



CAMERON Kenneth A

From: DANA Kevin
Sent: Monday, July 24, 2017 9:24 AM
To: GAMOLO Gerald
Cc: CAMERON Kenneth A; DANA Kevin; ISMERIO Dawn
Subject: Q-Time Number Needed for LUST 26-17-0573

Gerald,

We need to have a Q-Time number assigned to LUST project #26-17-0573 (Portland Public Schools). Ken Cameron will be the Project Manager.

We haven't received a signed Cost Recovery Agreement for this project, but we usually don't require local governments to sign a CRA.

Let me know if you have any questions. Thanks!

Kevin Dana

Oregon Department of Environmental Quality
Northwest Region Office
700 NE Multnomah St., Suite 600
Portland, OR 97232-4100
Phone: (503) 229-5369



TRANSMITTAL

DATE: June 21, 2017

TO: Eric Kelley
Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, Oregon 97232

FROM: Scott Braunsten, RG, CES

PROJECT NO: 22589.000

RE: Underground Storage Tank Decommissioning Report
Portland Public Schools
501 N Dixon Street
Portland, Oregon 97227
DEQ Facility Number 7666
LUST File Number 26-17-0573

26-17-0573

Attached is one hard copy of the Underground Storage Tank Decommissioning Report for Facility 7666 located at 501 N Dixon Street in Portland, Oregon. I have sent you an electronic version of the report via email.

If you have any questions regarding this report, please contact me at 503.417.7737.

Thank you.

cc: Mr. Jeff Brandt, Portland Public Schools

GAMOLO Gerald

From: Dana Domenighini [Dana.Domenighini@pbsusa.com]
Sent: Monday, June 05, 2017 11:22 AM
To: gerald.gamolo@state.or.us
Cc: Scott Braunsten; jbrandt1@pps.net
Subject: UST Initial 20 Day Report
Attachments: USTInitial20DayReport_Completed.pdf

#26-17-0573

Mr. Gamolo,

Please find attached to this email a completed 20 day report for the Portland Public School facility located at 501 N Dixon Street in Portland, Oregon.

If you have any questions, feel free to contact me.

Thank you,

Dana Domenighini
Staff Scientist

PBS

4412 SW Corbett Ave., Portland, OR 97239
office: 503.248.1939 | direct: 503.417.7681 | cell: 503.407.1166
dana.domenighini@pbsusa.com
pbsusa.com

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OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK PROGRAM

Initial (Twenty Day) Report Form for UST Cleanup Projects

This report is due twenty (20) days from the date of the release.

DEQ USTC File No. 26-17-0573
DEQ Facility ID No. 7666
Site Name: Portland Public Schools
Site Address: 501 N Dixon Street, Portland, OR 97227

INITIAL CLEANUP INFORMATION

(1) Type of contamination (check ☒ all that apply):

☐ Gasoline ☒ Diesel ☐ Waste Oil ☐ Heating Oil

☐ Other (specify) _____

(2) Estimate quantity of release (based on information known to date – • select only one):

☒ <100 gal. ☐ 100-499 gal. ☐ 500-999 gal. ☐ 1,000-5,000 gal. ☐ >5,000 gal.

SITE INFORMATION (check ☒ yes or ☒ no)

(3) ☐ Y ☒ N Did any water enter the excavation? If yes, please describe and identify the depth to groundwater in feet below ground surface: _____

(4) ☐ Y ☒ N Was a sheen or odor observed on any water in the excavation?

Note: If groundwater is encountered, soil samples from the soil/water interface must be collected and analyzed for BTEX and by the appropriate TPH method.

At sites where diesel or other non-gasoline products have been released, the water may also have to be screened or tested for polynuclear aromatic hydrocarbons (PAHs). Please refer to OAR 340-122-0218.

(5) ☐ Y ☒ N Was water pumped from the excavation?

☐ Y ☐ N If yes, did groundwater recharge within 24 hours after pumping?

Please describe the pumping procedure and disposal option selected for the purged excavation water:

(6) ☐ Y ☒ N Were any water samples collected from the excavation? If yes, please describe: _____

(7) ☒ Y ☐ N Have any soil and/or water sample results been received at this time?
If so, please attach any lab reports.

IF GROUNDWATER HAS BEEN ENCOUNTERED, PLEASE ANSWER QUESTIONS #8-13, BELOW.
IF NO WATER HAS BEEN ENCOUNTERED, PLEASE SKIP TO QUESTION #14

(8) What are the known uses of groundwater within a 500-foot radius of the release site (check ☒ all that apply)?

☐ non-use ☐ industrial ☐ agricultural ☐ drinking supply

(9) If groundwater in this area is being used as a drinking water supply, please check ☒ the type and size of population served by the supply:

☐ Community (community well used for drinking water year round – • select only one)

size: ☐ <1,000 people ☐ 1,000 - 5,000 people ☐ >5,000 people

☐ Intermittent use (public water used for drinking water only on a part-time basis – • select only one)

size: ☐ <50 people ☐ 50 - 300 people ☐ > 300 people

☐ Private wells (individual private well or wells used for drinking water – • select only one)

size: ☐ <10 people ☐ 10 - 25 people ☐ >25 people

(10) ☐ Y ☐ N Is there any evidence this water supply has been or is likely to be impacted from the petroleum product release? If yes, estimate how difficult it would be to replace the existing supply:

☐ bottled water is the only alternative

☐ on-site water treatment; bulk water delivery; new wells are available

☐ able to connect to existing water supply

☐ do not know what alternatives would be available

(11) ☐ Y ☐ N Are/were vapors present in on-site or nearby buildings? If yes:

A. Are you monitoring and/or mitigating any potential fire and safety hazards posed by vapors and free product? Explain: _____

B. Estimate the number of people potentially affected by vapors – • select only one:

☐ 1-2 people ☐ 3-10 people ☐ >10 people

(12) ☐ Y ☐ N Are vapors or is petroleum contamination present in the utility corridors?

If yes, please explain: _____

(13) ☐ Y ☐ N Are natural areas located within 1/4 mile of the site? If so, please describe types (parks, rivers, wetlands, sensitive habitats, etc.) and proximity: _____

(14) ☒ Y ☐ N If groundwater was not encountered in the excavation, do you believe that this cleanup project can be conducted under the requirements for an UST Cleanup Matrix site? If yes, then refer to OAR 340-122-0305 through 0360.

AREA/SITE CONDITIONS:

- (15) Mean annual rainfall: ☐ <20 inches ☒ 20-45 inches ☐ >45 inches
- (16) Soil type(s) of the naturally occurring soils, not the backfill around the tank – • select only one:
- ☐ clays, compact tills, shales, and unfractured metamorphic and igneous rocks
- ☐ sandy loams, loamy sands, silty clays, clay loams, moderately permeable limestone, dolomite, sandstones, moderately fractured igneous and metamorphic rock
- ☒ fine and silty sands, sands and gravels, highly fractured igneous and metamorphic rock, permeable basalts and lavas, karst limestones and dolomites

SOIL MANAGEMENT

- (17) If soil sample results have been received:
☐ Y ☒ N Will the level of contamination detected require removal of contaminated soil for treatment or disposal?
- (18) All contaminated soil temporarily stockpiled on-site prior to treatment or disposal must be contained within a bermed area, kept covered, and the entire area secured to prevent unauthorized access by the public. If you haven't done this, please explain why:

Note: It is a violation to stockpile petroleum contaminated soil (PCS) on-site for greater than 30 days without a DEQ Solid Waste Letter Authorization (SWLA) Permit.

- (19) If contaminated soil is currently stockpiled on-site, please indicate when disposal will occur or when treatment will begin: _____
- (20) Estimated volume of contaminated soil (specify tons or cubic yards): _____
- (21) Intended disposition of soils (please • select only one):
- ☐ On-site/off-site treatment, Solid Waste Letter Authorization Permit Application attached.
- ☐ Thermal treatment off-site at an authorized facility.
Facility name: _____
- ☐ Landfill disposal.
Name of Landfill: _____

Note: Please attach additional information as necessary to explain any unusual circumstances associated with this project.

This initial report is intended to provide the Department with the basic initial information about activities associated with the release. Future reports should provide a more detailed and complete picture of the cleanup project.

Please be aware that a DEQ permit/authorization is required for the following activities:

- 1) Soil aeration, bioremediation (on-site or off-site), or on-site thermal treatment.
- 2) Water discharges to a stream/storm drain from the excavation or treatment tank.

If these activities will be included in your cleanup project, contact the regional DEQ office for the appropriate application forms, information on permit fees and guidance documents.

THIS REPORT WAS PREPARED BY:

Individual:	Dana Domenighini	Date:	6/5/17
Company:	PBS Engineering & Environmental	Phone:	503-417-7681
Address:	4412 SW Corbett Avenue		
City:	Portland	State:	OR
		Zip:	97239

1. Please return this form to the regional office in which the site is located.
If you have questions, call the contact person in your regional office.
2. For all tanks, except heating oil tanks, you must submit an *UST Decommissioning Checklist and Site Assessment Report* to the appropriate regional office within 30 days of the UST decommissioning.
Failure to do so can result in delays to your project and may result in continued billing for the annual tank permit fees.
3. Addresses and phone numbers for the regional offices can be found in the *UST Cleanup Manual* or viewed and downloaded from this DEQ Webpage:
<http://www.deq.state.or.us/about/locations.htm>
4. Copies of the *UST Cleanup Manual* and other UST program forms and checklists can be viewed and downloaded from DEQ's Website:
<http://www.deq.state.or.us/lq/tanks/ust/index.htm>
or in the Portland area by calling Steve Paiko at 503-229-6652
or outside the Portland area leaving a message on the UST Help Line (toll-free in Oregon) at 1-800-742-7878

KEEP A COPY OF THIS REPORT FOR YOUR FACILITY RECORDS

May 22, 2017

PBS Engineering & Env.- POR

Sample Delivery Group: L910572
Samples Received: 05/19/2017
Project Number: 22589.000
Description: PPS UST Decommissioning

Report To: Scott Braunsten
4412 SW Corbett Ave
Portland, OR 97239

Entire Report Reviewed By:

Brian Ford

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
PIPE20-3 L910572-01	5	
DISPENSER1-4 L910572-02	6	⁴ Cn
DISPENSER2-4 L910572-03	7	⁵ Sr
DISPENSER3-4 L910572-04	8	
Qc: Quality Control Summary	9	⁶ Qc
Total Solids by Method 2540 G-2011	9	
Volatile Organic Compounds (GC) by Method NWTPHGX	10	⁷ Gl
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	11	⁸ Al
Gl: Glossary of Terms	12	
Al: Accreditations & Locations	13	⁹ Sc
Sc: Chain of Custody	14	

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



PIPE20-3 L910572-01 Solid

Collected by
Dana Domenighini

Collected date/time
05/18/17 11:50

Received date/time
05/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981348	1	05/19/17 14:16	05/19/17 14:24	MLW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG981771	1.07	05/18/17 11:50	05/21/17 22:20	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981488	1	05/19/17 21:33	05/20/17 17:48	ACM

¹ Cp

² Tc

³ Ss

DISPENSER1-4 L910572-02 Solid

Collected by
Dana Domenighini

Collected date/time
05/18/17 12:25

Received date/time
05/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981348	1	05/19/17 14:16	05/19/17 14:24	MLW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG981771	1.04	05/18/17 12:25	05/21/17 22:42	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981488	1	05/19/17 21:33	05/20/17 18:02	ACM

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

DISPENSER2-4 L910572-03 Solid

Collected by
Dana Domenighini

Collected date/time
05/18/17 12:05

Received date/time
05/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981348	1	05/19/17 14:16	05/19/17 14:24	MLW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG981771	1.11	05/18/17 12:05	05/21/17 23:04	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981488	1	05/19/17 21:33	05/20/17 18:15	ACM

⁸ Al

⁹ Sc

DISPENSER3-4 L910572-04 Solid

Collected by
Dana Domenighini

Collected date/time
05/18/17 12:10

Received date/time
05/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981348	1	05/19/17 14:16	05/19/17 14:24	MLW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG981771	1.03	05/18/17 12:10	05/21/17 23:26	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981488	1	05/19/17 21:33	05/20/17 18:29	ACM



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.9		1	05/19/2017 14:24	WG981348

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		4.81	1.07	05/21/2017 22:20	WG981771
(S) o,a,a-Trifluorotoluene(FID)	98.0		77.0-120		05/21/2017 22:20	WG981771

3 Ss

4 Cn

5 Sr

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.50	1	05/20/2017 17:48	WG981488
Residual Range Organics (RRO)	ND		11.2	1	05/20/2017 17:48	WG981488
(S) o-Terphenyl	89.4		18.0-148		05/20/2017 17:48	WG981488

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.0		1	05/19/2017 14:24	WG981348

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		4.67	1.04	05/21/2017 22:42	WG981771
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)	98.0		77.0-120		05/21/2017 22:42	WG981771

3 Ss

4 Cn

5 Sr

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.49	1	05/20/2017 18:02	WG981488
Residual Range Organics (RRO)	ND		11.2	1	05/20/2017 18:02	WG981488
(S) <i>o</i> -Terphenyl	94.3		18.0-148		05/20/2017 18:02	WG981488

6 Qc

7 Gl

3 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.1		1	05/19/2017 14:24	WG981348

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		4.72	1.11	05/21/2017 23:04	WG981771
(S) o,a,a-Trifluorotoluene(FID)	98.3		77.0-120		05/21/2017 23:04	WG981771

3 Ss

4 Cn

5 Sr

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	28.6		4.25	1	05/20/2017 18:15	WG981488
Residual Range Organics (RRO)	ND		10.6	1	05/20/2017 18:15	WG981488
(S) o-Terphenyl	72.3		18.0-148		05/20/2017 18:15	WG981488

6 Qc

7 GI

8 AI

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.5		1	05/19/2017 14:24	WG981348

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		4.66	1.03	05/21/2017 23:26	WG981771
(S) <i>α,α,α</i> -Trifluorotoluene(FID)	97.0		77.0-120		05/21/2017 23:26	WG981771

3 Ss

4 Cn

5 Sr

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.52	1	05/20/2017 18:29	WG981488
Residual Range Organics (RRO)	ND		11.3	1	05/20/2017 18:29	WG981488
(S) <i>o</i> -Terphenyl	76.5		18.0-148		05/20/2017 18:29	WG981488

6 Qc

7 Gl

8 Al

9 Sc

WG981348

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L910572-01,02,03,04](#)

Method Blank (MB)

(MB) R3219571-1 05/19/17 14:24

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L910553-43 Original Sample (OS) • Duplicate (DUP)

(OS) L910553-43 05/19/17 14:24 • (DUP) R3219571-3 05/19/17 14:24

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	95.2	93.5	1	1.79		5

Laboratory Control Sample (LCS)

(LCS) R3219571-2 05/19/17 14:24

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 G

7 GI

8 AI

9 Sc



WG981771

Volatile Organic Compounds (GC) by Method NWTPHGX

QUALITY CONTROL SUMMARY

[L910572-01,02,03,04](#)

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) R3219856-3 05/20/17 18:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.0339	4.00
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3219856-1 05/20/17 17:39 • (LCSD) R3219856-2 05/20/17 18:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.50	5.94	5.51	108	100	70.0-133			7.50	20
(S) a,a,a-Trifluorotoluene(FID)				101	101	77.0-120				

L909393-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L909393-21 05/20/17 22:42 • (MS) R3219856-4 05/20/17 19:46 • (MSD) R3219856-5 05/20/17 20:08

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	6.39	181	261	270	25.4	28.2	49.5	10.0-146			3.35	30
(S) a,a,a-Trifluorotoluene(FID)					100	99.4		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Q

7 GI

8 AI

9 Sc



WG981488

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

QUALITY CONTROL SUMMARY

[L910572-01,02,03,04](#)

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) R3219804-1 05/20/17 16:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	85.5			18.0-148

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3219804-2 05/20/17 16:39 • (LCSD) R3219804-3 05/20/17 16:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	30.0	26.5	25.7	88.3	85.8	50.0-150			2.86	20
Residual Range Organics (RRO)	30.0	20.3	20.0	67.5	66.8	50.0-150			1.14	20
(S) o-Terphenyl				76.0	74.0	18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 G

7 GI

8 AI

9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
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The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl³ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey--NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio--VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{na} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



PBS Engineering & Env.- POR

Sample Delivery Group: L910875
Samples Received: 05/20/2017
Project Number: 22589.000
Description: PPS UST Decommissioning

Report To: Scott Braunsten
4412 SW Corbett Ave
Portland, OR 97239

Entire Report Reviewed By:

Brian Ford

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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TANK1S-15 L910875-02	6
TANK1E-15 L910875-03	7
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¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



TANK1N-16 L910875-01 Solid

 Collected by Dana Domenighini
 Collected date/time 05/19/17 08:30
 Received date/time 05/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG982036	1.23	05/19/17 08:30	05/22/17 17:12	DWR

TANK1S-15 L910875-02 Solid

 Collected by Dana Domenighini
 Collected date/time 05/19/17 09:25
 Received date/time 05/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG982036	1.05	05/19/17 09:25	05/23/17 13:52	JAH

TANK1E-15 L910875-03 Solid

 Collected by Dana Domenighini
 Collected date/time 05/19/17 11:00
 Received date/time 05/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG982036	1	05/19/17 11:00	05/23/17 14:13	JAH

TANK2N-13 L910875-04 Solid

 Collected by Dana Domenighini
 Collected date/time 05/19/17 10:20
 Received date/time 05/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981802	1	05/22/17 07:23	05/23/17 07:05	ACM

TANK2S-13 L910875-05 Solid

 Collected by Dana Domenighini
 Collected date/time 05/19/17 10:00
 Received date/time 05/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981802	1	05/22/17 07:23	05/23/17 07:57	ACM

TANK2W-13 L910875-06 Solid

 Collected by Dana Domenighini
 Collected date/time 05/19/17 09:05
 Received date/time 05/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981802	1	05/22/17 07:23	05/23/17 07:22	ACM

PIPE30-5 L910875-07 Solid

 Collected by Dana Domenighini
 Collected date/time 05/19/17 09:20
 Received date/time 05/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG982036	1.15	05/19/17 09:20	05/23/17 14:34	JAH
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981802	1	05/22/17 07:23	05/23/17 07:40	ACM

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.3		1	05/20/2017 14:11	WG981745

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		5.39	1.23	05/22/2017 17:12	WG982036
(S) o,a,a-Trifluorotoluene(FID)	96.7		77.0-120		05/22/2017 17:12	WG982036

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

TANK1S-15

Collected date/time: 05/19/17 09:25

SAMPLE RESULTS - 02

L910875

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	05/20/2017 14:11	WG981745

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	mg/kg		mg/kg			
	ND		4.70	1.05	05/23/2017 13:52	WG982036
(S) o,a,a-Trifluorotoluene(FID)	103		77.0-120		05/23/2017 13:52	WG982036

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

TANK1E-15

Collected date/time: 05/19/17 11:00

SAMPLE RESULTS - 03

L910875

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.5		1	05/20/2017 14:11	WG981745

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		4.63	1	05/23/2017 14:13	WG982036
(S) <i>o,o</i> -Trifluorotoluene(FID)	102		77.0-120		05/23/2017 14:13	WG982036

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

TANK2N-13

Collected date/time: 05/19/17 10:20

SAMPLE RESULTS - 04

L910875

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.5		1	05/20/2017 14:11	WG981745

1 Cp

2 Tc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.42	1	05/23/2017 07:05	WG981802
Residual Range Organics (RRO)	ND		11.0	1	05/23/2017 07:05	WG981802
(S) o-Terphenyl	108		18.0-148		05/23/2017 07:05	WG981802

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

3 AI

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.2		1	05/20/2017 14:11	WG981745

1 Cp

2 Tc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Diesel Range Organics (DRO)	ND		4.38	1	05/23/2017 07:57	WG981802
Residual Range Organics (RRO)	ND		11.0	1	05/23/2017 07:57	WG981802
(S) o-Terphenyl	93.5		18.0-148		05/23/2017 07:57	WG981802

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

3 Al

9 Sc

TANK2W-13

Collected date/time: 05/19/17 09:05

SAMPLE RESULTS - 06

L910875

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.0		1	05/20/2017 14:11	WG981745

1 Cp

2 Tc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	8.47		4.65	1	05/23/2017 07:22	WG981802
Residual Range Organics (RRO)	ND		11.6	1	05/23/2017 07:22	WG981802
(S) o-Terphenyl	93.7		18.0-148		05/23/2017 07:22	WG981802

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.3		1	05/20/2017 14:11	WG981745

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		5.88	1.15	05/23/2017 14:34	WG982036
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	103		77.0-120		05/23/2017 14:34	WG982036

3 Ss

4 Cn

5 Sr

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		5.11	1	05/23/2017 07:40	WG981802
Residual Range Organics (RRO)	ND		12.8	1	05/23/2017 07:40	WG981802
(S) <i>o</i> -Terphenyl	101		18.0-148		05/23/2017 07:40	WG981802

6 Qc

7 Gl

8 Al

9 Sc

WG981745

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L910875-01,02,03,04,05,06,07](#)

Method Blank (MB)

(MB) R3219734-1 05/20/17 14:11

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Total Solids	0.000300			

L910875-02 Original Sample (OS) • Duplicate (DUP)

(OS) L910875-02 05/20/17 14:11 • (DUP) R3219734-3 05/20/17 14:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Total Solids	89.4	89.2	1	0.255		5

Laboratory Control Sample (LCS)

(LCS) R3219734-2 05/20/17 14:11

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Cu

7 Gl

8 Al

9 Sc

WG982036

Volatile Organic Compounds (GC) by Method NWTPHGX

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L910875-01,02,03,07](#)

Method Blank (MB)

(MB) R3220132-5 05/22/17 13:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	0.0508	J	0.0339	4.00
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3220132-1 05/22/17 11:16 • (LCSD) R3220132-2 05/22/17 11:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.50	5.83	5.76	106	105	70.0-133			1.16	20
(S) a,a,a-Trifluorotoluene(FID)				105	105	77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

WG981802

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L910875-04,05,06,07](#)

Method Blank (MB)

(MB) R3220129-1 05/22/17 19:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	102			18.0-148

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Q⁷ Gl⁸ Al⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3220129-2 05/22/17 19:26 • (LCSD) R3220129-3 05/22/17 19:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	30.0	24.0	21.5	80.0	71.7	50.0-150			10.8	20
Residual Range Organics (RRO)	30.0	19.1	16.9	63.8	56.3	50.0-150			12.5	20
(S) o-Terphenyl				80.6	69.6	18.0-148				



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
-----------	-------------

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl³ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

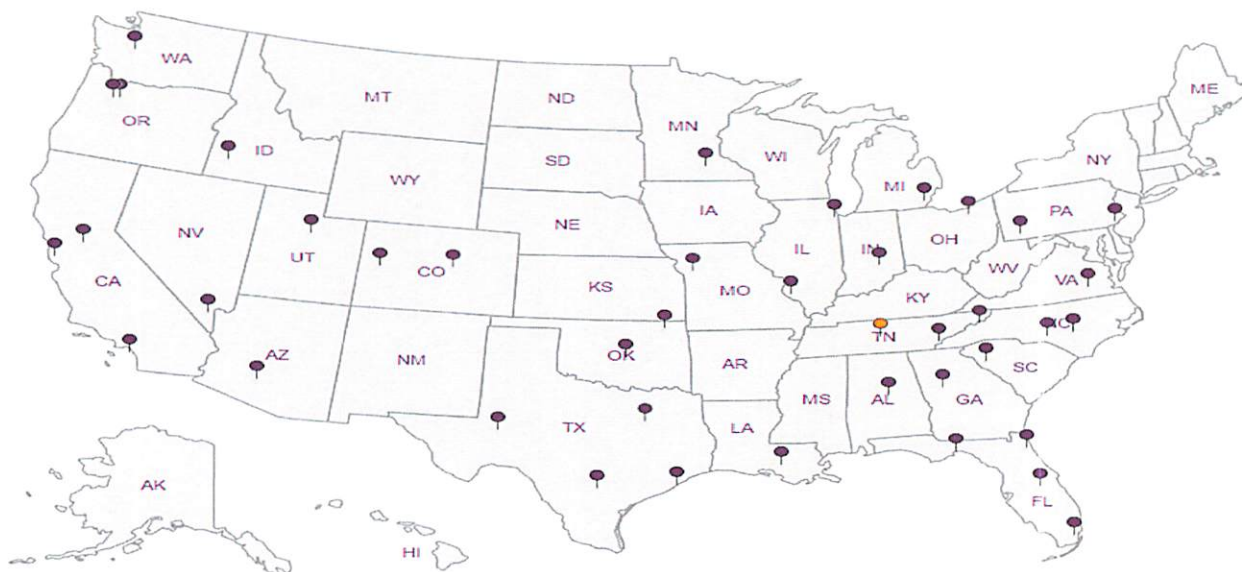
Third Party & Federal Accreditations

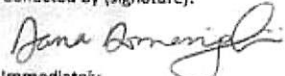
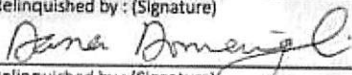
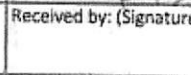
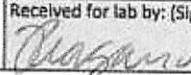
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ¹⁴ Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



PBS Engineering & Environmental 4412 SW Corbett Avenue Portland, Oregon 97239				Billing Information: PBS Engineering & Environmental 4412 SW Corbett Avenue Portland, Oregon 97239				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 1 of 2					
				Report to: Scott Braunsten				Email To: scott.braunsten@pbsusa.com				 ESC L.A.B. S.C.I.E.N.C.E.S. YOUR LAB OF CHOICE 12055 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 													
Project Description: PPS UST Decommissioning				City/State Collected: Portland, OR				L# 91275 F040 Acctnum: Template: Prelogin: TSR: PB: Shipped Via:																	
Phone: 503-417-7737 Fax: 866-727-0140		Client Project # 22589.000		Lab Project #		Collected by (print): Dana Domenighini		Site/Facility ID #		P.O. #		Rush? (Lab MUST Be Notified) ☒ Same Day ☐ Five Day ☒ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day Quote # Date Results Needed No. of Cntrs													
Collected by (signature): 		Immediately Packed on Ice N ☐ Y ☒		Sample ID		Comp/Grab		Matrix *		Depth		Date		Time		NWTPH-QX NWTPA-DX HOLD 5/19/17 830 5 X									
Tank 1N-16		Grab		SS		16		5/19/17		830		5		X		01									
Tank 1N-18						18				840						02									
Tank 1S-15						15				925				X		03									
Tank 1S-17						17				930				X		04									
Tank 1E-15						15				1100				X		05									
Tank 1E-17						17				1605				X		06									
Tank 2N-13						13				1020				X		07									
Tank 2N-15						15				1025				X		08									
Tank 2S-13						13				1020				X		09									
Tank 2S-15		↓		↓		15		↓		1005		↓		X		10									
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Waste Water DW - Drinking Water OT - Other				Remarks:				Samples returned via: UPS ☒ FedEx ☐ Courier ☐				Tracking # 6436 7133 9897				pH _____ Temp _____ Flow _____ Other _____				Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☒ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N					
Relinquished by: (Signature) 		Date: 5/19/17		Time: 1200		Received by: (Signature) 		Trip Blank Received: Yes/No HCL / MeOH TBR		Temp: °C 4.1		Bottles Received: 65		If preservation required by Login: Date/Time											
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: °C		Bottles Received:		Condition: 5-086 NCF / OK													
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: 5/19/17		Time: 12:45															

[illegible]



SOURCE: © 2017 GOOGLE EARTH PRO

LEGEND

- ⊕ TANK 1N SOIL BORING NUMBER AND LOCATION
- DISPENSER 1 GRAB SAMPLE NAME AND LOCATION



SCALE: 1" = 20'



PREPARED FOR: PORTLAND PUBLIC SCHOOLS



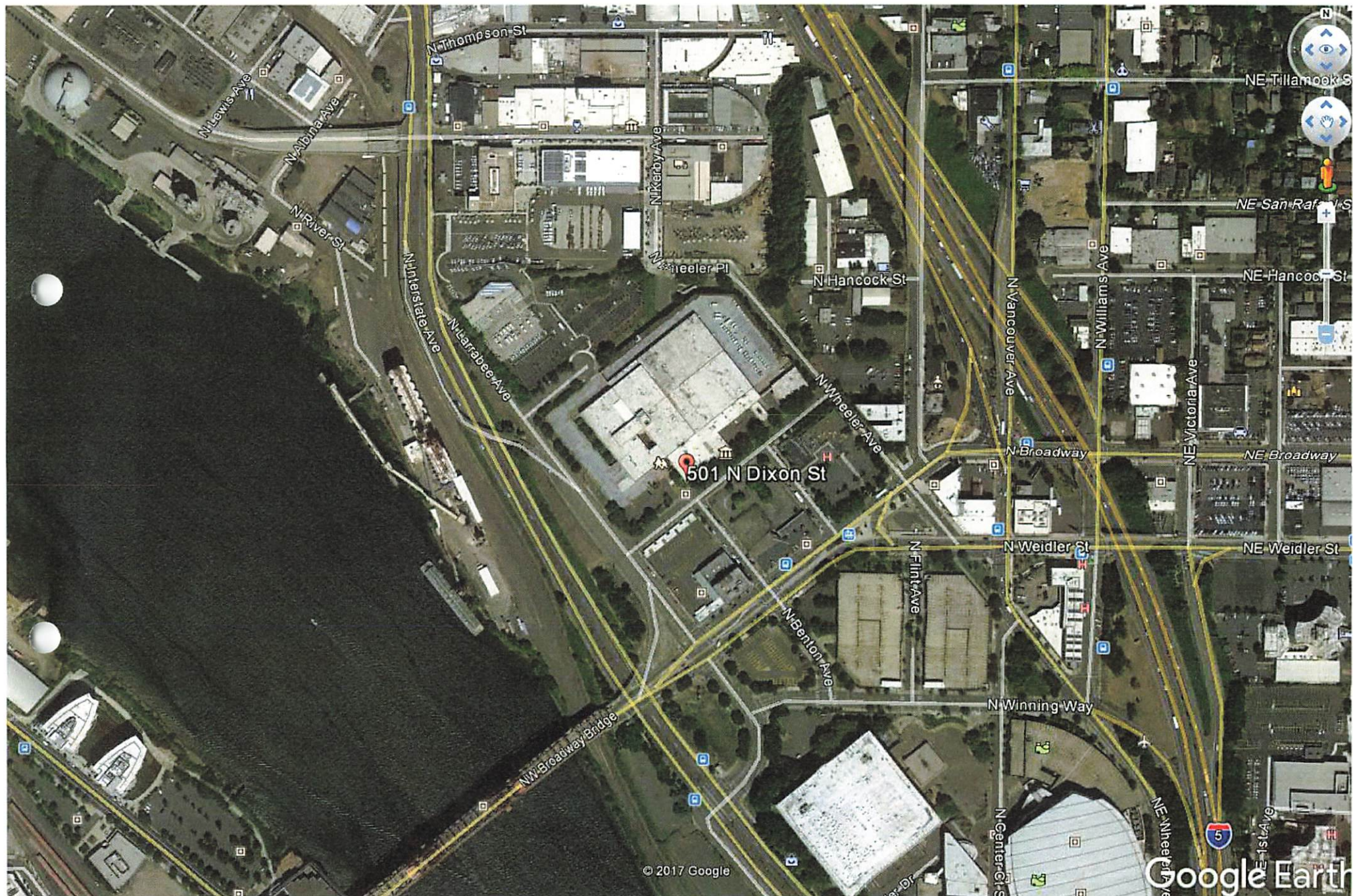
SITE PLAN - UST AND SAMPLING LOCATIONS

501 N DIXON STREET
PORTLAND, OREGON

JUNE 2017
22589.000

FIGURE

3





501 N DIXON ST
PORTLAND, OR 97227

PROPERTY

Year Built	1980	Assessor	
Description	MISCELLANEOUS	Property Values (2016)	
Building Area	515,400 sq ft		
Neighborhood	ELIOT	Market Value	\$88,765,800.00
Jurisdiction	Portland / Multnomah	Assessed Value	\$0.00
Zoning	IG1 - General Industrial 1	Taxes (2016)	
Elevation	95 ft (approximate)	Property Taxes	\$0.00
Owner	SCHOOL DISTRICT NO 1 (LEASED MULTNOMAH COUNTY ATTN FINANCE DEPT	Total Taxes	\$0.00
Owner Address	PO BOX 3107 PORTLAND, OR 97208- 3107		
Related Accounts	▼		

Permits & Zoning

Parks

Bureau of Development Services

Phone: 503-823-7300

Zoning Hotline: 503-823-7526



Address	501 N DIXON ST
Address2	PORTLAND, OR 97227
City	PORTLAND
Property ID	R156146
Tax Roll	ELIZABETH IRVINGS ADD, BLOCK 18 TL 6600
Use	PUBLIC BLDG
Block	18 TL 6600
County	Multnomah
State ID	1N1E27DC 6600
Alt Account Number	R244902080
Map Number	2829 OLD
Related Accounts	
Land Type	INDUSTRIAL LAND
Total Land Area	2.89 acres
Assessor Update Date	05/29/2017 7:24AM

Name	SCHOOL DISTRICT NO 1(LEASED MULTNOMAH COUNTY ATTN FINANCE DEPT
Type	OWNER (PRIMARY)
Address	PO BOX 3107
City	PORTLAND
State	OR
Zip Code	97208-3107

Sale Date	Type	Instrument	Sale Price
-----------	------	------------	------------

Sale Date	Type	Instrument	Sale Price
	OTHER		\$0.00
	INST		\$0.00

Improvements

Improvement Type	MISCELLANEOUS
Improvement Value	\$86,203,760.00
Building Class	PUBLIC BLDG
Actual Year Built	1980
Number Of Segments	2

Segment Number	Segment Type	Class	Area Sq Ft
1	MAIN		257700
2	BSMT FINISHED		257700

Assessment History

Year	Improvements	Land	Special Use	Real Market	Exemptions	Assessed
2016	\$86,203,760.00	\$2,562,040.00	\$0.00	\$88,765,800.00	\$88,765,800.00	\$0.00
2015	\$71,836,470.00	\$2,135,040.00	\$0.00	\$73,971,510.00	\$73,971,510.00	\$0.00
2014	\$66,515,250.00	\$1,976,880.00	\$0.00	\$68,492,130.00	\$68,492,130.00	\$0.00
2013	\$66,515,250.00	\$1,976,880.00	\$0.00	\$68,492,130.00	\$68,492,130.00	\$0.00
2012	\$66,515,250.00	\$1,976,880.00	\$0.00	\$68,492,130.00	\$68,492,130.00	\$0.00
2011	\$66,515,250.00	\$1,976,880.00	\$0.00	\$68,492,130.00	\$68,492,130.00	\$0.00
2010	\$66,515,250.00	\$1,976,880.00	\$0.00	\$68,492,130.00	\$68,492,130.00	\$0.00
2009	\$66,515,250.00	\$1,976,880.00	\$0.00	\$68,492,130.00	\$68,492,130.00	\$0.00
2008	\$66,515,250.00	\$1,976,880.00	\$0.00	\$68,492,130.00	\$68,492,130.00	\$0.00
2007	\$63,347,860.00	\$1,882,750.00	\$0.00	\$65,230,610.00	\$65,230,610.00	\$0.00
2006	\$63,347,860.00	\$1,882,750.00	\$0.00	\$65,230,610.00	\$65,230,610.00	\$0.00
2005	\$63,347,860.00	\$1,743,280.00	\$0.00	\$65,091,140.00	\$65,091,140.00	\$0.00
2004	\$57,588,960.00	\$1,584,800.00	\$0.00	\$59,173,760.00	\$59,173,760.00	\$0.00
2003	\$57,588,960.00	\$1,584,800.00	\$0.00	\$59,173,760.00	\$59,173,760.00	\$0.00
2002	\$55,374,000.00	\$1,523,850.00	\$0.00	\$56,897,850.00	\$56,897,850.00	\$0.00

Year	Improvements	Land	Special Use	Real Market	Exemptions	Assessed
2001	\$55,374,000.00	\$1,523,850.00	\$0.00	\$56,897,850.00	\$56,897,850.00	\$0.00
2000	\$44,299,200.00	\$1,219,080.00	\$0.00	\$45,518,280.00	\$45,518,280.00	\$0.00
1999	\$36,916,000.00	\$1,015,900.00	\$0.00	\$37,931,900.00	\$37,931,900.00	\$0.00
1998	\$33,257,700.00	\$915,200.00	\$0.00	\$34,172,900.00	\$34,172,900.00	\$0.00
1997	\$31,065,700.00	\$871,600.00	\$0.00	\$31,937,300.00	\$31,937,300.00	\$0.00

Tax Districts

Code	Description
101	PORT OF PORTLAND
130	CITY OF PORTLAND
130L	CITY OF PORTLAND - NEW LEVIES
130M	CITY OF PORTLAND PARKS LOP
143	METRO
164	EAST MULT SOIL/WATER
170	MULTNOMAH COUNTY
170L	MULT CO LIBRARY LOCAL OPT TAX
171	URBAN RENEWAL PORTLAND
173	URB REN SPECIAL LEVY - PORTLAND
198	TRI-MET TRANSPORTATION
304	MULTNOMAH ESD
309	PORTLAND COMM COLLEGE
311	PORTLAND SCHOOL DIST #1

Tax History

Year	Property Tax	Total Tax
2016	\$0.00	\$0.00
2015	\$0.00	\$0.00
2014	\$0.00	\$0.00
2013	\$0.00	\$0.00

Year	Property Tax	Total Tax
2012	\$0.00	\$0.00
2011	\$0.00	\$0.00
2010	\$0.00	\$0.00
2009	\$0.00	\$0.00
2008	\$0.00	\$0.00
2007	\$0.00	\$0.00
2006	\$0.00	\$0.00
2005	\$0.00	\$0.00
2004	\$0.00	\$0.00
2003	\$0.00	\$0.00
2002	\$0.00	\$0.00
2001	\$0.00	\$0.00
2000	\$0.00	\$0.00
1999	\$0.00	\$0.00
1998	\$0.00	\$0.00
1997	\$0.00	\$0.00

Tax Maps

Quarter Section	Size
1n1e27dc (Current Property)	124.8 KB
1n1e27	117.5 KB
1n1e27aa	567.8 KB
1n1e27ab	581.9 KB
1n1e27abd	19.7 KB
1n1e27ac	170.5 KB
1n1e27ad	288.2 KB
1n1e27ba	292.7 KB
1n1e27bb	147.2 KB
1n1e27bc	59.4 KB
1n1e27bd	153.6 KB

IN IE 27DC
PORTLAND

SEE MAP IN IE 2708

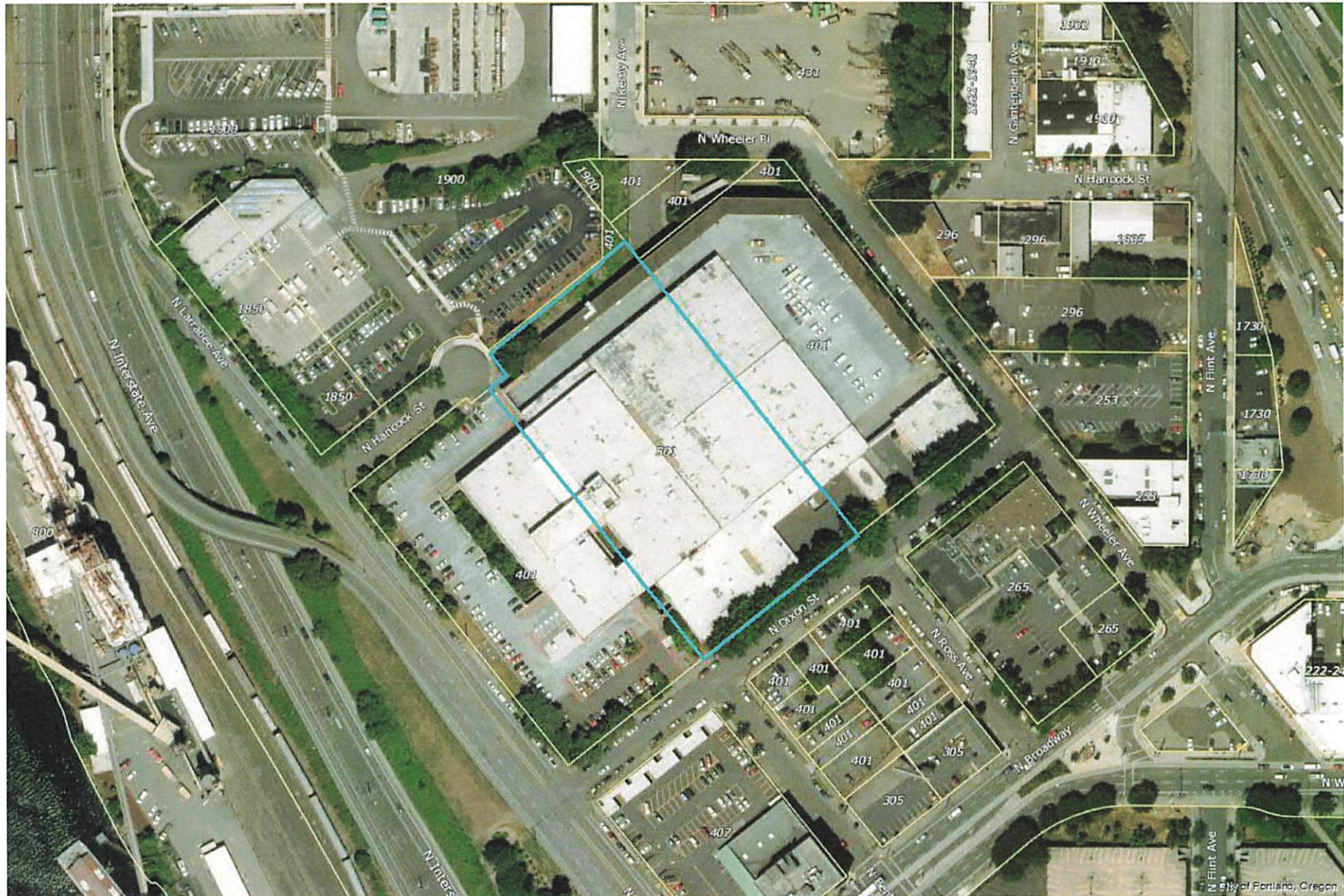
1/16 COR.

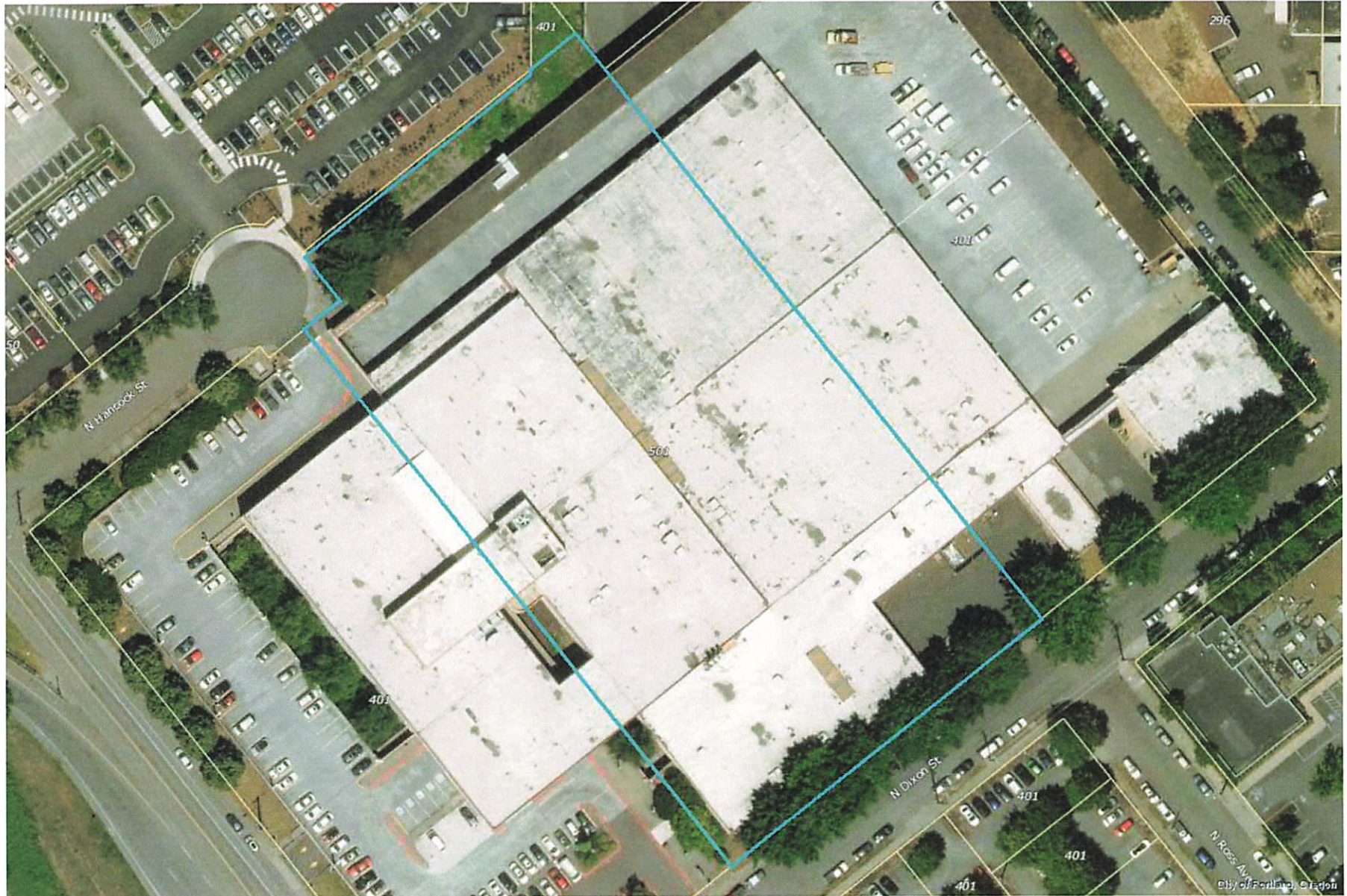
SEE MAP IN IE 27CD

SEE MAP IN IF 2700

CANCELLED NO.
1800
1900
— 2000
2100
— 3500
3800
3900
4000
4100

IN IE 27DC
PORTLAND







Oregon

Kate Brown, 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

May 23, 2017

Jeff Brandt
Portland Public Schools
PO Box 3107
Portland, OR 97208

RE: Cleanup Needed for Petroleum Leak
Portland Public Schools
501 N. Dixon Street, Portland, OR 97227
DEQ File No.: 26-17-0573

Dear Mr. Brandt,

The Oregon Department of Environmental Quality (DEQ) was notified on May 23, 2017 of a petroleum leak associated with an underground storage tank system at 501 N. Dixon Street, Portland, Oregon. This leak appears to have contaminated soil and/or groundwater with petroleum products.

We understand that you have current or past ownership or operational responsibility for the property and the underground storage tank system. Oregon law considers you a responsible party for environmental cleanup, and you are required to clean up this contamination to a level that protects human health and the environment. If you believe you are not a responsible party for this petroleum leak, please contact us immediately so that we can review the ownership and facility operation records for the property.

If you choose to hire and rely upon a qualified contractor or consultant, DEQ recommends that you still become familiar with Oregon's environmental cleanup requirements. A copy of the Underground Storage Tank Cleanup Manual and other guidance documents can be obtained by calling our toll-free number at 1-800-742-7878 or by visiting the following web sites:

<http://www.deq.state.or.us/lq/pubs/docs/tanks/USTCleanupManual.pdf>
<http://www.deq.state.or.us/pubs/reports.htm#cuguidance>

We are committed to helping you achieve a cost-effective environmental cleanup of the release from this underground storage tank system. When the cleanup of this petroleum release meets Oregon standards, DEQ will be able to close the file by issuing a "No Further Action" letter to you.

You will need DEQ oversight for your work to help you make sure that your environmental cleanup

Portland Public Schools
File #26-17-0573
May 23, 2017
Page 2

meets minimum regulatory and technical standards. Oregon law requires DEQ to invoice responsible parties for staff time spent on oversight of cleanup projects. DEQ tracks and bills for this time monthly, beginning with the reporting of the release and continuing through project oversight and final site closure. Staff time may include reviewing reports, preparing correspondence, answering technical questions, meeting with you or your contractor, site inspections, and enforcement actions.

Please complete, sign, and submit the enclosed Cost Recovery Agreement if you would like to expedite assignment of a DEQ project manager to your project. Even if you do not sign the agreement, you are still responsible for investigation and/or cleanup of the contamination, as well as for DEQ oversight costs. Note that DEQ staff workloads are heavy and there may be a delay in assigning your cleanup project to a project manager.

Please also complete and return the enclosed 20-day Report within twenty (20) days from the date of this letter, as required under Oregon Administrative Rule (OAR) 340-122-0225(3). You also have additional reporting obligations, as listed in the attachment, including due dates for various documents that you will need to provide to DEQ.

We realize that environmental cleanups are expensive and that our requirements can be difficult to understand, so please do not hesitate to contact the DEQ with any questions you may have. Please reference the DEQ file number and site name listed above in all inquiries and reports. If you have any questions, please contact our Program Coordinator, Kevin Dana, at (503) 229-5369.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kevin Parrett', with a long horizontal flourish extending to the right.

Kevin Parrett, Manager
DEQ NWR Cleanup and Tanks

Enclosures

GAMOLO Gerald

From: GAMOLO Gerald
Sent: Tuesday, May 23, 2017 2:20 PM
To: 'SCOTT_BRAUNSTEN@PBSENV.COM'
Cc: DANA Kevin
Subject: OLPRR Incident Report in Accepted Status. Log Number: 26-17-0573

Your on-line tank data submittal has been reviewed and accepted by the State of Oregon DEQ.
New LUST Incident Log Number: 26-17-0573

Reported by: SCOTT BRAUNSTEN
Company Name: PBS ENGINEERING & ENVIRONMENTAL Phone Number: 503-417-7737

Site Name: PORTLAND PUBLIC SCHOOLS
Site Address: 501 N DIXON ST
Site County: MULTNOMAH
Site City: PORTLAND
Site Zip Code: 97227

Date Received: 5/23/2017
Release Type: Regulated
Facility ID: 7666

RESPONSIBLE PARTY INFORMATION

First Name:
Jeff
Last Name:
Brandt
Organization:
Portland Public Schools
City:
Portland
Phone:
(503) 916-2000
Address:
PO Box 3107
State:
OR
Zip:
97208
Email:
jbrandt1@pps.net

INVOICE CONTACT INFORMATION

First Name:
Jeff
Last Name:
Brandt
Organization:
Portland Public Schools
City:
Portland
Phone:
(503) 916-2000
Address:
PO Box 3107
State:
OR
Zip:
97208
Email:
jbrandt1@pps.net

Confirmation: Lab:RP
Discovery: Decommissioning
Cause: Unknown

MEDIA TYPE
Soil

CONTAMINANT TYPE
Diesel (Motor Fuel)



Oregon

Kate Brown, Governor

Department of Environmental Quality
Northwest Region
700 Multnomah Street Suite 600
Portland OR 97232
800-452-4011

September 7, 2017

Mr. Jeff Brandt
Portland Public Schools
P.O Box 3107
Portland, OR 97208

RE: No Further Action Determination
for Portland Public Schools
501 N. Dixon Street, Portland OR 97227
LUST #26-17-0573

Dear Mr. Brandt:

The Oregon Department of Environmental Quality (DEQ) has completed a review of the available information and the closure report entitled Underground Storage Tank Decommissioning Report, dated June 21, 2017 and submitted to DEQ on your behalf. The Portland Public Schools address is 501 N Dixon Street, Portland, OR 97227, Tax Lot 06600 on Multnomah County Map No. 1N 1E 27DC.

DEQ has determined that remedial action to address environmental contamination at Portland Public Schools is complete, and no further action is required. This determination is based on DEQ regulations and the facts as we now understand them including, but not limited to the following:

- In May, 2017, two underground storage tanks, one for gasoline (12,000 gallon capacity) and the other for diesel (2,500 gallon capacity) were abandoned in place.
- Dispensers and product lines were removed and 227 gallons of residual material was taken from the tanks and piping and disposed of at ORRCO Inc. in Portland, Oregon. The interior of the tanks were cleaned.
- A direct push drilling rig was used to advance 7 temporary wells for soil sampling around the tanks and product lines. No groundwater was encountered during the drilling which reached a maximum depth of 16 feet below ground surface (bgs)
- During drilling no odor or visible contamination was detected in the cuttings.
- Two compliance soil samples showed trace amounts of diesel-heavy oil product; one next to the diesel tank at 8.47 milligrams per kilogram (mg/kg) at 13 feet bgs and the other from beneath the dispensers at 28.6 mg/kg from 4 feet bgs. Both results are below the threshold level for the most stringent matrix cleanup level of 100 mg/kg.

- The tanks were opened and back filled with controlled density fill.

Based on the available information, Portland Public Schools is currently protective of public health and the environment. The site requires no further action under Oregon Administrative Rules (OAR 340-122-0205 through 340-122-0360) unless new or previously undisclosed information becomes available, or there are changes in site development or land and water uses, or more contamination is discovered. DEQ has updated the Leaking Underground Storage Tank (LUST) database to reflect this decision.

This letter only applies to the release discussed above. If any contaminated soil or groundwater is encountered in the future, it must be handled and disposed of in accordance with local, state and federal regulations.

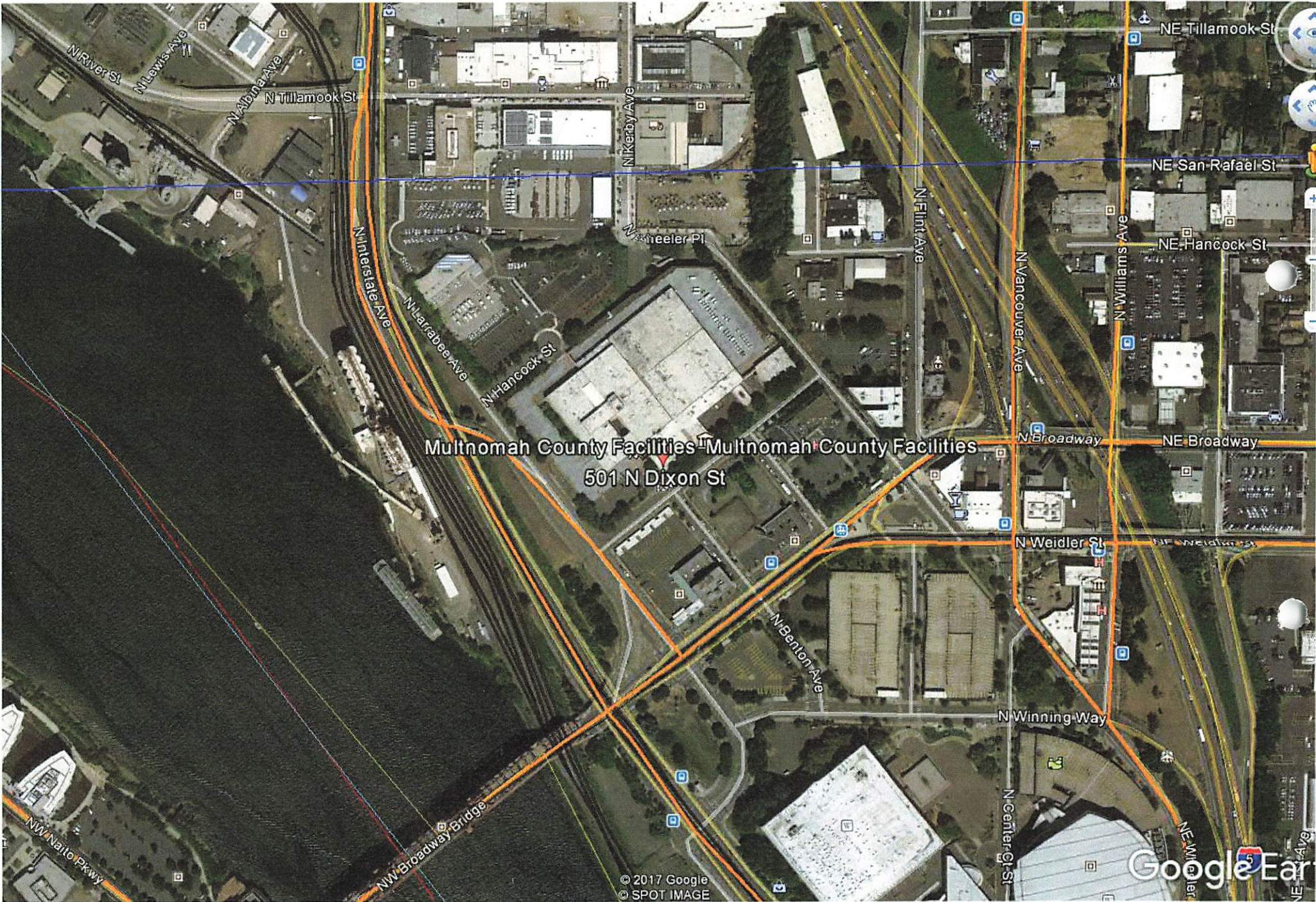
A copy of the reports supporting this No Further Action decision can be viewed at <http://www.deq.state.or.us/WebDocs/Forms/Output/LustOutput.aspx?SourceId=48433&SourceIdType=10>. DEQ recommends keeping a copy of all of the documentation associated with this remedial action with the permanent facility records. If you have any questions, please contact Kenneth Cameron at 503-229-5251 or via email at cameron.kenneth@deq.state.or.us.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Kevin Parrett', with a long horizontal flourish extending to the right.

Kevin Parrett, Manager
Northwest Region Cleanup Section

cc: Jeff Schatz
LUST File #26-17-0573



Review Type DEQ Office

NEW

NWR

First

Last

1 of 1

Records

Next

Back

OLPRR Review

Contractor
Maintenance

OLPRR# 25719

Incident Data

Reported By SCOTT BRAUNSTEN

RepBy Phone 503-417-7737

Company PBS ENGINEERING & ENVIRONMEN

Lookup LUST

Log Number 26-17-0573

Site Type Regulated

Site Name PORTLAND PUBLIC SCHOOLS

Received Date 5/23/2017

Site Address 501 N DIXON ST

Other

City PORTLAND

Zip Code 97227

County Multnomah

Facility Id 7666

Lookup UST

Phone

Responsible Party

First Name Jeff

Last Name Brandt

Organization Portland Public Schools

Address PO Box 3107

Address2

City Portland

State OR Zip Code 97208

Phone (503) 916-2000

E-Mail jbrandt1@pps.net

Mail Contacts

First Name Jeff

Last Name Brandt

Organization Portland Public Schools

Address PO Box 3107

Address2

City Portland

State OR Zip Code 97208

Phone (503) 916-2000

E-Mail jbrandt1@pps.net

Invoice Contact

First Name Jeff

Last Name Brandt

Organization Portland Public Schools

Address PO Box 3107

Address2

City Portland

State OR Zip Code 97208

Phone (503) 916-2000

E-Mail jbrandt1@pps.net

Site Assessment

Discover Date

5/22/2017

Discovery

Decommissioning

Cause

Unknown

Source

Dispenser

Confirmation

Lab:RP

Contaminants

☐ Heating Oil☐ Waste Oil☐ Other Pet. Dist.☐ Leaded Gasoline☐ Unleaded Gasoline☐ Chemical☐ Misc. Gasoline☐ Lubricant☐ MTBE☒ Diesel (Motor Fuel)☐ Solvent☐ Unknown

Impacted Media

☐ Groundwater☐ Surface Water☐ Drinking Water☐ Free Product☐ Vapor☒ Soil

Accept

Hold

Decline

Close

QH# 45591

FIR = 9/18/17

Closed = 12/15/17

Underground Storage Tank Decommissioning Report

Portland Public Schools
501 N Dixon Street
Portland, Oregon 97227
DEQ Facility Number 7666
LUST File Number 26-17-0573

Prepared for:
Portland Public Schools
301 N Dixon Street
Portland, Oregon 97227

June 2017
PBS Project No. 22589.000



4412 SW CORBETT AVENUE
PORTLAND, OR 97239
503.248.1939 MAIN
866.727.0140 FAX
PBSUSA.COM

TABLE OF CONTENTS

1	BACKGROUND	1
2	UNDERGROUND STORAGE TANK DECOMMISSIONING IN PLACE	1
2.1	UST Decommissioning.....	1
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SUPPORTING DATA

FIGURES

Figure 1. Vicinity Map

Figure 2. Site Plan

Figure 3. Site Plan – UST and Sampling Locations

TABLE

Table 1. Soil Analytical Results

APPENDICES

APPENDIX A: Disposal Receipts

APPENDIX B: Photographic Documentation

APPENDIX C: Boring Logs

APPENDIX D: Laboratory Reports

APPENDIX E: DEQ Forms

1 BACKGROUND

This report details the decommissioning of one 12,000-gallon gasoline underground storage tank (Tank 1) and one 2,500-gallon diesel underground storage tank (Tank 2) at the Portland Public Schools facility (site) located at 501 N Dixon Street in Portland, Oregon (Figures 1 through 3). Portland Public Schools (Client) contracted directly with Cowlitz Clean Sweep (CCS) of Longview, Washington, for underground storage tank (UST) decommissioning services. PBS Engineering and Environmental Inc. (PBS) provided oversight of decommissioning and backfill activities, the collection and analysis of confirmation soil samples, and reporting.

2 UNDERGROUND STORAGE TANK DECOMMISSIONING IN PLACE

2.1 UST Decommissioning

CCS began decommissioning activities on May 17, 2017. The dispensers were removed, product lines were rinsed, and the residual product flowed back to the tanks. The manway into the diesel UST was then opened and residual product removed. CCS cut a hole in the base of the diesel tank and water began flowing into the UST. The water was believed to be interstitial brine between the two walls of the tank and not groundwater. The hole was plugged and CCS finished cleaning the interior of the tank. An alternative method of soil sampling via direct push probe was conducted in lieu of sample collection through the bottom of the UST (see Section 2.2 below).

On May 18, 2017, CCS and PBS returned to the site to decommission the gasoline UST. Residual product was removed and the interior of the tank was cleaned. A total of 227 gallons of product was removed and transported to ORRCO Inc. in Portland, Oregon for recycling. A copy of the disposal receipt is included in Appendix A.

All product lines and piping were removed for disposal. PBS collected four soil samples, one beneath each of the three dispensers and one 20 feet from the westernmost dispenser along the product line. The soils retrieved beneath the dispensers and along the product line were absent of field evidence of contamination.

On May 24, 2017, the tanks were filled with controlled density fill (CDF). Photographic documentation of decommissioning activities is provided in Appendix B.

2.2 Soil Sampling

PBS was on site on May 19, 2017 to conduct the drilling investigation, with Western States Soil Conservation, Inc. of Hubbard, Oregon, providing drilling services. A direct-push drill rig was used to advance seven borings at the site. Borings were advanced to depth of 15 to 20 feet below ground surface (bgs) except for boring Pipe30, which was advanced to 5 feet bgs to collect a sample along the former pipe run. With the exception of the Pipe30 sample, all soil samples were collected from between 13 and 16 feet bgs (shallow sample) and between 15 and 18 feet bgs (deeper sample) for each of the borings.

Figure 3 shows the locations of the temporary boreholes advanced at the site. In all borings, soils were logged continuously, noting grain size, color, odor, and moisture. Photoionization detector (PID) measurements were taken to assess for the presence of volatile contaminants. For the PID screening, soil was placed in a disposable zipper-type plastic bag that was sealed, gently shaken, and allowed to rest for 5 to 15 minutes. The PID tip was then inserted into the bag to measure total volatile compounds.

All samples were collected in laboratory-supplied containers, sealed, labeled, and placed on ice in a cooler and transported to ESC Lab Sciences of Mt. Juliet, Tennessee, with chain-of-custody documentation. Analyses were

conducted under normal turnaround time. Selected soil samples were analyzed for one or more of the following:

- Gasoline-range total petroleum hydrocarbon (TPH) by NW Method TPH-Gx
- Diesel- and heavy oil-range TPH by NW Method TPH-Dx

Sampling equipment and drill rods were decontaminated between borings using a detergent wash and tap water rinse. PBS personnel wore new disposable nitrile gloves when collecting samples. Upon completion of sampling, temporary boreholes were backfilled and sealed with bentonite to 6 inches below grade, and the surface was restored to match the surrounding area.

2.3 Soil Field Observations

The surface of most of the site was covered by pavement. Generally, the subsurface across the site consisted of gravel with sand to depths ranging from 0 to 13 feet bgs, below which was brown sand with variable amounts of silt. Groundwater was not encountered in any of the boreholes. Graphic boring logs are provided in Appendix C.

No field evidence of contamination, such as staining or odors, was observed during drilling. Specifically, no olfactory or visual impacts were detected in soils collected from the seven borings advanced at the site. PID readings of soil headspace ranged from zero parts per million (ppm) to 0.9 ppm.

2.4 Laboratory Results

Laboratory testing revealed no detectable petroleum hydrocarbons except in samples Tank 2W-13 and Dispenser 2-4, in which diesel-range petroleum hydrocarbons were detected. Sample Tank 2W-13 contained 8.47 milligrams per kilogram (mg/kg) diesel-range petroleum hydrocarbons, and sample Dispenser 2-4 contained 28.6 mg/kg. Table 1 summarizes the analytical results; the laboratory reports are provided in Appendix D.

2.5 DEQ Reporting

Based on the concentrations of diesel detected in the soil samples, a release was reported by PBS to the Oregon DEQ on May 23, 2017. The DEQ assigned Leaking Underground Storage Tank (LUST) File Number 26-17-0573.

2.6 Soil Matrix Evaluation

Based on the laboratory results, it is appropriate to pursue LUST file closure under soil matrix rules. As the detections for all confirmation soil samples were below the most stringent (Level 1) Soil Matrix cleanup level of 100 mg/kg, completion of a Soil Matrix Scoresheet is not necessary.

3 CONCLUSION

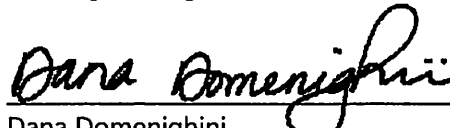
The USTs were decommissioned in place between May 17 and May 24, 2017. A confirmed release of diesel was detected beneath Tank 2 and Dispenser 2, but at concentrations below the most stringent Soil Matrix cleanup levels. The completed Initial (Twenty Day) Report Form for UST Cleanup Projects and UST Checklist are included in Appendix E. No further action is warranted at this time. It is recommended that this Underground Storage Tank Decommissioning Report be submitted to DEQ to consider LUST File No. 26-17-0573 for regulatory closure.

4 LIMITATIONS

PBS has prepared this report for use by Portland Public Schools. This report is for the exclusive use of the Client and is not to be relied upon by other parties. It is not to be photographed, photocopied, or similarly reproduced in total or in part without the express written consent of the client and PBS.

This study was limited to the tests, locations, and depths as indicated to determine the absence or presence of certain contaminants. The site as a whole may have other contamination that was not characterized by this study. The findings and conclusions of this report are not scientific certainties but probabilities based on professional judgment concerning the significance of the data gathered during the course of this investigation. PBS is not able to represent that the site or adjoining land contain no hazardous waste, oil, or other latent conditions beyond that detected or observed by PBS.

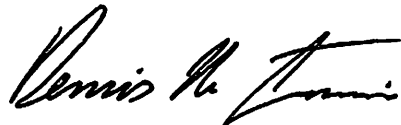
PBS Engineering and Environmental Inc.



Dana Domenighini
Staff Scientist

6/20/2017

Date



Dennis Terzian, RG
Senior Geologist

6/20/2017

Date



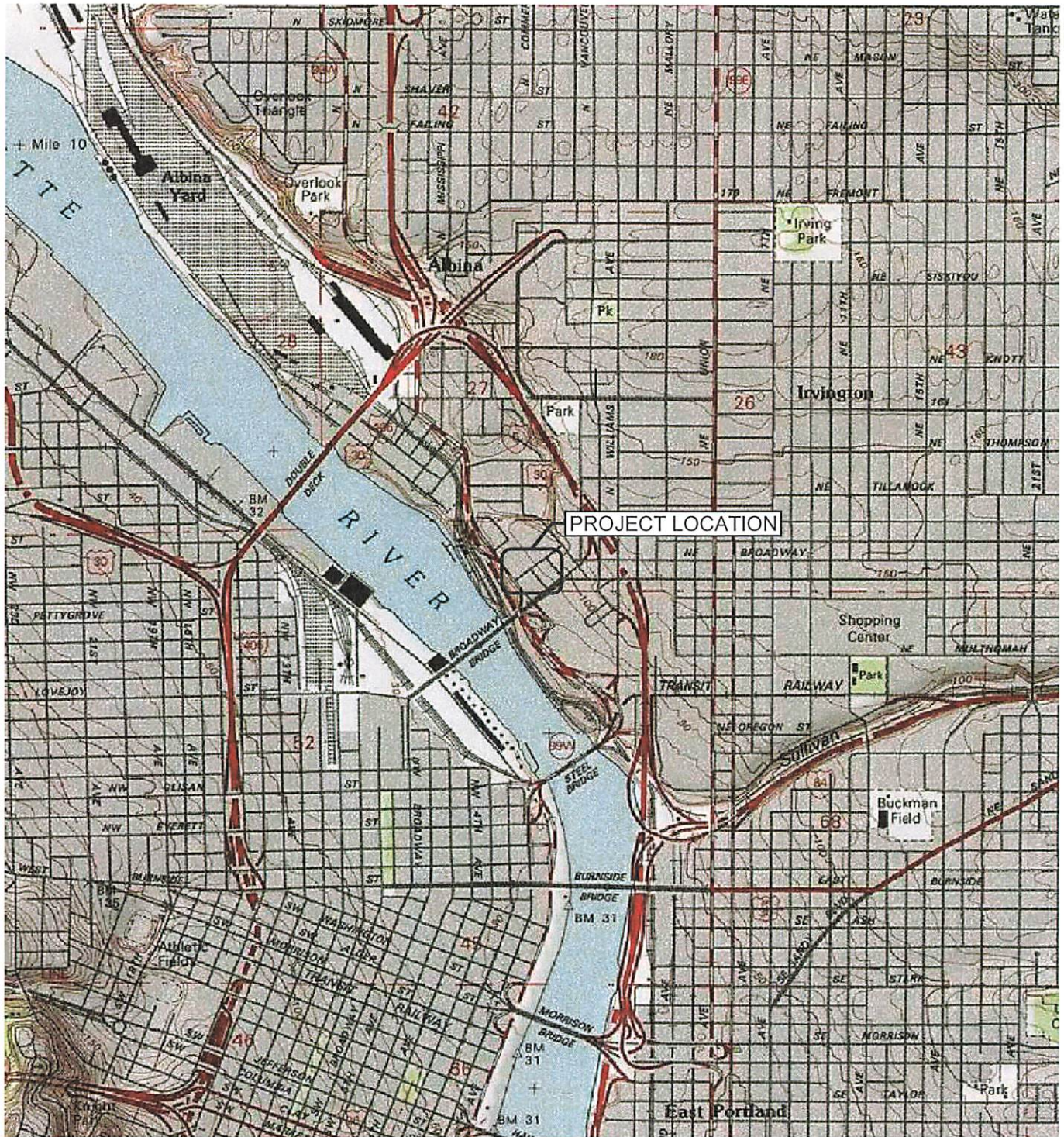
Expires 1/1/2018

FIGURES

Figure 1. Vicinity Map

Figure 2. Site Plan

Figure 3. Site Plan – UST and Sampling Locations



SOURCE: USGS PORTLAND, OR QUADRANGLE 1990.



OREGON



SCALE: 1" = 2,000'



PREPARED FOR: PORTLAND PUBLIC SCHOOLS



VICINITY MAP

501 N DIXON STREET
PORTLAND, OREGON

JUNE 2017
22589.000

FIGURE

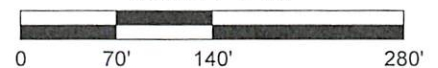
1



SOURCE: © 2017 GOOGLE EARTH PRO



SCALE: 1" = 140'



PREPARED FOR: PORTLAND PUBLIC SCHOOLS



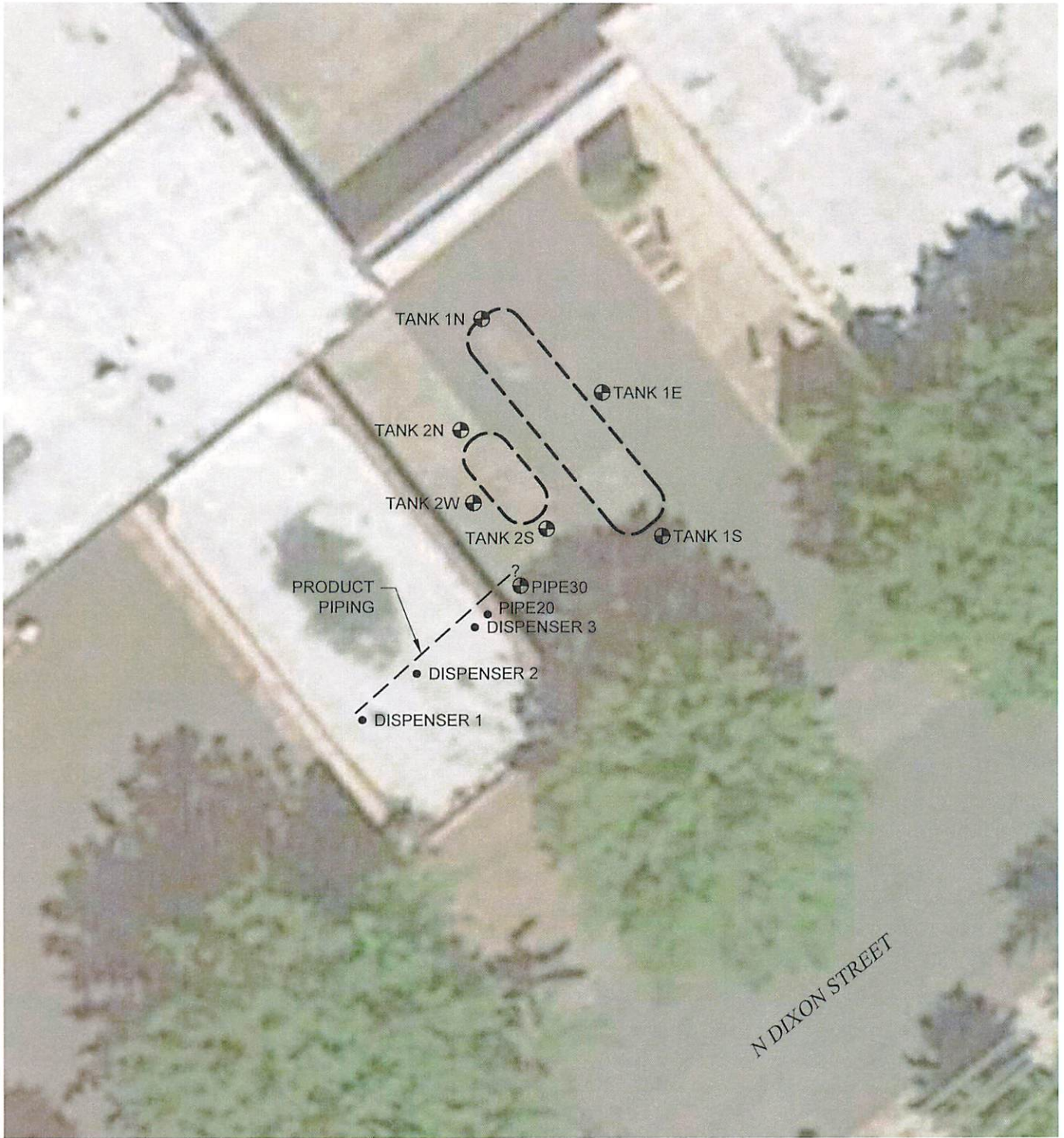
SITE PLAN

501 N DIXON STREET
PORTLAND, OREGON

JUNE 2017
22589.000

FIGURE

2



SOURCE: © 2017 GOOGLE EARTH PRO

LEGEND

- ⊕ TANK 1N SOIL BORING NUMBER AND LOCATION
- DISPENSER 1 GRAB SAMPLE NAME AND LOCATION



SCALE: 1" = 20'



PREPARED FOR: PORTLAND PUBLIC SCHOOLS



SITE PLAN - UST AND SAMPLING LOCATIONS

501 N DIXON STREET
PORTLAND, OREGON

JUNE 2017
22589.000

FIGURE

3

TABLE

Table 1. Soil Analytical Results

Table 1. Soil Analytical Results
501 N Dixon Street
Portland, Oregon
Portland Public Schools

			Total Petroleum Hydrocarbons		
Sample ID	Sampling Depth (feet bgs)	Sampling Date	Gasoline	Diesel	Heavy Oil
			mg/kg		
Tank 1N-16	16	5/19/2017	<5.39	--	--
Tank 1S-15	15	5/19/2017	<4.70	--	--
Tank 1E-15	15	5/19/2017	<4.63	--	--
Tank 2N-13	13	5/19/2017	--	<4.42	<11.0
Tank 2S-13	13	5/19/2017	--	<4.38	<11.0
Tank 2W-13	13	5/19/2017	--	8.47	<11.6
Dispenser 1-4	4	5/18/2017	<4.67	<4.49	<11.2
Dispenser 2-4	4	5/18/2017	<4.72	28.6	<10.6
Dispenser 3-4	4	5/18/2017	<4.66	<4.52	<11.3
Pipe20-3	3	5/18/2017	<4.81	<4.50	<11.2
Pipe30-5	5	5/19/2017	<5.88	<5.11	<12.8
Oregon RBC - Soil Ingestion, Dermal Contact, and Inhalation ¹		Occupational	20,000	14,000	
		Construction Worker	9,700	4,600	
		Excavation Worker	>MAX	>MAX	
Oregon RBC - Volatilization to Outdoor Air ¹		Occupational	69,000	>MAX	
Oregon RBC - Vapor Intrusion into Buildings ¹		Occupational	>MAX	>MAX	
Oregon RBC - Leaching to Groundwater ¹		Occupational	130	>MAX	

See laboratory report for full list of analytes and quality-control data.

Bold text, if present, indicates an exceedance of one or more of the cleanup levels.

--: analyte not tested

<: Not detected above the laboratory reporting limit

>MAX: The RBC for this pathway is greater than 1,000,000 mg/kg. This substance is not deemed to pose a risk in this scenario

¹Oregon Risk-Based Decision-Making for the Remediation of Petroleum-Contaminated Sites, Oregon DEQ Sept. 2003, Revised RBCs November 1, 2015.

APPENDIX A

Disposal Receipts



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

RECEIVING RECORD

R 01-17-0614-006

Received From:

Cowlitz Clean Sweep
55 International Way
Longview WA 98632
EPA# WAD988467197
Phone: 360-423-6316
Customer ID# 711
Driver: josh

Receiving Location: Plant

FPI
4150 N. Suttle Road
Portland, OR 97217
Phone 503-286-8352
EPA# ORD980975692

Date	Terms	Written By	Sales Rep.	Page			
06/14/17	-0-	Cody		1 of 1			
Line	Qty.	Unit	Item	%H2O	Manifest #	B/L#	Net Qty
1	1	Each	Hydro Chlor-D-Test Kit		8517158		
			Generator ID# 0	See Comments			
		Total	Each	1.			
2	201	Gal.	Emulsified Fuel		8517158		
			Generator ID# 0	See Comments			
			profile on file. hcdt nd				
3	26	Gal.	Suspended Solids		8517158		
			Generator ID# 0	See Comments			
		Total	Gal.	227.			

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

Signed X _____ DATE: 06/14/17

Please print or type
(Form designed for use on 12-pitch typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number CEG	2. Page 1 of 1	3. Emergency Response Phone 888-423-6316	4. Waste Tracking Number 8517158	
5. Generator's Name and Mailing Address Portland Public Schools 503-916-2000 Generator's Phone: 501 N. Dixon St. Portland, OR 97227, USA			Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name CCS A DIVISION OF PNE CORP.			U.S. EPA ID Number WAH000014944			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address ORRGO INC. 4150 N. SUTTLE ROAD - PORTLAND, OR 97217 USA Facility's Phone: 888-367-8894			U.S. EPA ID Number ORD980976892			
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	1. UN 1203, Flammable Liquid, n.c.s., 3, P211 gas/water/diesel mixture		No.	Type		
			01	TT	227	G.
	2.					
	3. CEMT					
4.						
13. Special Handling Instructions and Additional Information RECEIVING RECORD# CCS JOB# 8517158 TRUCK# 337167						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
TRANSPORTER INTL	Generator's/Offlor's Printed/Typed Name Scott G. Hillan on behalf of PPS		Signature [Signature]		Month Day Year 05 18 97	
	15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: Date leaving U.S.:			
	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Scott G. Hillan		Signature [Signature]		Month Day Year 05 18 97	
	Transporter 2 Printed/Typed Name [Signature]		Signature [Signature]		Month Day Year 05 18 97	
DESIGNATED FACILITY	17. Discrepancy					
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
	17b. Alternate Facility (or Generator)			U.S. EPA ID Number		
	Facility's Phone: 17c. Signature of Alternate Facility (or Generator)			Month Day Year		
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Cody Noy Signature [Signature] Month Day Year 16 11 17						

APPENDIX B

Photographic Documentation



Photo 1. View of the pump island and former dispenser locations. Area of product lines is indicated by arrow.

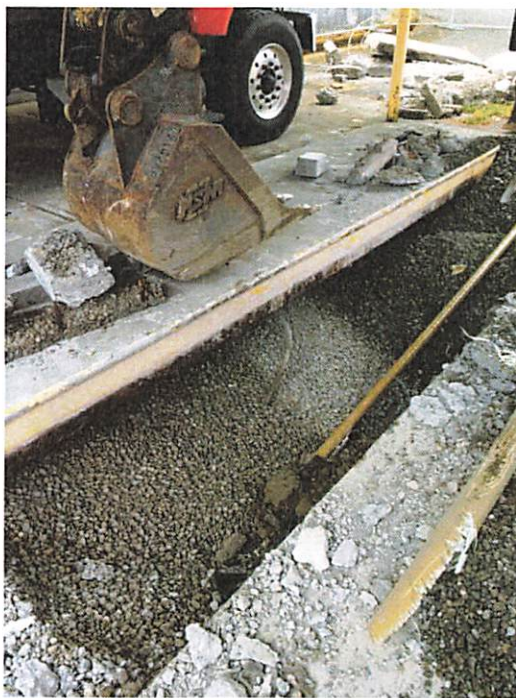


Photo 2. Removal of product lines and piping.



Photo 3. Opening of the manway cover to the diesel UST.



Photo 4. View of the interior of the diesel UST.



Photo 5. Diesel tank being filled with controlled density fill (CDF).



Photo 6. Gasoline tank filled with CDF.

APPENDIX C

Boring Logs



501 N DIXON STREET
PORTLAND, OREGON

BORING Pipe 30

PBS PROJECT NUMBER:
22589.000

BORING Pipe 30 LOCATION:
(See Site Plan)

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND- WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE/ TEMPORARY WELL(S)	RECOVERY (%)	COMMENTS/ WELL INSTALLATION
0.0		Well graded GRAVEL (GW) with sand; fine sand; fine to coarse, subrounded gravel; dry						
2.0		FILL Brown silty SAND (SM); non-plastic; fine sand; damp					60	No odor throughout
4.0				0.0	Pipe 30-5			
6.0		Final depth 5.0 feet bgs; boring backfilled with bentonite. Groundwater not encountered at time of exploration.						
8.0								
10.0								
12.0								
14.0								
16.0								
18.0								
20.0								
22.0								
24.0								

BORING METHOD: Push Probe
DRILLED BY: Western States Soil Conservation, Inc.
BORING BIT DIAMETER: 2 1/4-inch OD

LOGGED BY: D. Domenighini
COMPLETED: 5/19/17



501 N DIXON STREET
PORTLAND, OREGON

BORING Tank 1 E

PBS PROJECT NUMBER:
22589.000

BORING Tank 1 E LOCATION:
(See Site Plan)

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND- WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE/ TEMPORARY WELL(S)	RECOVERY (%)	COMMENTS/ WELL INSTALLATION
0.0		CONCRETE						
2.0		Gray poorly graded GRAVEL (GP) with sand; fine sand; fine, subrounded gravel; dry					30	No odor throughout
4.0		FILL		0.3				
6.0							50	
8.0								
10.0		Brown poorly graded SAND (SP-SM) with silt; non-plastic; fine sand; damp		0.2				
12.0		Gray poorly graded GRAVEL (GP) with sand; fine sand; fine, rounded gravel; damp						
14.0		FILL					50	
16.0		Brown poorly graded SAND (SP-SM) with silt; low plasticity; fine sand; damp		0.3				
18.0					Tank 1E-15			
20.0				0.4	Tank 1E-17		80	
22.0		Final depth 20.0 feet bgs; boring backfilled with bentonite. Groundwater not encountered at time of exploration.						
24.0								

BORING LOG-ENV/CORE 22589.000 BORINGS 20170609.GPJ DATATMPL.GDT PRINT DATE: 6/9/17/RPG

BORING METHOD: Push Probe
DRILLED BY: Western States Soil Conservation, Inc.
BORING BIT DIAMETER: 2 1/4-inch OD

LOGGED BY: D. Domenighini
COMPLETED: 5/19/17



501 N DIXON STREET
PORTLAND, OREGON

BORING Tank 1 N

PBS PROJECT NUMBER:
22589.000

BORING Tank 1 N LOCATION:
(See Site Plan)

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND- WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE/ TEMPORARY WELL(S)	RECOVERY (%)	COMMENTS/ WELL INSTALLATION
0.0		CONCRETE						
2.0		Gray poorly graded GRAVEL (GP) with sand; fine sand; fine, rounded gravel; dry					50	No odor throughout
4.0								
6.0		FILL		0.2				
8.0							20	
10.0		Fiberglass in shoe; no recovery		0.0				
12.0							0	
14.0								
16.0		Gray poorly graded GRAVEL (GP) with sand; fine sand; fine, rounded gravel; damp		0.0	Tank 1N-16			
18.0		FILL Brown silty SAND (SM); non-plastic; fine sand; damp			Tank 1N-18		70	
20.0		Final depth 20.0 feet bgs; boring backfilled with bentonite. Groundwater not encountered at time of exploration.		0.0				
22.0								
24.0								

BORING METHOD: Push Probe
DRILLED BY: Western States Soil Conservation, Inc.
BORING BIT DIAMETER: 2 1/4-inch OD

LOGGED BY: D. Domenighini
COMPLETED: 5/19/17



501 N DIXON STREET
PORTLAND, OREGON

BORING Tank 1 S

PBS PROJECT NUMBER:
22589.000

BORING Tank 1 S LOCATION:
(See Site Plan)

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND- WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE/ TEMPORARY WELL(S)	RECOVERY (%)	COMMENTS/ WELL INSTALLATION
0.0		CONCRETE						
2.0		Gray poorly graded GRAVEL (GP) with sand; fine sand; fine, rounded to subrounded gravel; dry					60	No odor throughout
4.0								
6.0		FILL		0.1				
8.0							40	
10.0				0.1				
12.0							50	
14.0		Brown silty SAND (SM); non-plastic; fine sand; damp			Tank 1S-15			
16.0				0.2				
18.0					Tank 1S-17		90	
20.0		Final depth 20.0 feet bgs; boring backfilled with bentonite. Groundwater not encountered at time of exploration.		0.2				
22.0								
24.0								

BORING METHOD: Push Probe
DRILLED BY: Western States Soil Conservation, Inc.
BORING BIT DIAMETER: 2¼-inch OD

LOGGED BY: D. Domenighini
COMPLETED: 5/19/17



501 N DIXON STREET
PORTLAND, OREGON

BORING Tank 2 N

PBS PROJECT NUMBER:
22589.000

BORING Tank 2 N LOCATION:
(See Site Plan)

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND- WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE/ TEMPORARY WELL(S)	RECOVERY (%)	COMMENTS/ WELL INSTALLATION
0.0		CONCRETE						
2.0		Gray well graded GRAVEL (GW) with sand; fine sand; fine to coarse, rounded to subrounded gravel; dry					50	No odor throughout
4.0								
6.0		FILL		0.4				
8.0							30	
10.0				0.3				
12.0		Brown silty SAND (SM); low plasticity; fine sand; damp					70	
14.0								
16.0		Final depth 15.0 feet bgs; boring backfilled with bentonite. Groundwater not encountered at time of exploration.		0.8	Tank 2N-15 Tank 2N-13			
18.0								
20.0								
22.0								
24.0								

BORING METHOD: Push Probe
DRILLED BY: Western States Soil Conservation, Inc.
BORING BIT DIAMETER: 2 1/4-inch OD

LOGGED BY: D. Domenighini
COMPLETED: 5/19/17

BORING LOG-ENVY CORE 22589.000 BORINGS 20170609.GPJ DATATMPL.GDT PRINT DATE: 5/9/17/RPG



501 N DIXON STREET
PORTLAND, OREGON

BORING Tank 2 S

PBS PROJECT NUMBER:
22589.000

BORING Tank 2 S LOCATION:
(See Site Plan)

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND- WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE/ TEMPORARY WELL(S)	RECOVERY (%)	COMMENTS/ WELL INSTALLATION
0.0		CONCRETE						
2.0		Gray poorly graded GRAVEL (GP) with sand; fine sand; fine, rounded to subrounded gravel; dry					20	No odor throughout
4.0								
6.0		FILL		0.8				
8.0							40	
10.0				0.4				
12.0		Brown poorly graded SAND (SP-SM) with silt; low plasticity; fine sand; damp					70	
14.0								
16.0		Final depth 15.0 feet bgs; boring backfilled with bentonite. Groundwater not encountered at time of exploration.		0.9	Tank 2S-15 Tank 2S-13			
18.0								
20.0								
22.0								
24.0								

BORING METHOD: Push Probe
DRILLED BY: Western States Soil Conservation, Inc.
BORING BIT DIAMETER: 2 1/4-inch OD

LOGGED BY: D. Domenighini
COMPLETED: 5/19/17



501 N DIXON STREET
PORTLAND, OREGON

BORING Tank 2 W

PBS PROJECT NUMBER:
22589.000

BORING Tank 2 W LOCATION:
(See Site Plan)

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	GROUND- WATER	PID (PPM)	SAMPLE NUMBER	SAMPLE/ TEMPORARY WELL(S)	RECOVERY (%)	COMMENTS/ WELL INSTALLATION
0.0		CONCRETE						
2.0		Gray well graded GRAVEL (GW) with sand; fine sand; fine to coarse, subrounded gravel; dry					10	No odor throughout
4.0								
6.0		FILL		0.2				
8.0							20	
10.0				0.1				
12.0		Brown poorly graded SAND (SP-SM) with silt; low plasticity; fine sand; damp					80	
14.0								
16.0		Final depth 15.0 feet bgs; boring backfilled with bentonite. Groundwater not encountered at time of exploration.			Tank 2W-13 Tank 2W-15			
18.0								
20.0								
22.0								
24.0				0.0				

BORING LOG-ENV-CORE 22589.000 BORINGS 20170609.GPJ DATATMPL.GDT PRINT DATE: 6/9/17.RPG

BORING METHOD: Push Probe
DRILLED BY: Western States Soil Conservation, Inc.
BORING BIT DIAMETER: 2 1/4-inch OD

LOGGED BY: D. Domenighini
COMPLETED: 5/19/17

APPENDIX D

Laboratory Reports

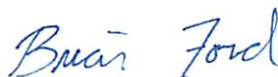
May 22, 2017

PBS Engineering & Env.- POR

Sample Delivery Group: L910572
Samples Received: 05/19/2017
Project Number: 22589.000
Description: PPS UST Decommissioning

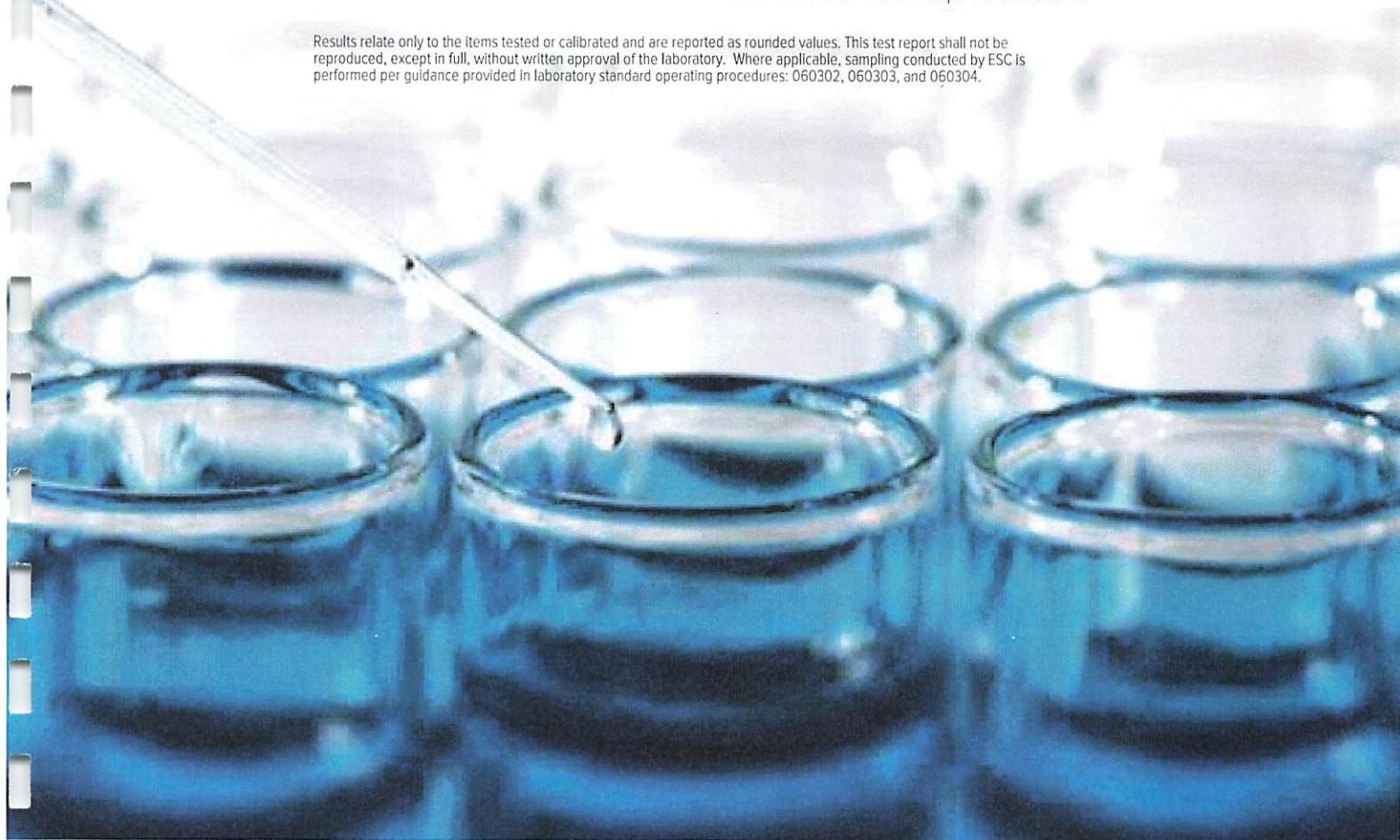
Report To: Scott Braunsten
4412 SW Corbett Ave
Portland, OR 97239

Entire Report Reviewed By:



Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1	1 Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	2 Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	3 Ss
PIPE20-3 L910572-01	5	
DISPENSER1-4 L910572-02	6	4 Cn
DISPENSER2-4 L910572-03	7	
DISPENSER3-4 L910572-04	8	5 Sr
Qc: Quality Control Summary	9	6 Qc
Total Solids by Method 2540 G-2011	9	
Volatile Organic Compounds (GC) by Method NWTPHGX	10	7 Gl
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	11	8 Al
Gl: Glossary of Terms	12	
Al: Accreditations & Locations	13	9 Sc
Sc: Chain of Custody	14	

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



PIPE20-3 L910572-01 Solid

Collected by Dana Domenighini
Collected date/time 05/18/17 11:50
Received date/time 05/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981348	1	05/19/17 14:16	05/19/17 14:24	MLW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG981771	1.07	05/18/17 11:50	05/21/17 22:20	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981488	1	05/19/17 21:33	05/20/17 17:48	ACM

DISPENSER1-4 L910572-02 Solid

Collected by Dana Domenighini
Collected date/time 05/18/17 12:25
Received date/time 05/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981348	1	05/19/17 14:16	05/19/17 14:24	MLW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG981771	1.04	05/18/17 12:25	05/21/17 22:42	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981488	1	05/19/17 21:33	05/20/17 18:02	ACM

DISPENSER2-4 L910572-03 Solid

Collected by Dana Domenighini
Collected date/time 05/18/17 12:05
Received date/time 05/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981348	1	05/19/17 14:16	05/19/17 14:24	MLW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG981771	1.11	05/18/17 12:05	05/21/17 23:04	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981488	1	05/19/17 21:33	05/20/17 18:15	ACM

DISPENSER3-4 L910572-04 Solid

Collected by Dana Domenighini
Collected date/time 05/18/17 12:10
Received date/time 05/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981348	1	05/19/17 14:16	05/19/17 14:24	MLW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG981771	1.03	05/18/17 12:10	05/21/17 23:26	BMB
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981488	1	05/19/17 21:33	05/20/17 18:29	ACM

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.9		1	05/19/2017 14:24	WG981348

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		4.81	1.07	05/21/2017 22:20	WG981771
(S) <i>o,o</i> -Trifluorotoluene(FID)	98.0		77.0-120		05/21/2017 22:20	WG981771

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.50	1	05/20/2017 17:48	WG981488
Residual Range Organics (RRO)	ND		11.2	1	05/20/2017 17:48	WG981488
(S) <i>o</i> -Terphenyl	89.4		18.0-148		05/20/2017 17:48	WG981488

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.0		1	05/19/2017 14:24	WG981348

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		4.67	1.04	05/21/2017 22:42	WG981771
(S) <i>o,o,o</i> -Trifluorotoluene(FID)	98.0		77.0-120		05/21/2017 22:42	WG981771

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.49	1	05/20/2017 18:02	WG981488
Residual Range Organics (RRO)	ND		11.2	1	05/20/2017 18:02	WG981488
(S) <i>o</i> -Terphenyl	94.3		18.0-148		05/20/2017 18:02	WG981488

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.1		1	05/19/2017 14:24	WG981348

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		4.72	1.11	05/21/2017 23:04	WG981771
(S) <i>o,o,a</i> -Trifluorotoluene(FID)	98.3		77.0-120		05/21/2017 23:04	WG981771

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	28.6		4.25	1	05/20/2017 18:15	WG981488
Residual Range Organics (RRO)	ND		10.6	1	05/20/2017 18:15	WG981488
(S) <i>o</i> -Terphenyl	72.3		18.0-148		05/20/2017 18:15	WG981488

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/18/17 12:10

L910572

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.5		1	05/19/2017 14:24	WG981348

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		4.66	1.03	05/21/2017 23:26	WG981771
(S) <i>o,o,o</i> -Trifluorotoluene(FID)	97.0		77.0-120		05/21/2017 23:26	WG981771

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.52	1	05/20/2017 18:29	WG981488
Residual Range Organics (RRO)	ND		11.3	1	05/20/2017 18:29	WG981488
(S) <i>o</i> -Terphenyl	76.5		18.0-148		05/20/2017 18:29	WG981488

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3219571-1 05/19/17 14:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000600			

L910553-43 Original Sample (OS) • Duplicate (DUP)

(OS) L910553-43 05/19/17 14:24 • (DUP) R3219571-3 05/19/17 14:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	95.2	93.5	1	1.79		5

Laboratory Control Sample (LCS)

(LCS) R3219571-2 05/19/17 14:24

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3219856-3 05/20/17 18:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.0339	4.00
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3219856-1 05/20/17 17:39 • (LCSD) R3219856-2 05/20/17 18:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.50	5.94	5.51	108	100	70.0-133			7.50	20
(S) a,a,a-Trifluorotoluene(FID)				101	101	77.0-120				

L909393-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L909393-21 05/20/17 22:42 • (MS) R3219856-4 05/20/17 19:46 • (MSD) R3219856-5 05/20/17 20:08

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	6.39	181	261	270	25.4	28.2	49.5	10.0-146			3.35	30
(S) a,a,a-Trifluorotoluene(FID)					100	99.4		77.0-120				

Method Blank (MB)

(MB) R3219804-1 05/20/17 16:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	85.5			18.0-148

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3219804-2 05/20/17 16:39 • (LCSD) R3219804-3 05/20/17 16:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	30.0	26.5	25.7	88.3	85.8	50.0-150			2.86	20
Residual Range Organics (RRO)	30.0	20.3	20.0	67.5	66.8	50.0-150			1.14	20
(S) o-Terphenyl				76.0	74.0	18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
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	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.
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¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ GI⁸ AI⁹ Sc

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

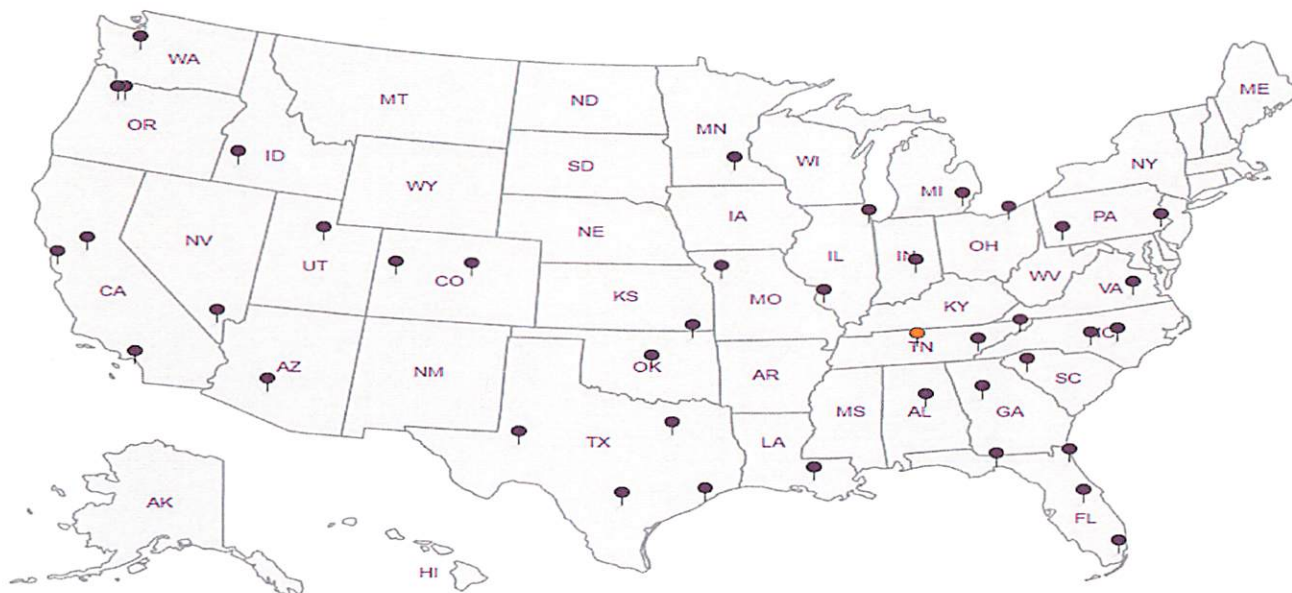
Third Party & Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA - ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



PBS Engineering & Env.- POR

Sample Delivery Group: L910875
Samples Received: 05/20/2017
Project Number: 22589.000
Description: PPS UST Decommissioning

Report To: Scott Braunsten
4412 SW Corbett Ave
Portland, OR 97239

Entire Report Reviewed By:

Brian Ford

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

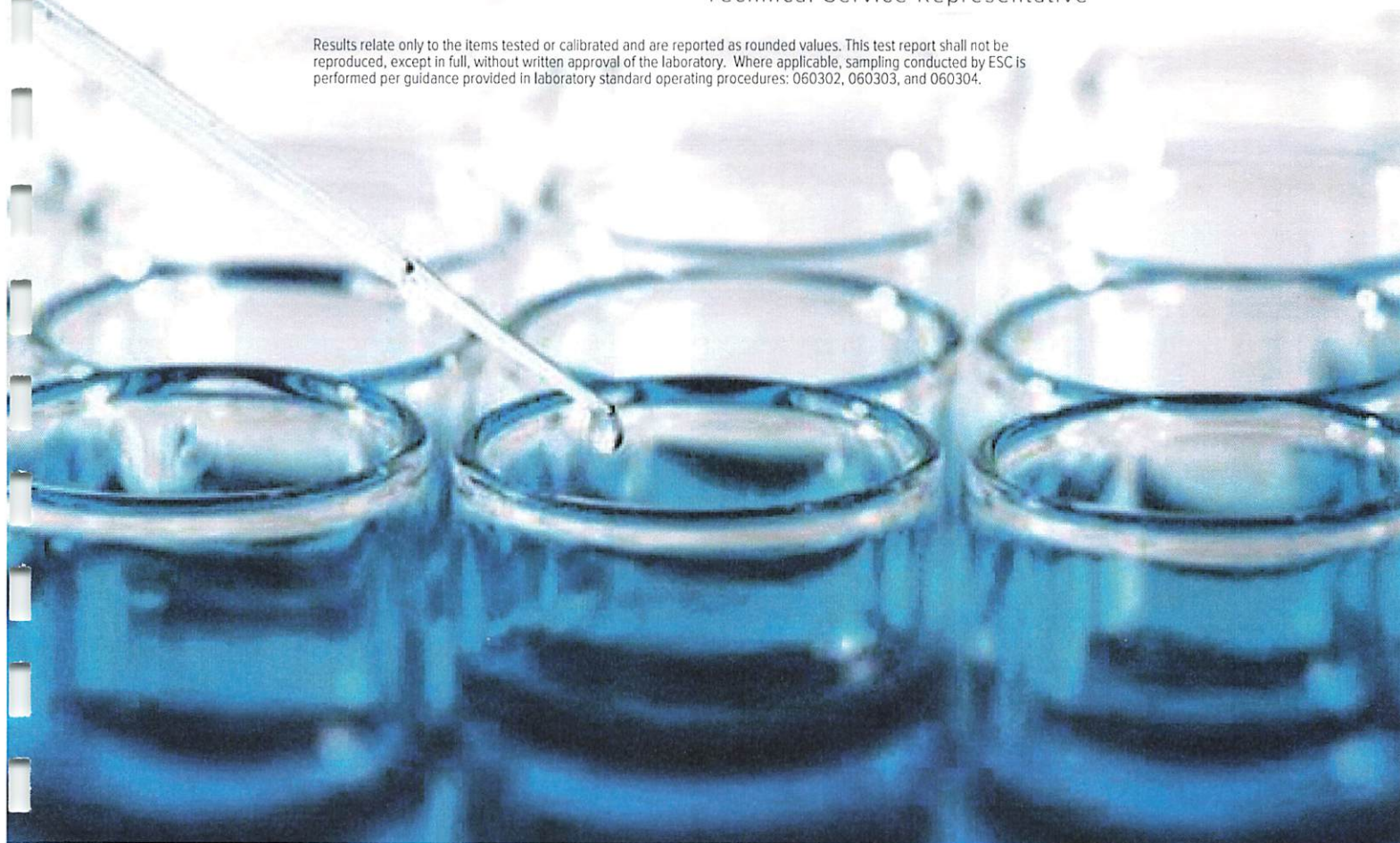


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¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

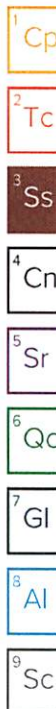
⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



TANK1N-16 L910875-01 Solid			Collected by Dana Domenighini	Collected date/time 05/19/17 08:30	Received date/time 05/20/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG982036	1.23	05/19/17 08:30	05/22/17 17:12	DWR
TANK1S-15 L910875-02 Solid			Collected by Dana Domenighini	Collected date/time 05/19/17 09:25	Received date/time 05/20/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG982036	1.05	05/19/17 09:25	05/23/17 13:52	JAH
TANK1E-15 L910875-03 Solid			Collected by Dana Domenighini	Collected date/time 05/19/17 11:00	Received date/time 05/20/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG982036	1	05/19/17 11:00	05/23/17 14:13	JAH
TANK2N-13 L910875-04 Solid			Collected by Dana Domenighini	Collected date/time 05/19/17 10:20	Received date/time 05/20/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981802	1	05/22/17 07:23	05/23/17 07:05	ACM
TANK2S-13 L910875-05 Solid			Collected by Dana Domenighini	Collected date/time 05/19/17 10:00	Received date/time 05/20/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981802	1	05/22/17 07:23	05/23/17 07:57	ACM
TANK2W-13 L910875-06 Solid			Collected by Dana Domenighini	Collected date/time 05/19/17 09:05	Received date/time 05/20/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981802	1	05/22/17 07:23	05/23/17 07:22	ACM
PIPE30-5 L910875-07 Solid			Collected by Dana Domenighini	Collected date/time 05/19/17 09:20	Received date/time 05/20/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG981745	1	05/20/17 14:03	05/20/17 14:11	KDW
Volatile Organic Compounds (GC) by Method NWTPHGX	WG982036	1.15	05/19/17 09:20	05/23/17 14:34	JAH
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG981802	1	05/22/17 07:23	05/23/17 07:40	ACM





All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.3		1	05/20/2017 14:11	WG981745

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		5.39	1.23	05/22/2017 17:12	WG982036
(S) <i>o,o,o</i> -Trifluorotoluene(FID)	96.7		77.0-120		05/22/2017 17:12	WG982036

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

TANK1S-15

Collected date/time: 05/19/17 09:25

SAMPLE RESULTS - 02

L910875

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	05/20/2017 14:11	WG981745

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		4.70	1.05	05/23/2017 13:52	WG982036
(S) <i>o,o</i> -Trifluorotoluene(FID)	103		77.0-120		05/23/2017 13:52	WG982036

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

TANK1E-15

SAMPLE RESULTS - 03

ONE LAB. NATIONWIDE.



Collected date/time: 05/19/17 11:00

L910875

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.5		1	05/20/2017 14:11	WG981745

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		4.63	1	05/23/2017 14:13	WG982036
(S) <i>o,o</i> -Trifluorotoluene(FID)	102		77.0-120		05/23/2017 14:13	WG982036

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

TANK2N-13

SAMPLE RESULTS - 04

ONE LAB. NATIONWIDE.



Collected date/time: 05/19/17 10:20

L910875

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.5		1	05/20/2017 14:11	WG981745

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.42	1	05/23/2017 07:05	WG981802
Residual Range Organics (RRO)	ND		11.0	1	05/23/2017 07:05	WG981802
(S) o-Terphenyl	108		18.0-148		05/23/2017 07:05	WG981802

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/19/17 10:00

L910875

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.2		1	05/20/2017 14:11	WG981745

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		4.38	1	05/23/2017 07:57	WG981802
Residual Range Organics (RRO)	ND		11.0	1	05/23/2017 07:57	WG981802
(S) o-Terphenyl	93.5		18.0-148		05/23/2017 07:57	WG981802

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

TANK2W-13

SAMPLE RESULTS - 06

ONE LAB. NATIONWIDE.



Collected date/time: 05/19/17 09:05

L910875

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.0		1	05/20/2017 14:11	WG981745

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	8.47		4.65	1	05/23/2017 07:22	WG981802
Residual Range Organics (RRO)	ND		11.6	1	05/23/2017 07:22	WG981802
(S) o-Terphenyl	93.7		18.0-148		05/23/2017 07:22	WG981802

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 05/19/17 09:20

L910875

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.3		1	05/20/2017 14:11	WG981745

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	ND		5.88	1.15	05/23/2017 14:34	WG982036
(S) <i>o,o,o</i> -Trifluorotoluene(FID)	103		77.0-120		05/23/2017 14:34	WG982036

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	ND		5.11	1	05/23/2017 07:40	WG981802
Residual Range Organics (RRO)	ND		12.8	1	05/23/2017 07:40	WG981802
(S) <i>o</i> -Terphenyl	101		18.0-148		05/23/2017 07:40	WG981802

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3219734-1 05/20/17 14:11				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000300			

L910875-02 Original Sample (OS) • Duplicate (DUP)

(OS) L910875-02 05/20/17 14:11 • (DUP) R3219734-3 05/20/17 14:11						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	89.4	89.2	1	0.255		5

Laboratory Control Sample (LCS)

(LCS) R3219734-2 05/20/17 14:11					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3220132-5 05/22/17 13:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	0.0508	J	0.0339	4.00
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3220132-1 05/22/17 11:16 • (LCSD) R3220132-2 05/22/17 11:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.50	5.83	5.76	106	105	70.0-133			1.16	20
(S) a,a,a-Trifluorotoluene(FID)				105	105	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3220129-1 05/22/17 19:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	102			18.0-148

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3220129-2 05/22/17 19:26 • (LCSD) R3220129-3 05/22/17 19:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	30.0	24.0	21.5	80.0	71.7	50.0-150			10.8	20
Residual Range Organics (RRO)	30.0	19.1	16.9	63.8	56.3	50.0-150			12.5	20
(S) o-Terphenyl				80.6	69.6	18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
-----------	-------------

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey—NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio—VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	A130792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

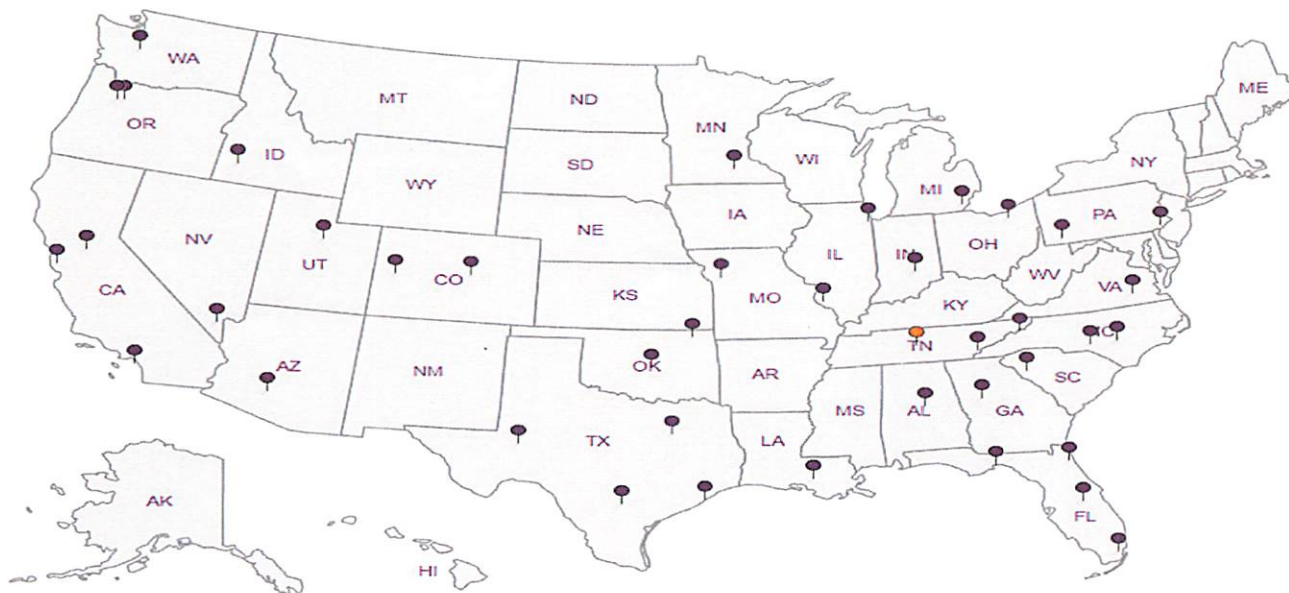
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA—Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Condition:
NCF / OK

NCF / AN

APPENDIX E

DEQ Forms



State of Oregon
Department of
Environmental
Quality

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK PROGRAM

Initial (Twenty Day) Report Form for UST Cleanup Projects

This report is due twenty (20) days from the date of the release.

DEQ USTC File No. 26-17-0573
DEQ Facility ID No. 7666
Site Name: Portland Public Schools
Site Address: 501 N Dixon Street, Portland, OR 97227

INITIAL CLEANUP INFORMATION

(1) Type of contamination (check ☒ all that apply):

☐ Gasoline ☒ Diesel ☐ Waste Oil ☐ Heating Oil
☐ Other (specify) _____

(2) Estimate quantity of release (based on information known to date – • select only one):

☒ <100 gal. ☐ 100-499 gal. ☐ 500-999 gal. ☐ 1,000-5,000 gal. ☐ >5,000 gal.

SITE INFORMATION (check ☒ yes or ☒ no)

(3) ☐ Y ☒ N Did any water enter the excavation? If yes, please describe and identify the depth to groundwater in feet below ground surface: _____

(4) ☐ Y ☒ N Was a sheen or odor observed on any water in the excavation?

Note: If groundwater is encountered, soil samples from the soil/water interface must be collected and analyzed for BTEX and by the appropriate TPH method.

At sites where diesel or other non-gasoline products have been released, the water may also have to be screened or tested for polynuclear aromatic hydrocarbons (PAHs). Please refer to OAR 340-122-0218.

(5) ☐ Y ☒ N Was water pumped from the excavation?

☐ Y ☐ N If yes, did groundwater recharge within 24 hours after pumping?

Please describe the pumping procedure and disposal option selected for the purged excavation water:

(6) ☐ Y ☒ N Were any water samples collected from the excavation? If yes, please describe: _____

(7) ☒ Y ☐ N Have any soil and/or water sample results been received at this time?

If so, please attach any lab reports.

IF GROUNDWATER HAS BEEN ENCOUNTERED, PLEASE ANSWER QUESTIONS #8-13, BELOW.

IF NO WATER HAS BEEN ENCOUNTERED, PLEASE SKIP TO QUESTION #14

(8) What are the known uses of groundwater within a 500-foot radius of the release site (check ☒ all that apply)?

☐ non-use ☐ industrial ☐ agricultural ☐ drinking supply

(9) If groundwater in this area is being used as a drinking water supply, please check ☒ the type and size of population served by the supply:

☐ Community (community well used for drinking water year round – • select only one)

size: ☐ <1,000 people ☐ 1,000 - 5,000 people ☐ >5,000 people

☐ Intermittent use (public water used for drinking water only on a part-time basis – • select only one)

size: ☐ <50 people ☐ 50 - 300 people ☐ > 300 people

☐ Private wells (individual private well or wells used for drinking water – • select only one)

size: ☐ <10 people ☐ 10 - 25 people ☐ >25 people

(10) ☐ Y ☐ N Is there any evidence this water supply has been or is likely to be impacted from the petroleum product release? If yes, estimate how difficult it would be to replace the existing supply:

☐ bottled water is the only alternative

☐ on-site water treatment; bulk water delivery; new wells are available

☐ able to connect to existing water supply

☐ do not know what alternatives would be available

(11) ☐ Y ☐ N Are/were vapors present in on-site or nearby buildings? If yes:

A. Are you monitoring and/or mitigating any potential fire and safety hazards posed by vapors and free product? Explain: _____

B. Estimate the number of people potentially affected by vapors – • select only one:

☐ 1-2 people ☐ 3-10 people ☐ >10 people

(12) ☐ Y ☐ N Are vapors or is petroleum contamination present in the utility corridors?

If yes, please explain: _____

(13) ☐ Y ☐ N Are natural areas located within 1/4 mile of the site? If so, please describe types (parks, rivers, wetlands, sensitive habitats, etc.) and proximity: _____

(14) ☒ Y ☐ N If groundwater was not encountered in the excavation, do you believe that this cleanup project can be conducted under the requirements for an UST Cleanup Matrix site? If yes, then refer to OAR 340-122-0305 through 0360.

AREA/SITE CONDITIONS:

- (15) Mean annual rainfall: ☐ <20 inches ☒ 20-45 inches ☐ >45 inches
- (16) Soil type(s) of the naturally occurring soils, not the backfill around the tank – • select only one:
- ☐ clays, compact tills, shales, and unfractured metamorphic and igneous rocks
- ☐ sandy loams, loamy sands, silty clays, clay loams, moderately permeable limestone, dolomite, sandstones, moderately fractured igneous and metamorphic rock
- ☒ fine and silty sands, sands and gravels, highly fractured igneous and metamorphic rock, permeable basalts and lavas, karst limestones and dolomites

SOIL MANAGEMENT

- (17) If soil sample results have been received:
☐ Y ☒ N Will the level of contamination detected require removal of contaminated soil for treatment or disposal?
- (18) All contaminated soil temporarily stockpiled on-site prior to treatment or disposal must be contained within a bermed area, kept covered, and the entire area secured to prevent unauthorized access by the public. If you haven't done this, please explain why:

Note: It is a violation to stockpile petroleum contaminated soil (PCS) on-site for greater than 30 days without a DEQ Solid Waste Letter Authorization (SWLA) Permit.

- (19) If contaminated soil is currently stockpiled on-site, please indicate when disposal will occur or when treatment will begin: _____
- (20) Estimated volume of contaminated soil (specify tons or cubic yards): _____
- (21) Intended disposition of soils (please • select only one):
- ☐ On-site/off-site treatment, Solid Waste Letter Authorization Permit Application attached.
- ☐ Thermal treatment off-site at an authorized facility.
 Facility name: _____
- ☐ Landfill disposal.
 Name of Landfill: _____

Note: Please attach additional information as necessary to explain any unusual circumstances associated with this project.

This initial report is intended to provide the Department with the basic initial information about activities associated with the release. Future reports should provide a more detailed and complete picture of the cleanup project.

Please be aware that a DEQ permit/authorization is required for the following activities:

- 1) Soil aeration, bioremediation (on-site or off-site), or on-site thermal treatment.
- 2) Water discharges to a stream/storm drain from the excavation or treatment tank.

If these activities will be included in your cleanup project, contact the regional DEQ office for the appropriate application forms, information on permit fees and guidance documents.

THIS REPORT WAS PREPARED BY:

Individual: Dana Domenighini Date: 6/5/17
Company: PBS Engineering & Environmental Phone: 503-417-7681
Address: 4412 SW Corbett Avenue

City: Portland State OR Zip 97239

1. Please return this form to the regional office in which the site is located.
If you have questions, call the contact person in your regional office.
2. For all tanks, except heating oil tanks, you must submit an *UST Decommissioning Checklist and Site Assessment Report* to the appropriate regional office within 30 days of the UST decommissioning.
Failure to do so can result in delays to your project and may result in continued billing for the annual tank permit fees.
3. Addresses and phone numbers for the regional offices can be found in the *UST Cleanup Manual* or viewed and downloaded from this DEQ Webpage:
<http://www.deq.state.or.us/about/locations.htm>
4. Copies of the *UST Cleanup Manual* and other UST program forms and checklists can be viewed and downloaded from DEQ's Website:
<http://www.deq.state.or.us/lq/tanks/ust/index.htm>
or in the Portland area by calling Steve Paiko at 503-229-6652

or outside the Portland area leaving a message on the UST Help Line (toll-free in Oregon) at 1-800-742-7878

KEEP A COPY OF THIS REPORT FOR YOUR FACILITY RECORDS



State of Oregon
Department of
Environmental
Quality

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY UNDERGROUND STORAGE TANK PROGRAM

UNDERGROUND STORAGE TANK DECOMMISSIONING CHECKLIST AND SITE ASSESSMENT REPORT

A. FACILITY INFORMATION:

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

DEQ FACILITY NUMBER: 7666
FACILITY NAME: Portland Public Schools
FACILITY ADDRESS: 501 N Dixon St, Portland, OR 97227
PERMITTEE PHONE: 503-916-2000 DATE: 6/2/17

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 #: 10528 Construction Contractors Board License #: 78140
Name: Pacific Northern Enviro. Corp dba: CCS
Telephone: 360-423-2245
DEQ Decommissioning Supervisor's License #: 13090
Name: Scott Gilfillan
Telephone: 360-957-2018
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: 3/28/17 (30 days before work starts).

Work Start Telephone Notice - Number issued by DEQ: 5/18/17 (3 working days before work starts).

DEQ Person Notified: Eric Clough

Date Work Started: 5/17/17 Date Work Completed: 5/31/17

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: 5/23/17 By: Scott Braunsten

DEQ Person Notified: on-line

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

DEQ Water Discharge Permit #: N/A Date: _____

Water Disposed to (Location): _____

DEQ Solid Waste Disposal Permit #: _____ Date: _____

Soil Disposal or Treatment Location: _____

E. TANK INFORMATION:

TANK ID #	DEQ-UST PERMIT #	TANK SIZE IN GALLONS	PRODUCT: GASOLINE, DIESEL, USED OIL, OTHER?		CLOSURE OR CHANGE-IN- SERVICE?			TANK TO BE REPLACED?	
			PRESENT	NEW	TANK REMOVAL	CLOSURE IN PLACE♦	CHANGE IN SERVICE♦	YES	NO
1	BCHAB	2,500	Diesel		☐	☒	☐	☐	☒
2	BCHAC	12,000	Gasoline		☐	☒	☐	☐	☒
					☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐

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

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

F. DISPOSAL INFORMATION:

TANK ID #	TANK AND PIPING DISPOSAL METHOD				DISPOSAL LOCATION OF TANK CONTENTS	
	SCRAP	LAND-FILL	OTHER	IDENTIFY LOCATION & PROPERTY OWNER	LIQUIDS	SLUDGES
1	☐	☐	☐	in place	ORRCO-Portland	
2	☐	☐	☐	in place	ORRCO-Portland	
	☐	☐	☐			
	☐	☐	☐			
	☐	☐	☐			

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

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

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

G. CONTAMINATION INFORMATION:

TANK ID #	GROUND WATER IN PIT ?	PRODUCT ODOR IN SOIL ?	PRODUCT STAINS IN SOIL ?	NUMBER OF SAMPLES	LABORATORY (NAME, CITY, STATE, PHONE)
1	☐	☐	☐	3	ESC Lab Sciences, Mt. Juliet, TN
2	☐	☐	☐	3	ESC Lab Sciences, Mt. Juliet, TN
	☐	☐	☐		
	☐	☐	☐		
	☐	☐	☐		

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 and a Level 2 or Level 3 soil matrix cleanup standard is applied to the site, attach a copy of the soil matrix analysis including methods of determining soil type, depth to groundwater, and sensitivity of uppermost aquifer.

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

See attached from PBS Engineering and Environmental

I. SAFETY EQUIPMENT ON JOB SITE:

Fire Extinguisher:	Type/Size: <u>ABC 20# 2ea</u>	Recharge Date: <u>1/1/18</u>
Combustible Gas Detector:	Model: <u>Diager xcum 2500</u>	Calibration Date: <u>7/20/17</u>
Oxygen Analyzer:	Model: <u>Diager xcum 2500</u>	Calibration Date: <u>7/20/17</u>

J. DECOMMISSIONING:

All Tanks: N/A = Not Applicable (Check (√) Appropriate Box)	YES	NO	UNKNOWN	N/A
1. All electrical equipment grounded and explosion proof?	☒	☐	☐	☐
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? limited - in place	☒	☐	☐	☐
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? limited - in place	☐	☐	☐	☒
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: <u>5/19/17</u> DEQ Staff: <u>Eric Kelley</u>	☒	☐	☐	☐
17. Contamination concerns fully resolved?	☒	☐	☐	☐
18. Fill Material? Type: <u>CDF - Cal Portland</u>	☒	☐	☐	☐

I. 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: <u>purge w/ exp. proof eductor</u> Meter reading: <u>20.8% oxy 0% LEL</u>	☒	☐	☐	☐
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: <u>5/23/17 16:30</u>	☒	☐	☐	☐
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: JEFF BRANDT
(Please Print)

Permittee or Tank Owner: [Signature] Date: 6/6/17
(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: SCOTT G. RILLAN
(Please Print)

Licensed Supervisor: [Signature] Date: 6/02/17
(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: TODD PARTRIDGE
Licensed Service Provider (Please Print)

Executive Officer: [Signature] Date: 6/02/17
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:

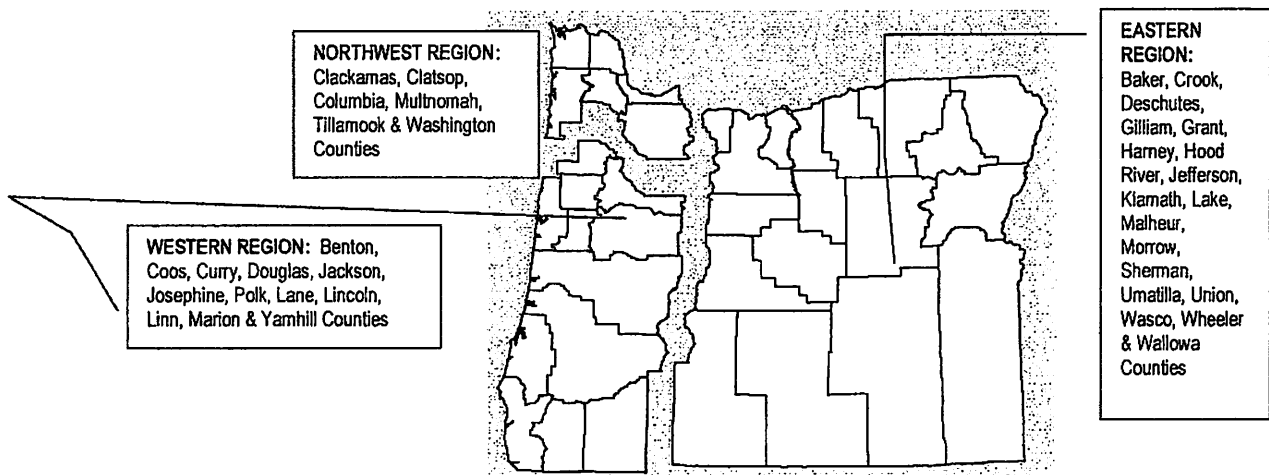
If you have any questions about this decommissioning checklist and site assessment report, please phone your DEQ Regional Office. You can also phone the UST Program's toll-free number, 1-800-742-7878. This is a message answering machine for calls made within Oregon. Underground Storage Tank Program staff will return your calls within 24 hours. You can also send an e-mail to tanks.info@deq.state.or.us. 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.state.or.us or
4. Downloading from the UST home page at:

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



EASTERN REGION / BEND
475 NE BELLEVUE, SUITE 110
BEND, OR 97701
Phone: 541-388-6146
Fax: 541-388-8283

NORTHWEST REGION
700 NE MULTNOMAH ST.
PORTLAND, OR 97232
Phone: 503-229-5263
Fax: 503-229-6945

WESTERN REGION / COOS BAY
381 N SECOND STREET
COOS BAY 97420
Phone: 541-269-2721
Fax: 541-269-7984

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