mg/kg)	Metals USEPA Method 6010 D (mg/kg)			USEPA 1311 (µg/L)
				Diesel	Motor Oil	Gasoline	Cadmium	Chromium	Lead	Chromium (leachable)
SB-1	SB-1-8	11/9/2023	9	<19.6	<13.1	<10.3	--	--	4.2	--
SB-2	SB-2-8	11/9/2023	8	<19.1	<12.7	11.6	--	--	4.3	--
SB-3	SB-3-9	11/9/2023	8	<19.0	<12.7	390	--	--	5.4	--
SB-4	SB-4-12	11/9/2023	8	<20.1	<13.4	<7.9	--	--	4.3	--
SB-5	SB-5-8	11/9/2023	9	<19.5	<13.0	<8.1	--	--	20.0	--
SB-6	SB-6-9	11/10/2023	9	<19.6	<13.1	<11.2	--	--	4.7	--
SB-7	SB-7-9	11/10/2023	9	<19.5	<13.0	<8.3	--	--	5.4	--
SB-8	SB-8-12	7/24/2024	12	--	--	<14.2	--	--	--	--
SB-9	SB-9-12	7/24/2024	12	--	--	<15.1	--	--	--	--
SB-10	SB-10-12	7/24/2024	12	--	--	<13.4	--	--	--	--
SB-11	SB-11-2.5	7/24/2024	2.5	--	--	<13.8	--	--	--	--
SB-12	SB-12-12	7/24/2024	12	--	--	<13.3	--	--	--	--
SB-13	SB-13-12	7/24/2024	12	--	--	<7.4	--	--	--	--
SB-14	SB-14-3	7/24/2024	3	--	--	16.4	--	--	--	--
	SB-14-9	7/24/2024	9	--	--	<13.4	--	--	--	--
SB-15	SB-15-2.5	7/24/2024	2.5	--	--	<13.2	--	--	--	--
SB-16	SB-16-12	7/24/2024	12	<20.0	<13.3	<14.5	--	--	--	--
SB-17	SB-17-3	7/24/2024	3	<15.8	<10.5	<13.1	--	--	--	--
Used Oil UST	WO-N-7	7/16/2024	7	53.3	364	<2.7	<0.061	26.9	11.1	<6.3
	WO-S-7	7/16/2024	7	19.1 J	138	<2.8	--	--	--	--
Volatilization to Outdoor Air - Occupational[a]				>Max	NE	69,000	NV	NV	NV	NA
Soil Ingestion, Dermal Contact, and Inhalation - Occupational[a]				14,000	NE	20,000	1,100	<Max	800	NA
Soil Ingestion, Dermal Contact, and Inhalation - Construction Worker[a]				4,600	NE	9,700	350	530,000	800	NA
Soil Ingestion, Dermal Contact, and Inhalation - Excavation Worker[a]				>Max	NE	>Max	9,700	<Max	800	NA

Notes:

USEPA - United States Environmental Protection Agency
DEQ - Oregon Department of Environmental Quality
mg/kg - Milligrams per kilogram
< - Not reported at, or above, the indicated laboratory method reporting limit
NE - Not established
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
Shaded value was reported above the laboratory reporting limit.
ND - Not detected
NV - Non-volatile
-- - Not analyzed
NA - Not applicable

[a] Risk-based concentrations are referenced from the September 2003 DEQ *Risk-Based Decision Making For the Remediation of Petroleum-C*
>Max - The constituent RBC for this pathway is greater than 100,000 mg/kg
>Csat - The soil RBC exceeds the limit of 3-phase equilibrium partitioning. Soil concentrations in excess of this value indicate free product m

le 1
Analytical Results

Volatile Organic Compounds USEPA Method 8260B (mg/kg)								Polynuclear Aromatic Hydrocarbons USEPA Method 8270E SIM (mg/kg)				
Isopropylbenzene (Cumene)	Naphthalene	Toluene	n-Butylbenzene	*n*-Propylbenzene	*p*-Isopropyltoluene	*sec*- Butylbenzene	All Other VOCs	Acenaphthylene	Benzo(g,h,i)perylene	Fluoranthene	Pyrene	All Other PAHs
<0.0782	<0.313	<0.313	<0.0782	<0.0782	<0.0782	<0.0782	ND	--	--	--	--	--
<0.0737	<0.295	<0.295	<0.0737	<0.0737	<0.0737	<0.0737	ND	--	--	--	--	--
<0.0905	<0.362	<0.362	0.222	0.163	<0.0905	<0.0905	ND	--	--	--	--	--
1.160	0.953	0.953	7.420	6.720	1.260	2.110	ND	--	--	--	--	--
<0.0844	<0.338	<0.338	<0.0844	<0.0844	<0.0844	<0.0844	ND	--	--	--	--	--
<0.101	<0.405	<0.405	<0.101	<0.101	<0.101	<0.101	ND	--	--	--	--	--
<0.0793	<0.317	<0.317	<0.0793	<0.0793	<0.0793	<0.0793	ND	--	--	--	--	--
<0.129	<0.516	<0.129	--	<0.129	--	--	ND	--	--	--	--	--
<0.154	<0.616	<0.154	--	<0.154	--	--	ND	--	--	--	--	--
<0.125	<0.501	<0.125	--	<0.125	--	--	ND	--	--	--	--	--
<0.137	<0.550	<0.137	--	<0.137	--	--	ND	--	--	--	--	--
<0.132	<0.527	<0.132	--	<0.132	--	--	ND	--	--	--	--	--
<0.0838	<0.335	<0.0838	--	<0.0838	--	--	ND	--	--	--	--	--
<0.120	<0.481	0.357	--	<0.120	--	--	ND	--	--	--	--	--
<0.135	<0.540	<0.135	--	<0.135	--	--	ND	--	--	--	--	--
<0.145	<0.582	<0.145	--	<0.145	--	--	ND	--	--	--	--	--
<.0145	<0.581	<.0145	--	<.0145	--	--	ND	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
<0.0211	<0.0240	<0.0196	<0.0214	<0.0211	<0.0221	<0.0218	ND	0.0050 J	0.0145	0.0034 J	0.0066 J	ND
--	--	--	--	--	--	--	--	--	--	--	--	--
>Csat	83	>Csat	NE	NE	NE	NE	Various	NE	NE	NV	>Max	Various
57,000 (>Csat)	23	88,000 (>Csat)	NE	NE	NE	NE	Various	NE	NE	30,000 (>Csat)	23,000 (>Csat)	Various
27,000 (>Csat)	580	28,000 (>Csat)	NE	NE	NE	NE	Various	NE	NE	10,000 (>Csat)	7,500 (>Csat)	Various
750,000 (>Csat)	16,000 (>Csat)	770,000 (>Csat)	NE	NE	NE	NE	Various	NE	NE	280,000 (>Csat)	210,000 (>Csat)	Various

ug/L - micrograms per liter

ontaminated Sites , June 2023 update

ight be present.

Table 2
Summary of Groundwater Analytical Results

Sample Location	Sample ID	Date Sampled	DEQ Method NWTPH-Dx (µg/L)		DEQ Method NWTPH-Gx (µg/L)	Total Lead USEPA Method 6010 (µg/L)	Volatile Organic Compounds USEPA Method 8260B (µg/L)								
			Diesel	Motor Oil	Gasoline	Total Lead	Chloroform	Isopropylbenzene (Cumene)	Naphthalene	Tetrachloroethene	n-Butylbenzene	*n*-Propylbenzene	*sec*-butylbenzene	*tert*-butylbenzene	All Other VOCs
SB-1	SB-1	11/9/2023	<410	<410	<100	13.1	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	ND
SB-2	SB-2	11/9/2023	<400	<400	<100	<10.0	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND
SB-3	SB-3	11/9/2023	<400	<400	**504**	<10.0	<1.0	2.7	**3.1**	<1.0	3.0	11.9	1.7	<1.0	ND
SB-4	SB-4	11/9/2023	<400	<400	**947**	<10.0	<1.0	1.7	<1.0	<1.0	3.4	2.2	10.2	<1.0	ND
SB-8	SB-8-GW	7/24/2024	--	--	<100	--	--	<1.0	<1.0	--	--	<1.0	--	--	ND
SB-9	SB-9-GW	7/24/2024	--	--	<100	--	--	<1.0	<1.0	--	--	<1.0	--	--	ND
SB-10	SB-10-GW	7/24/2024	--	--	<100	--	--	<1.0	<1.0	--	--	<1.0	--	--	ND
SB-11	SB-11-GW	7/24/2024	--	--	<100	--	--	<1.0	<1.0	--	--	<1.0	--	--	ND
Volatilization to Outdoor Air - Occupational[a]			>S	NE	>S	>S	6,300	>S	16,000	>S	NE	NE	NE	NE	Various
Vapor Intrusion into Buildings - Occupational[a]			1,700	NE	520	NV	5.9	9,100	50	130	NITI	22,000	NITI	NITI	Various
Groundwater in Excavation[a]			>S	NE	14,000	>S	720	>S	500	5,600	NE	NE	NE	NE	Various
Ingestion and Inhalation from Tapwater - Occupational[a]			430	NE	450	15	0.98	2,000	0.72	48	NE	NE	NE	NE	Various

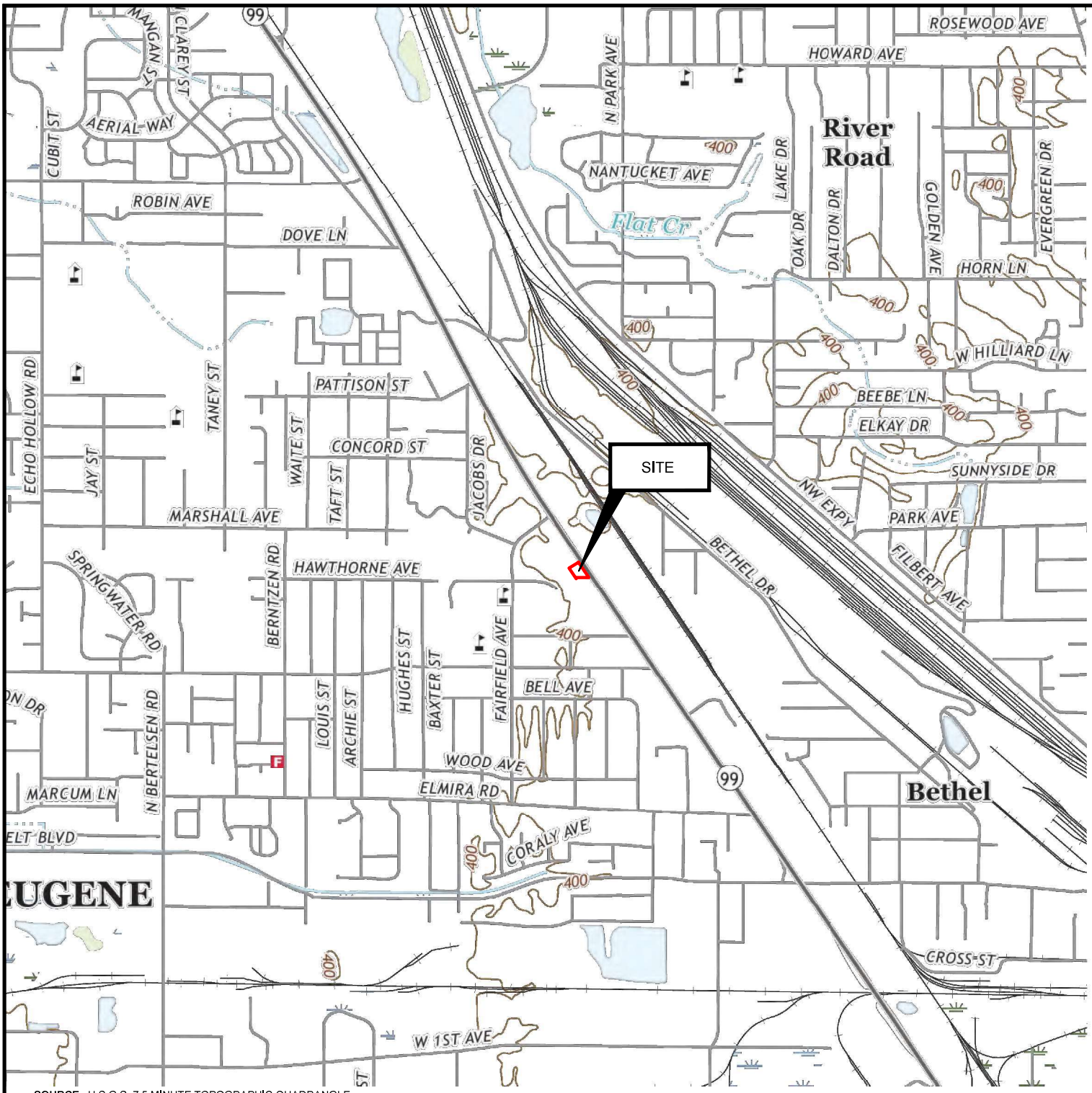
Notes:

USEPA - United States Environmental Protection Agency
DEQ - Oregon Department of Environmental Quality
µg/L- Micrograms per Liter
< - Not reported at, or above, the indicated laboratory method reporting limit.
ND - Not detected at, or above the laboratory method reporting limit
Shaded value was reported above the laboratory reporting limit.
Bold value was reported above a Risk-based Concentration (RBC).
NITI - No inhalation toxicity
NE - Not established
-- - Not analyzed

[a] Risk-based concentrations are referenced from the September 2003 DEQ *Risk-Based Decision Making For the Remediation of Petroleum-Contaminated Sites*, June 2023 update
>S - The groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of this value indicate free product might be present.

ATTACHMENT D

Site Figures



SOURCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE EUGENE WEST, OR (2020)

Scale: 1"=1,500'

N

0 750 1,500 3,000

Subject Property ★

OREGON

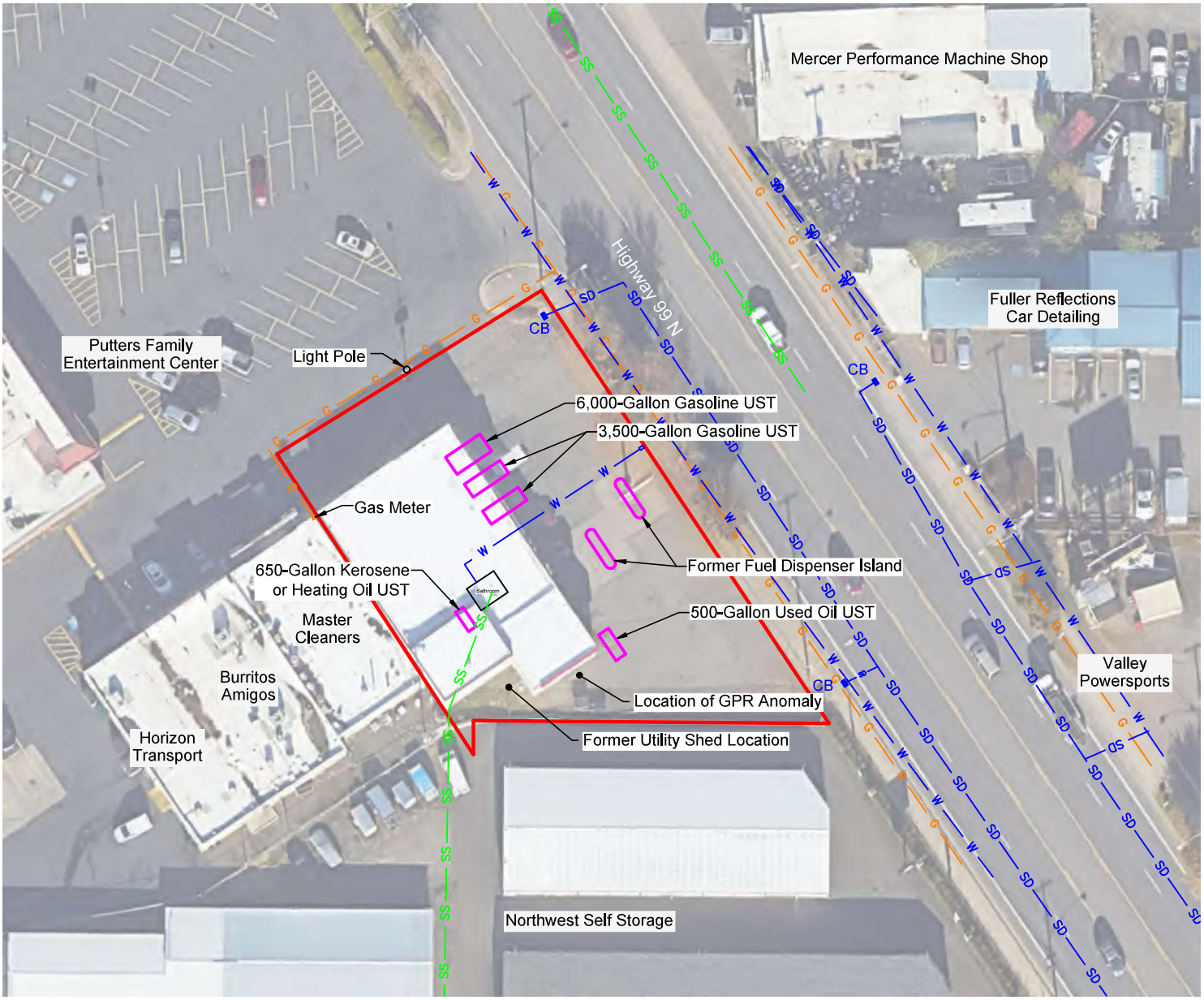
A & M Engineering and Environmental Services, Inc.

Consulting - Design - Construction - Remediation

SITE LOCATION MAP
UST DECOMMISSIONING ASSESSMENT REPORT

1082 HIGHWAY 99 N
EUGENE, OREGON

SCALE:	DATE:	FIGURE NO.
AS SHOWN	7/11/24	1
APPROVED BY:	DRAWN BY:	PROJECT NO.
DJL	SRM	2628-0003



SOURCE: GOOGLE EARTH (2022)

LEGEND

- Approximate Site Boundary
- UST — Underground Storage Tank
- W — Water Line
- SS — Sanitary Sewer Line
- G — Natural Gas Line
- SD — Storm Water Line
- CB — Catch Basin

Utiliy Locations are Approximate

N

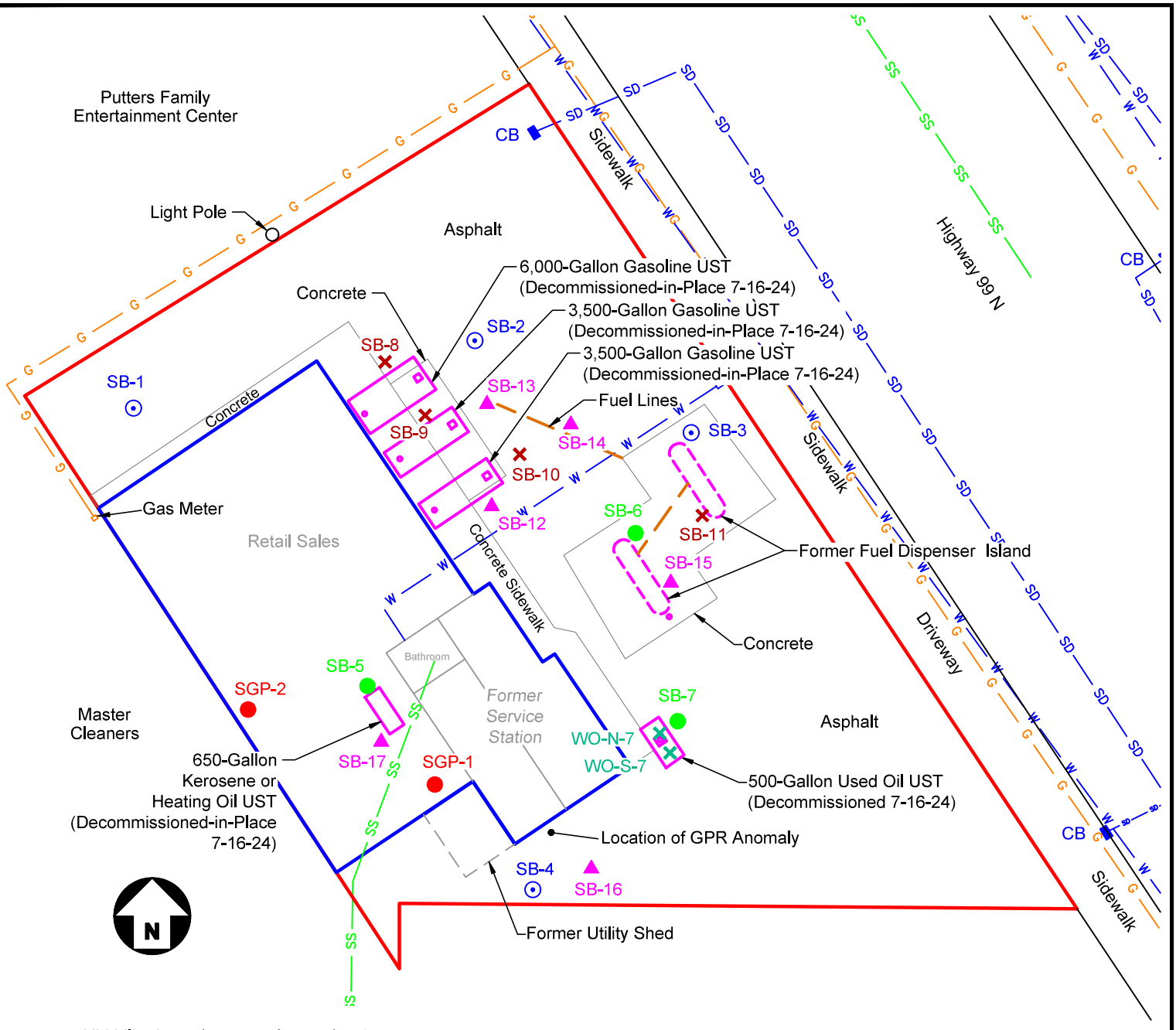
Scale: 1"=60'

0 30 60 120

A & M Engineering and Environmental Services, Inc.
Consulting - Design - Construction - Remediation

SITE MAP
UST DECOMMISSIONING ASSESSMENT REPORT
1082 HIGHWAY 99 N
EUGENE, OREGON

SCALE:	DATE:	FIGURE NO.
AS SHOWN	7/22/24	2
APPROVED BY:	DRAWN BY:	PROJECT NO.
DJL	SRM	2628-0003



LEGEND

Approximate Site Boundary		CB	Catch Basin
UST	Underground Storage Tank	SB-6	Soil Boring (11-2023)
W	Water Line	SB-4	Soil and Groundwater Boring (11-2023)
SS	Sanitary Sewer Line	SGP-1	Soil Gas Sample (2-2024)
G	Natural Gas Line	SB-7	Soil Boring (11-2023 and 7-2024)
SD	Storm Water Line	SB-10	Soil and Groundwater Boring (7-2024)
		WO-N-7	UST Decommissioning Soil Sample (7-2024)

Scale: 1"=30'

0 15 30 60

A & M Engineering and Environmental Services, Inc.
Consulting - Design - Construction - Remediation

BORING/SAMPLING LOCATION MAP
UST DECOMMISSIONING ASSESSMENT - REVISED

1082 HIGHWAY 99 N
EUGENE, OREGON

SCALE:	DATE:	FIGURE NO.
AS SHOWN	8/19/24	3
APPROVED BY:	DRAWN BY:	PROJECT NO.
DJL	SRM	2628-0003

ATTACHMENT E

Push Probe Boring Logs

LOG OF EXPLORATORY BORING

CLIENT/PROJECT NAME: Kdirt, LLC
PROJECT #: 2628-0003
GEOLOGIST/ENGINEER: D. Seaver
DRILLING CONTRACTOR: Steadfast
DRILLING METHOD: Direct-Push
HOLE DIAMETER: 2.5"

BORING ID: SB-8
DATE BEGAN: 7/24/24
DATE COMPLETED: 7/24/24
TOTAL DEPTH: 20
SHEET: 1 OF 1

WATER LEVEL DATA				
DEPTH				
TIME				
DATE				
BORING DEPTH				

FIELD LOCATION OF BORING: North of Northern UST
GROUND ELEVATION:
DATUM:

PID	Sample ID	SAMPLING METHOD		BLOW COUNT	DEPTH SAMPLED	DEPTH IN FEET	SOIL GROUP SYMBOL (USCS)	LITHOLOGIC DESCRIPTION
						0		0 - 1.5 ASPHALT + FILL GRAVEL
						1		
0						2		1.5 - 13.75 - Medium Brown SANDY SILT mod. cohesive, Non-plastic moist from 3' - ~~SATURATED AT~~ wet AT 13.75
						3		
6						4		
						5		
						6		
0						7		
						8		
						9		
0						10		
						11		
0	SB-8-12 0820				X	12		
						13		13.75 - ~~20~~ 19 - Medium Brown Silty SAND wet TO SATURATED AT 14
0						14		
						15		
						16		
						17		
0						18		
						19		19-20 Medium Brown SANDY GRAVEL - SATURATED

NOTES:
Set temp well - screened ~~14-20~~ 14-19'

LOG OF EXPLORATORY BORING

CLIENT/PROJECT NAME: Kdirt, LLC
PROJECT #: 2628-0003
GEOLOGIST/ENGINEER: D. Seaver
DRILLING CONTRACTOR: Steadfast
DRILLING METHOD: Direct-Push
HOLE DIAMETER: 2.5"

BORING ID: SB-9
DATE BEGAN: 7/24/24
DATE COMPLETED: 7/24/24
TOTAL DEPTH:
SHEET: OF:

FIELD LOCATION OF BORING: Between The N + Central Tanks
GROUND ELEVATION:
DATUM:

PID	Sample ID	SAMPLING DATA: SAMPLING METHOD		BLOW COUNT	DEPTH SAMPLED	DEPTH IN FEET	SOIL GROUP SYMBOL (USCS)	WATER LEVEL DATA				
								DEPTH				
								TIME				
								DATE				
								BORING DEPTH				

LITHOLOGIC DESCRIPTION

0 - 0.5 BACKFILL
0.5 - 20 medium SAND fill - moist

SB-9-12
0945

SATURATED AT 17'

NOTES: Set temp well - Screened 10-20' bgs

LOG OF EXPLORATORY BORING

CLIENT/PROJECT NAME: Kdirt, LLC
PROJECT #: 2628-0003
GEOLOGIST/ENGINEER: D. Seaver
DRILLING CONTRACTOR: Steadfast
DRILLING METHOD: Direct-Push
HOLE DIAMETER: 2.5"

BORING ID: SB-10
DATE BEGAN: 7/24/24
DATE COMPLETED: 7/24/24
TOTAL DEPTH: 17.5'
SHEET: 1 OF 1

WATER LEVEL DATA				
DEPTH				
TIME				
DATE				
BORING DEPTH				

FIELD LOCATION OF BORING: EAST END OF SOUTHERN UST
GROUND ELEVATION:
DATUM:

PID	Sample ID	SAMPLING METHOD		BLOW COUNT	DEPTH SAMPLED	DEPTH IN FEET	SOIL GROUP SYMBOL (USCS)	LITHOLOGIC DESCRIPTION
	SB-10-12 1015				X	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		0-0.5 Asphalt 0.5-1.0 Fill (Gravel) 1.0-14 medium Brown Fine Sandy Silt moist. SATURATED @ ~13' bgs. 14-17.5 Medium Brown Silty Medium Sand Saturated Refusal at 17.5'

NOTES: Set temp well screened - 7-17'

LOG OF EXPLORATORY BORING

CLIENT/PROJECT NAME: Kdirt, LLC
PROJECT #: 2628-0003
GEOLOGIST/ENGINEER: D. Seaver
DRILLING CONTRACTOR: Steadfast
DRILLING METHOD: Direct-Push
HOLE DIAMETER: 2.5"

BORING ID: SB-11
DATE BEGAN: 7/24/24
DATE COMPLETED: 7/24/24
TOTAL DEPTH: 17
SHEET: 1 OF 1

FIELD LOCATION OF BORING: West of the Eastern Pump Island
GROUND ELEVATION:
DATUM:

PID	Sample ID	SAMPLING METHOD		BLOW COUNT	DEPTH SAMPLED	DEPTH IN FEET	SOIL GROUP SYMBOL (USCS)
	SB-11-2.5 1045				X	0–19	

WATER LEVEL DATA				
DEPTH				
TIME				
DATE				
BORING DEPTH				

LITHOLOGIC DESCRIPTION

0–0.25 – Asphalt
0.25–0.75 Gravel Fill
0.75–12.5' Medium Brown ~~Silty~~ Sandy Silt
12.5–15 Light Brown Silty Sand Saturated At ~ 13 feet
15–17 – Light Brown / Grey Sandy Gravel – Saturated
Refusal At 17'

NOTES:
Set temp well 6.5–16.5

LOG OF EXPLORATORY BORING

CLIENT/PROJECT NAME: Kdirt, LLC
PROJECT #: 2628-0003
GEOLOGIST/ENGINEER: D. Seaver
DRILLING CONTRACTOR: Steadfast
DRILLING METHOD: Direct-Push
HOLE DIAMETER: 2.5"

BORING ID: SB-12
DATE BEGAN: 7/24/24
DATE COMPLETED: 7/24/24
TOTAL DEPTH: 15'
SHEET: 1 OF 1

WATER LEVEL DATA				
DEPTH				
TIME				
DATE				
BORING DEPTH				

FIELD LOCATION OF BORING: South of Southern UST

GROUND ELEVATION:
DATUM:

PID	Sample ID	SAMPLING METHOD		BLOW COUNT	DEPTH SAMPLED	DEPTH IN FEET	SOIL GROUP SYMBOL (USCS)	LITHOLOGIC DESCRIPTION
						0		0-0.5 - Asphalt
						1		0.5-2 Gravel fill
						2		2-11 - Medium Brown sandy silt - moist
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		11-15 - medium Brown silty Fine SAND wet at 11 - SATURATED AT 13
	SB-12-12 1200				X	12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		

NOTES:

LOG OF EXPLORATORY BORING

CLIENT/PROJECT NAME: Kdirt, LLC
PROJECT #: 2628-0003
GEOLOGIST/ENGINEER: D. Seaver
DRILLING CONTRACTOR: Steadfast
DRILLING METHOD: Direct-Push
HOLE DIAMETER: 2.5"

BORING ID: SB-13
DATE BEGAN: 7/24/24
DATE COMPLETED: 7/24/24
TOTAL DEPTH: 15
SHEET: 1 OF 1

WATER LEVEL DATA				
DEPTH				
TIME				
DATE				
BORING DEPTH				

FIELD LOCATION OF BORING: East of Central UST
GROUND ELEVATION:
DATUM:

PID	Sample ID	SAMPLING DATA: SAMPLING METHOD		BLOW COUNT	DEPTH SAMPLED	DEPTH IN FEET	SOIL GROUP SYMBOL (USCS)	LITHOLOGIC DESCRIPTION
						0		0-0.5 Asphalt
						1		0.5-4.5 Sandy Gravel Fill
0						2		
						3		
0.2						4		
						5		4.5-13 - Grey Black Sandy Silt Moist to wet Saturated at B
						6		
						7		
						8		
						9		
						10		
						11		
	SB-13-12 1230				X	12		
						13		13-15 - Medium Brown Silty Sand - Saturated
						14		
						15		
						16		
						17		
						18		
						19		

NOTES:

LOG OF EXPLORATORY BORING

CLIENT/PROJECT NAME: Kdirt, LLC
PROJECT #: 2628-0003
GEOLOGIST/ENGINEER: D. Seaver
DRILLING CONTRACTOR: Steadfast
DRILLING METHOD: Direct-Push
HOLE DIAMETER: 2.5"

BORING ID: SB-14
DATE BEGAN: 7/24/24
DATE COMPLETED: 7/24/24
TOTAL DEPTH: 10
SHEET: 1 OF 1

WATER LEVEL DATA				
DEPTH				
TIME				
DATE				
BORING DEPTH				

FIELD LOCATION OF BORING: Adjacent to the fuel lines
GROUND ELEVATION:
DATUM:

PID	Sample ID	SAMPLING METHOD		BLOW COUNT	DEPTH SAMPLED	DEPTH IN FEET	SOIL GROUP SYMBOL (USCS)	LITHOLOGIC DESCRIPTION
						0		0-0.5 Asphalt
						1		0.5-3 Gravel Fill
0						2		
	SB-14-3							
46	1330				X	3		3-10 - Dark Brown Sandy Silt Non-Cohesive, moist Slight Hydrocarbon odor at 3' bgs
						4		
2						5		
0						6		
						7		
						8		
0								
	SB-14-9					9		
0	1350				X	10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		

NOTES:

LOG OF EXPLORATORY BORING

CLIENT/PROJECT NAME: Kdirt, LLC
PROJECT #: 2628-0003
GEOLOGIST/ENGINEER: D. Seaver
DRILLING CONTRACTOR: Steadfast
DRILLING METHOD: Direct-Push
HOLE DIAMETER: 2.5"

BORING ID: SB-15
DATE BEGAN: 7/24/24
DATE COMPLETED: 7/24/24
TOTAL DEPTH: 5'
SHEET: 1 OF 1

WATER LEVEL DATA				
DEPTH				
TIME				
DATE				
BORING DEPTH				

FIELD LOCATION OF BORING: Adjacent to the western Pump Island
GROUND ELEVATION:
DATUM:

PID	Sample ID	SAMPLING DATA: SAMPLING METHOD		BLOW COUNT	DEPTH SAMPLED	DEPTH IN FEET	SOIL GROUP SYMBOL (USCS)	LITHOLOGIC DESCRIPTION
	SB15-2.5 1410				X	0		0-0.5 Concrete 0.5-1 Gravel Fill 1-5 Medium Brown Silty SAND moist
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		

NOTES:

LOG OF EXPLORATORY BORING

CLIENT/PROJECT NAME: Kdirt, LLC
PROJECT #: 2628-0003
GEOLOGIST/ENGINEER: D. Seaver
DRILLING CONTRACTOR: Steadfast
DRILLING METHOD: Direct-Push
HOLE DIAMETER: 2.5"

BORING ID: SB-16
DATE BEGAN: 7/24/24
DATE COMPLETED: 7/24/24
TOTAL DEPTH: 15'
SHEET: 1 OF 1

WATER LEVEL DATA				
DEPTH				
TIME				
DATE				
BORING DEPTH				

FIELD LOCATION OF BORING: South of Anomaly near fence line on S. property BDY
GROUND ELEVATION:
DATUM:

PID	Sample ID	SAMPLING DATA: SAMPLING METHOD		BLOW COUNT	DEPTH SAMPLED	DEPTH IN FEET	SOIL GROUP SYMBOL (USCS)	LITHOLOGIC DESCRIPTION
	SB-16-12 1450					0		0-0.3 – Asphalt 0.3-0.5 Fill 0.5 – 10 – Medium Brown sandy silt moist
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		10 – 15 – Dark Brown silty sand. Saturated at 13'
						11		
						12		
						13	▽	
						14		
						15		
						16		
						17		
						18		
						19		

NOTES:

LOG OF EXPLORATORY BORING

CLIENT/PROJECT NAME: Kdirt, I.I.C
PROJECT #: 2628-0003
GEOLOGIST/ENGINEER: D. Seaver
DRILLING CONTRACTOR: Steadfast
DRILLING METHOD: Direct-Push
HOLE DIAMETER: 2.5"

BORING ID: SB-17
DATE BEGAN: 7/25/24
DATE COMPLETED: 7/25/24
TOTAL DEPTH:
SHEET: OF:

FIELD LOCATION OF BORING: SE CORNER OF KEROSENE TANK
GROUND ELEVATION:
DATUM:

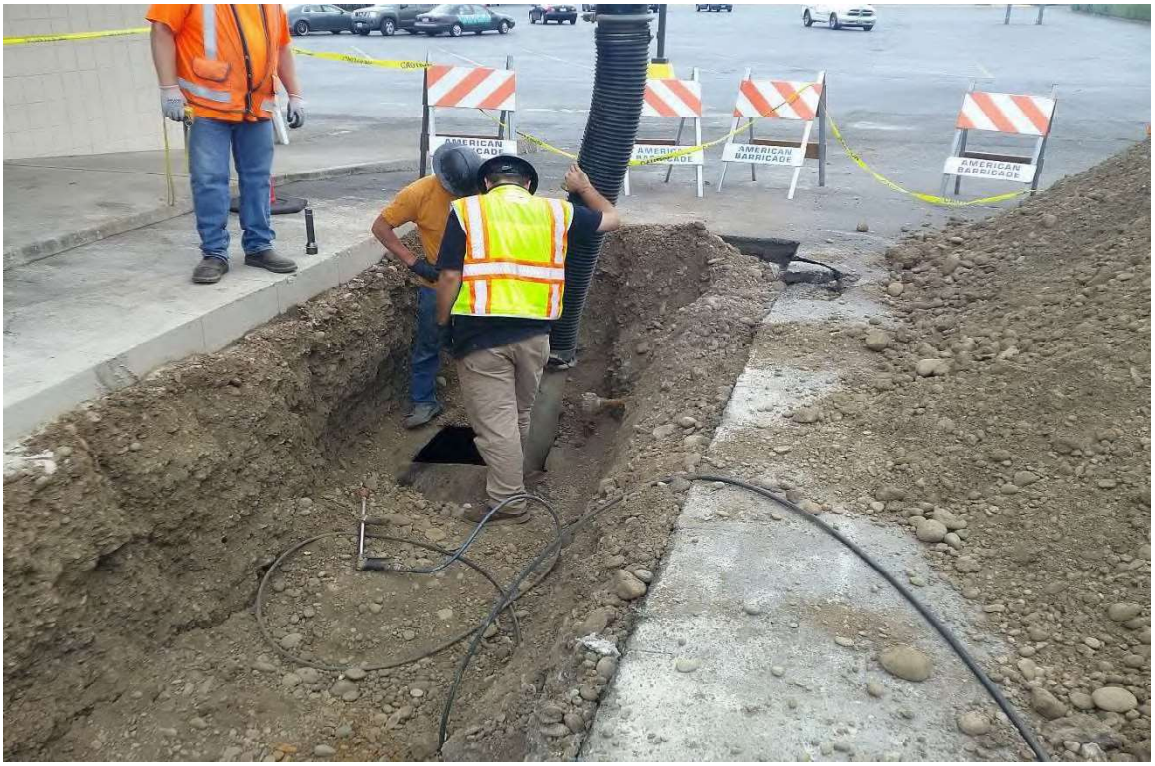
PID	Sample ID	SAMPLING DATA: SAMPLING METHOD		BLOW COUNT	DEPTH SAMPLED	DEPTH IN FEET	SOIL GROUP SYMBOL (USCS)	WATER LEVEL DATA				LITHOLOGIC DESCRIPTION
								DEPTH				
								TIME				
								DATE				
								BORING DEPTH				
	SB-17-3 0930				X	0						0-0.3 - Concrete
						1						0.3-3.5 Gravel fill with sand + silt
						2						
						3						Refusal at 3.5
						4						
						5						
						6						
						7						
						8						
						9						
						10						
						11						
						12						
						13						
						14						
						15						
						16						
						17						
						18						
						19						

NOTES:

ATTACHMENT F

Photo Log

Gas USTs – looking south.



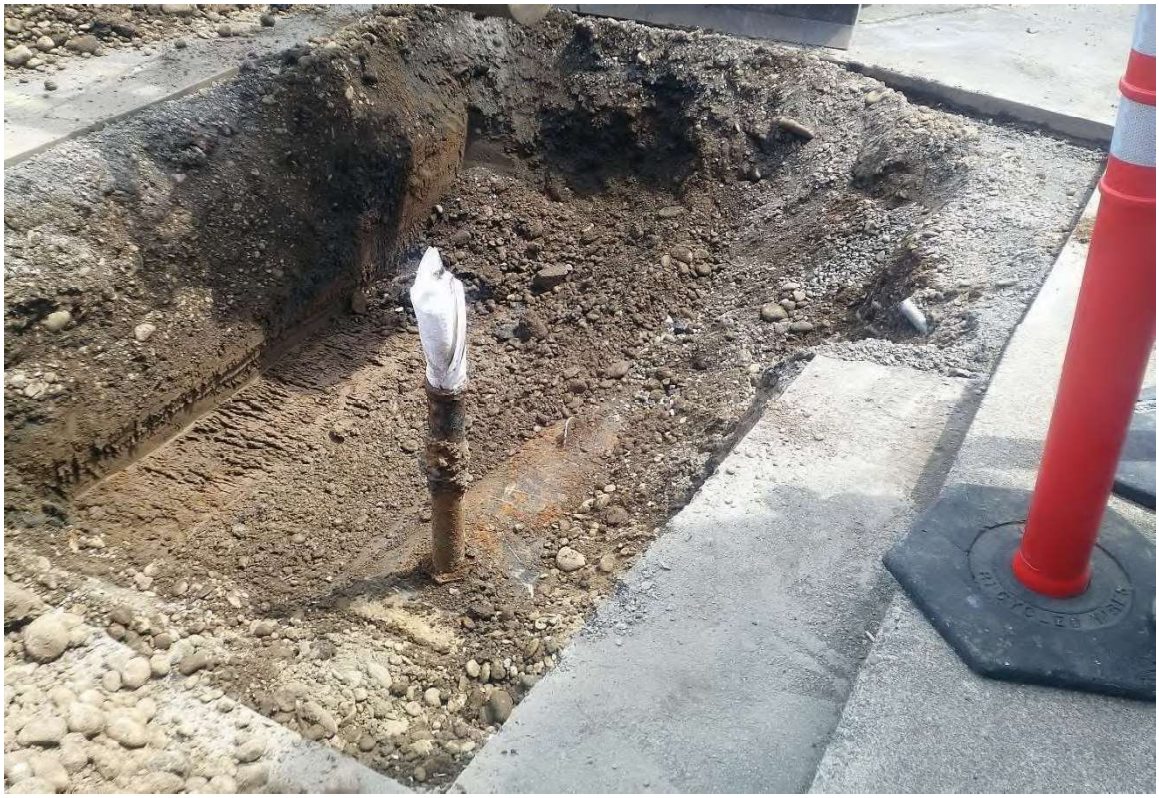
Gas UST cleaning – typical.

Gas UST post-cleaning – typical.

Filling of gas USTs with inert materiall – typical.

Gas USTs following filling with inert material.

Gas UST area following excavation backfilling.



Used oil UST.

Cleaning of the used oil UST.

Used oil UST.

Used oil UST excavation prior to sample collection.

Used oil UST excavation following backfilling.

Used oil suspected contaminated soil stockpile.

Cleaning kerosene or heating oil UST.

Kerosene or heating oil UST after cleaning.

Filling kerosene or heating oil UST with inert material.

Kerosene or heating oil UST following backfilling.

Concrete surface over former Kerosene or heating oil UST.

Gas UST area following asphalt placement.

Used Oil UST area following asphalt placement.

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

September 5, 2024

Karrie Knecht
Kdirt LLC
3400 Main St
Springfield, OR 97487

RE: UST Decommissioning Status
1082 Hwy 99 N, Eugene
DEQ UST Facility ID No. 12751

Dear Karrie Knecht:

The Department of Environmental Quality (DEQ) has received and reviewed underground storage tank (UST) documents for closure of five decommissioned USTs at facility #12751, located at 1082 Hwy 99 N, 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 tanks from active to closed, with a decommissioning date of July 17, 2024. DEQ file and database records show tank permits BJBKE, BJBKF, BJBKG, BJBKH, AND BJBBF as inactive and decommissioned. The documents received are on file at the DEQ Headquarters Office in Portland.

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

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

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

Sincerely,

Dave Pardue

Dave Pardue
UST Program Coordinator