

## Oregon Dept. of Env. Quality - ODEQ

Sample Delivery Group: L856162  
Samples Received: 08/26/2016  
Project Number: 1608353  
Description: ORRCO

Report To: Sarah Rockwell  
3150 NW 229th St., Suite 150  
Hillsboro, OR 97124










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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# SAMPLE SUMMARY



## APES-WW L856162-01 GW

Collected by  
Collected date/time  
Received date/time

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX	WG903675	2000	08/30/16 23:34	09/01/16 22:41	DMG
Volatile Organic Compounds (GC) by Method NWTPHGX	WG902812	100	09/03/16 01:17	09/03/16 01:17	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG903008	500	08/28/16 20:01	08/28/16 20:01	JHH
Wet Chemistry by Method D93/1010A	WG902885	1	08/27/16 17:00	08/27/16 17:00	KK

1 Cp

2 Tc

3 Ss

4 Cn

## PRETREATED-WW L856162-02 GW

Collected by  
Collected date/time  
Received date/time

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX	WG903675	1000	08/30/16 23:34	09/01/16 22:58	DMG
Volatile Organic Compounds (GC) by Method NWTPHGX	WG902812	100	09/03/16 01:38	09/03/16 01:38	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG903008	500	08/28/16 20:21	08/28/16 20:21	JHH
Wet Chemistry by Method D93/1010A	WG902885	1	08/27/16 17:00	08/27/16 17:00	KK

5 Sr

6 Qc

7 Gl

## PRODUCT L856162-03 Solid

Collected by  
Collected date/time  
Received date/time

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX	WG904214	5000	09/02/16 05:44	09/03/16 15:23	ACM
Volatile Organic Compounds (GC) by Method NWTPHGX	WG904163	49500	08/31/16 17:29	09/02/16 05:44	LRL

8 Al

9 Sc



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

### Sample Handling and Receiving

Analysis was performed from an improper container for the following samples.

ESC Sample ID	Project Sample ID	Method
<a href="#">L856162-01</a>	<a href="#">APES-WW</a>	D93/1010A
<a href="#">L856162-02</a>	<a href="#">PRETREATED-WW</a>	D93/1010A

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Flashpoint	155		1	08/27/2016 17:00	<a href="#">WG902885</a>

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	406000		3160	10000	100	09/03/2016 01:17	<a href="#">WG902812</a>
(S) a,a,a-Trifluorotoluene(FID) 104				62.0-128		09/03/2016 01:17	<a href="#">WG902812</a>

3 Ss

4 Cn

5 Sr

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	6800		166	500	500	08/28/2016 20:01	<a href="#">WG903008</a>
(S) Toluene-d8	106			90.0-115		08/28/2016 20:01	<a href="#">WG903008</a>
(S) Dibromofluoromethane	106			79.0-121		08/28/2016 20:01	<a href="#">WG903008</a>
(S) a,a,a-Trifluorotoluene	100			90.4-116		08/28/2016 20:01	<a href="#">WG903008</a>
(S) 4-Bromofluorobenzene	93.7			80.1-120		08/28/2016 20:01	<a href="#">WG903008</a>

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	5020000		66000	200000	2000	09/01/2016 22:41	<a href="#">WG903675</a>
Residual Range Organics (RRO)	U		165000	500000	2000	09/01/2016 22:41	<a href="#">WG903675</a>
(S) o-Terphenyl	0.000	<u>J7</u>		50.0-150		09/01/2016 22:41	<a href="#">WG903675</a>



Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Flashpoint	141		1	08/27/2016 17:00	<a href="#">WG902885</a>

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	405000		3160	10000	100	09/03/2016 01:38	<a href="#">WG902812</a>
(S) a,a,a-Trifluorotoluene(FID) 104				62.0-128		09/03/2016 01:38	<a href="#">WG902812</a>

3 Ss

4 Cn

5 Sr

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	5850		166	500	500	08/28/2016 20:21	<a href="#">WG903008</a>
(S) Toluene-d8	107			90.0-115		08/28/2016 20:21	<a href="#">WG903008</a>
(S) Dibromofluoromethane	105			79.0-121		08/28/2016 20:21	<a href="#">WG903008</a>
(S) a,a,a-Trifluorotoluene	101			90.4-116		08/28/2016 20:21	<a href="#">WG903008</a>
(S) 4-Bromofluorobenzene	92.2			80.1-120		08/28/2016 20:21	<a href="#">WG903008</a>

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	4350000		33000	100000	1000	09/01/2016 22:58	<a href="#">WG903675</a>
Residual Range Organics (RRO)	U		82500	250000	1000	09/01/2016 22:58	<a href="#">WG903675</a>
(S) o-Terphenyl	0.000	<u>J7</u>		50.0-150		09/01/2016 22:58	<a href="#">WG903675</a>



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	81100		1680	4950	49500	09/02/2016 05:44	<a href="#">WG904163</a>
(S) a,a,a-Trifluorotoluene(FID)	99.8			59.0-128		09/02/2016 05:44	<a href="#">WG904163</a>

1 Cp

2 Tc

3 Ss

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	361000		6600	20000	5000	09/03/2016 15:23	<a href="#">WG904214</a>
Residual Range Organics (RRO)	78500		16500	50000	5000	09/03/2016 15:23	<a href="#">WG904214</a>
(S) o-Terphenyl	0.000	<u>J7</u>		50.0-150		09/03/2016 15:23	<a href="#">WG904214</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L856162-01 Original Sample (OS) • Duplicate (DUP)

(OS) L856162-01 08/27/16 17:00 • (DUP) WG902885-3 08/27/16 17:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	deg F	deg F		%		%
Flashpoint	155	157	1	1.14		20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L856162-02 Original Sample (OS) • Duplicate (DUP)

(OS) L856162-02 08/27/16 17:00 • (DUP) WG902885-4 08/27/16 17:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	deg F	deg F		%		%
Flashpoint	141	141	1	0.910		20

<sup>7</sup> Gl

<sup>8</sup> Al

L856209-01 Original Sample (OS) • Duplicate (DUP)

(OS) L856209-01 08/27/16 17:00 • (DUP) WG902885-5 08/27/16 17:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	deg F	deg F		%		%
Flashpoint	98.6	97.9	1	0.733		20

<sup>9</sup> Sc

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

(LCS) WG902885-1 08/27/16 17:00 • (LCSD) WG902885-2 08/27/16 17:00

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	deg F	deg F	deg F	%	%	%			%	%
Flashpoint	82.0	83.2	83.4	101	102	96.0-104			0.240	7





Method Blank (MB)

(MB) R3160834-3 08/27/16 16:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPHG C6 - C12	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	99.3			62.0-128

1 Cp

2 Tc

3 Ss

4 Cn

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

(LCS) R3160834-1 08/27/16 15:08 • (LCSD) R3160834-2 08/27/16 15:31

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPHG C6 - C12	5500	5260	5410	95.7	98.3	66.0-123			2.70	20
(S) a,a,a-Trifluorotoluene(FID)				107	107	62.0-128				

5 Sr

6 Qc

L856020-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L856020-01 08/27/16 23:50 • (MS) R3160834-4 08/27/16 21:36 • (MSD) R3160834-5 08/27/16 21:59

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPHG C6 - C12	5500	400	3620	3890	58.6	63.5	1	47.5-136			7.11	20
(S) a,a,a-Trifluorotoluene(FID)					99.7	98.7		62.0-128				

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3160907-3 08/31/16 11:45

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPHG C6 - C12	U		0.0339	0.100
(S) a,a,a-Trifluorotoluene(FID)				59.0-128

1 Cp

2 Tc

3 Ss

4 Cn

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

(LCS) R3160907-1 08/31/16 10:42 • (LCSD) R3160907-2 08/31/16 11:03

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPHG C6 - C12	5.50	5.91	5.96	107	108	62.2-127			0.900	20
(S) a,a,a-Trifluorotoluene(FID)				107	107	59.0-128				

5 Sr

6 Qc

L856161-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L856161-01 08/31/16 19:04 • (MS) R3160907-4 08/31/16 18:01 • (MSD) R3160907-5 08/31/16 18:22

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPHG C6 - C12	7.52	32.2	551	566	72.6	74.8	95	20.5-134			2.75	23.8
(S) a,a,a-Trifluorotoluene(FID)					107	104		59.0-128				

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3159774-3 08/28/16 12:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.331	1.00
(S) Toluene-d8	105			90.0-115
(S) Dibromofluoromethane	103			79.0-121
(S) a,a,a-Trifluorotoluene	103			90.4-116
(S) 4-Bromofluorobenzene	97.8			80.1-120

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

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

(LCS) R3159774-1 08/28/16 10:47 • (LCSD) R3159774-2 08/28/16 11:07

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Benzene	25.0	22.5	23.0	89.8	92.1	73.0-122			2.56	20
(S) Toluene-d8				104	103	90.0-115				
(S) Dibromofluoromethane				102	102	79.0-121				
(S) a,a,a-Trifluorotoluene				101	101	90.4-116				
(S) 4-Bromofluorobenzene				92.8	93.3	80.1-120				

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L856169-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L856169-02 08/28/16 15:36 • (MS) R3159774-4 08/28/16 14:36 • (MSD) R3159774-5 08/28/16 14:56

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Benzene	25.0	U	25.7	26.5	103	106	1	58.6-133			3.08	20
(S) Toluene-d8					107	108		90.0-115				
(S) Dibromofluoromethane					111	114		79.0-121				
(S) a,a,a-Trifluorotoluene					97.1	97.0		90.4-116				
(S) 4-Bromofluorobenzene					89.6	90.5		80.1-120				



Method Blank (MB)

(MB) R3160880-1 08/31/16 17:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Diesel Range Organics (DRO)	U		33.3	100
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	71.4			50.0-150

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

(LCS) R3160880-2 08/31/16 17:38 • (LCSD) R3160880-3 08/31/16 17:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Diesel Range Organics (DRO)	750	723	746	96.4	99.4	50.0-150			3.13	20
Residual Range Organics (RRO)	750	643	670	85.7	89.3	50.0-150			4.07	20
<i>(S) o-Terphenyl</i>				77.5	75.4	50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3161463-1 09/03/16 14:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Diesel Range Organics (DRO)	U		333	1000
Residual Range Organics (RRO)	U		833	2500
(S) o-Terphenyl	161	J1		50.0-150

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

(LCS) R3161463-2 09/03/16 14:51 • (LCSD) R3161463-3 09/03/16 15:07

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Diesel Range Organics (DRO)	5000	5720	6060	114	121	50.0-150			5.71	20
Residual Range Organics (RRO)	5000	4980	5370	99.7	107	50.0-150			7.44	20
(S) o-Terphenyl				120	119	50.0-150				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
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
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> 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 <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	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 <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	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		

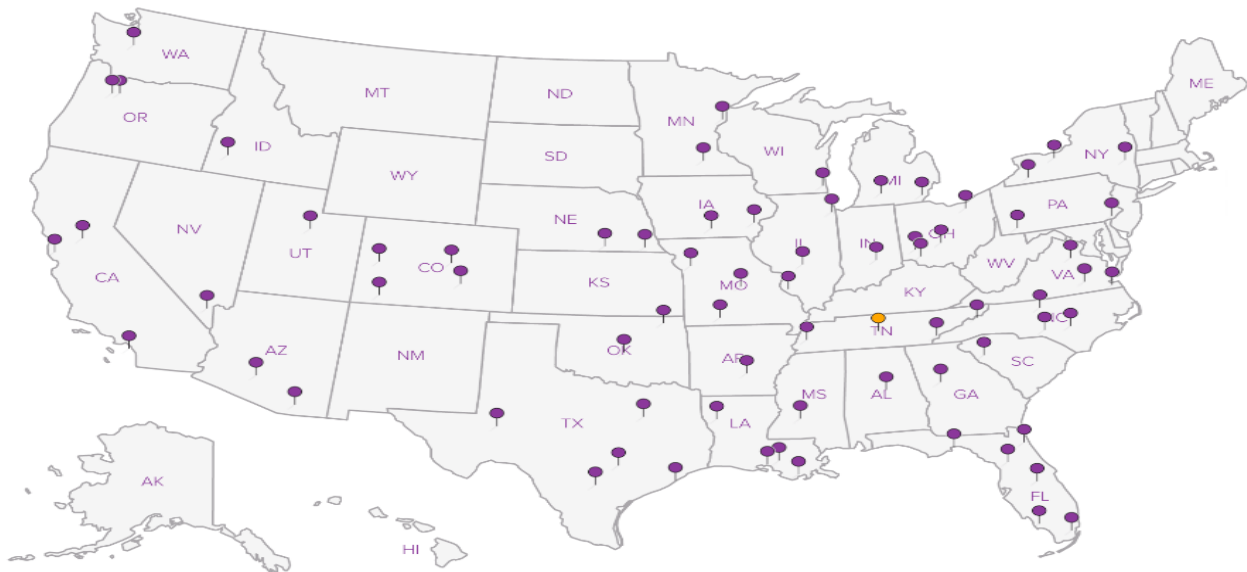
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> 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.**



State of Oregon Chain of Custody

<b>Agency, Authorized Purchaser or Agent:</b> Oregon Department of Environmental Quality Laboratory and Environmental Assessment Program	<b>Contract Laboratory Name:</b> Environmental Science Corporation (ESC)	<b>Lab Selection Criteria:</b> <input type="checkbox"/> Proximity (if TAT < 48 hrs) <input type="checkbox"/> Prior work on same project <input type="checkbox"/> Cost (for anticipated analyses) <input checked="" type="checkbox"/> Other labs disqualified or <u>unable</u> to perform requested services <input type="checkbox"/> Emergency work	<b>Turn Around Time:</b> <input type="checkbox"/> 10 days (std.) <input type="checkbox"/> 5 days <input type="checkbox"/> 72 hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 24 hours <input checked="" type="checkbox"/> Other
<b>Send Lab Report To:</b> Sarah Rockwell Address: Oregon DEQ-LEAP 3150 NW 229 <sup>th</sup> , Suite 150 Hillsboro, OR 97124 Tel. #: 503-693-5775  E-mail: Rockwell.Sarah@deq.state.or.us	<b>Lab Batch #:</b>  <b>Invoice To:</b> DEQ Business Office Address: 811 SW 6 <sup>th</sup> Ave. Portland, OR 97204 Tel. #: 503-229-5269	Standard Per State Contract	

Project Name: Project #:				Sample Preservative										
Sampler Name:				Requested Analyses										
Sample ID#	Collection Date/Time	Matrix	Number of Containers											Comments
		W	1											1856162
See Attached Sheets		W	1											
		W	1											
		W	1											
		W	1											
		W	1											
		W	1											
		W	1											
		W	1											
		W	1											
		W	1											
		W	1											

Invoice: Date : 11Oct13 Shipping : 0.00  
 Customer : Weight : 10 LBS Special : 0.00  
 Phone : (615)758-5858 COD : Handling : 0.00  
 Sat Del : N DV : 0.00 Total : 0.00  
  
 Svcs: STANDARD OVERNIGHT  
 TRCK: 5704 6062 9469

Notes: Promium EDD needed.

Relinquished By: Melanie Miller	Agency/Agent: ODEQ-LEAP	Received By: <i>M. Lane</i>	Agency/Agent:
Signature: <i>[Signature]</i>	Time & Date: <i>8/25/16 1210</i>	Signature:	Time & Date: <i>8/26/16 0905</i>
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

THIS PURCHASE IS SUBMITTED PURSUANT TO STATE OF OREGON SOLICITATION #102-1098-07 AND PRICE AGREEMENT # [ 8903 ]. THE PRICE AGREEMENT INCLUDING CONTRACT TERMS AND CONDITIONS AND SPECIAL CONTRACT TERMS AND CONDITIONS (T'S & C'S) CONTAINED IN THE PRICE AGREEMENT ARE HEREBY INCORPORATED BY REFERENCE AND SHALL APPLY TO THIS PURCHASE AND SHALL TAKE PRECEDENCE OVER ALL OTHER CONFLICTING T'S AND C'S, EXPRESS OR IMPLIED.

14 samples



**SUBCONTRACT ORDER**

DEQ Laboratory and Environmental Assessment Div.

1608353

**SENDING LABORATORY:**

DEQ Laboratory and Environmental Assessment Div.  
3150 NW 229th Suite 150  
Hillsboro, OR 97124-6536  
Phone: 503.693.5700  
Fax: 503.693.4999  
Project Manager: Sarah Rockwell

**RECEIVING LABORATORY:**

ESC Lab Sciences  
12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
Phone : (800) 767-5858  
Fax: (615) 758-5859

Analysis	Due	Expires	Laboratory ID	Comments
<b>Sample ID: 1608353-01</b>	<b>Water::L</b>	<b>Sampled:24-Aug-16 13:45</b>		<b>1856162-01</b>
Subcontract - Volatiles by GCM25-Sep-16 17:00		07-Sep-16 13:45		Benzene only
Subcontract - Ignitability	25-Sep-16 17:00	21-Sep-16 13:45		
Subcontract - Gasoline Range C25-Sep-16 17:00		07-Sep-16 13:45		
Subcontract - Diesel Range Org25-Sep-16 17:00		31-Aug-16 13:45		
<i>Containers Supplied:</i>				
AG, 1000ml; HCl (A)	Poly 500mL (B)	VOA Vial, 40mL; HCL (C VOA Vial, 40mL; HCL (D VOA Vial, 40mL; HCL (E		
VOA Vial, 40mL; HCL (F				

<b>Sample ID: 1608353-02</b>	<b>Water::L</b>	<b>Sampled:24-Aug-16 15:30</b>		
Subcontract - Volatiles by GCM25-Sep-16 17:00		07-Sep-16 15:30		Benzene only
Subcontract - Ignitability	25-Sep-16 17:00	21-Sep-16 15:30		
Subcontract - Gasoline Range C25-Sep-16 17:00		07-Sep-16 15:30		
Subcontract - Diesel Range Org25-Sep-16 17:00		31-Aug-16 15:30		
<i>Containers Supplied:</i>				
AG, 1000ml; HCl (A)	Poly 500mL (B)	VOA Vial, 40mL; HCL (C VOA Vial, 40mL; HCL (D VOA Vial, 40mL; HCL (E		
VOA Vial, 40mL; HCL (F				

<b>Sample ID: 1608353-03</b>	<b>Non-Aqu</b>	<b>Sampled:24-Aug-16 16:00</b>		
Subcontract - Gasoline Range C25-Sep-16 17:00		07-Sep-16 16:00		
Subcontract - Diesel Range Org25-Sep-16 17:00		31-Aug-16 16:00		
<i>Containers Supplied:</i>				
Glass Jar, 8 oz. (A)	Glass Jar, 4 oz. (B)			

3.2°C  
DB9 NCF

Released By \_\_\_\_\_ Date \_\_\_\_\_ Received By *MD* Date *8/26/16*

Released By \_\_\_\_\_ Date \_\_\_\_\_ Received By *Feda* Date *57016069169 14*

Oregon Department of Environmental Quality Chain of Custody Record <sup>1</sup>

Page 1 of 1



Client<sup>2</sup>: ODEQ HW

Project<sup>3</sup>: OLRCO

QAPP or SAP#<sup>4</sup>:

Survey<sup>5</sup>:

Survey Batch<sup>6</sup>:

Sample Collector (s)<sup>7</sup>: Killian Condon, Laurey Cook  
Heather Krupp

Sampling Agency<sup>8</sup>:

QTime Code<sup>9</sup>:

TAT<sup>10</sup>:

LEAD Coordinator and Contact #<sup>11</sup>:

Report Recipients<sup>12</sup>: Laurey Cook

Sample Information					Bottle Types <sup>20</sup>						Request for Analysis <sup>21</sup>	
Item <sup>13</sup>	LASAR ID # <sup>14</sup>	Collection Date <sup>15</sup> : 8/24/2010	Station Name <sup>16</sup>	Time <sup>17</sup>	Sample Type <sup>18</sup>	Report Matrix <sup>19</sup>	Amber AG, 1000ml HCL	Glass Jar, 8 oz.	Glass Jar, 4 oz.	Poly 500ml		VOA Vial, 40ml; HCL
1			APES-WW	1335	GS	EI	1					Piesd range organics
1			↓	1340	GS	EI				1		Ignitability
1			↓	1345	GS	EI					4	Benzene GCMS Gasoline range organics
2			Pretreated WW	1530			1					DRO
2			↓							1		Ignitability
2			↓								4	Benzene GCMS DRO
3			Product	1600	GS	OT		2				TPH-G, TPH-D

Event Comments: Product sample is oily water

Chain of Custody<sup>22</sup>

Relinquished By:	Agency/Company	Date/Time	Received by:	Agency/Company	Date/Time
[Signature]	ODEQ	8/25 9:20AM	[Signature]	ODEQ	8/25/10 9:20 0900

570460029469

14 samples  
07-Apr-15

[Signature] 8/26/10 0900

DB4 3.2°C  
DEQ06-LAB-0054-FORM \ COC wRequest



YOUR LAB OF CHOICE

# Cooler Receipt Checklist

Client: OREGON DEQ SDG# 1856162

Cooler Received/Opened On: 8/26/2016 By Meghan Shaver  
Temperature Upon Receipt: 32 °C

M Shaver  
(Signature)

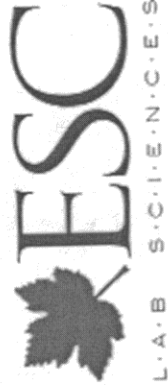
Cooler Receipt Check List			Yes	No	N/A
Were custody seals on outside of cooler and intact?			<input checked="" type="checkbox"/>		
Were custody papers properly filled out (ink, signed, etc.)?			<input checked="" type="checkbox"/>		
Did all bottles arrive in good condition?			<input checked="" type="checkbox"/>		
Were correct bottles used for the analyses requested?			<input checked="" type="checkbox"/>		
Was sufficient amount of sample sent in each bottle?			<input checked="" type="checkbox"/>		
Were correct preservatives used?					<input checked="" type="checkbox"/>
Were all applicable sample containers checked for preservation? (Any samples not in accepted pH range noted on COC.)					<input checked="" type="checkbox"/>
If applicable, was an observable VOA headspace present?				<input checked="" type="checkbox"/>	
Non Conformance Generated? (If yes see attached NCF)			<input checked="" type="checkbox"/>		



12065 LEBANON ROAD • MOUNT JULIET, TENNESSEE 37122  
800.767.5859 • 615.758.5858 • FAX 615.758.5859  
www.esclabsciences.com • sales@esclabsciences.com



**Andy Vann**



YOUR LAB OF CHOICE

Login #:1856162	Client: OREGONDEQ	Date:08/26/16	Evaluated by:Andy Vann
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**Non-Conformance (check applicable items)**

Sample Integrity	Chain of Custody Clarification	If Broken Container:
Parameter(s) past holding time	Login Clarification Needed	
Improper temperature	Chain of custody is incomplete	Insufficient packing material around container
Improper container	Please specify Metals requested.	Insufficient packing material inside cooler
x type	Please specify TCLP requested.	Improper handling by carrier (FedEx / UPS / Courier)
Improper preservation	Received additional samples not listed on coc.	Sample was frozen
Insufficient sample volume.	Sample ids on containers do not match ids on coc	Container lid not intact
Sample is biphasic.	Trip Blank not received.	<b>If no Chain of Custody:</b>
Vials received with headspace.	Client did not "X" analysis.	Received by:
Broken container	Chain of Custody is missing	Date/Time:
Broken container:		Temp./Cont. Rec./pH:
Sufficient sample remains		Carrier:
		Tracking#

**Login Comments: Received FLASH in 500ml HDPE.**

Client informed by:	Call	Email	x	Voice Mail	Date:08/29/16	Time:1130
TSR Initials:bjf	Client Contact: Sarah Rockwell					

**Login Instructions:**

Proceed and qualify. Please add comment "FLASH: add W qualifier for improper container"