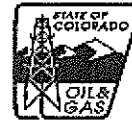


**State of Colorado**  
**Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



FOR OGCC USE ONLY

REM 9564

Document 2525964

Date 03/10/2016

## SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

☐ Spill ☐ Complaint  
☐ Inspection ☐ NOAV

Tracking No:

### CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☒ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☐ Other (describe): \_\_\_\_\_

OGCC Operator Number: <u>6720</u>	Contact Name and Telephone: <u>John Thomas</u>
Name of Operator: <u>Robert L. Bayless, Producer LLC</u>	No: <u>505-326-2659</u>
Address: <u>2700 Farmington Ave., Suite F1</u>	Fax: <u>505-326-6911</u>
City: <u>Farmington</u> State: <u>NM</u> Zip: <u>87499</u>	
API Number: <u>05-103-11781</u>	County: <u>Rio Blanco</u>
Facility Name: <u>Weaver Ridge</u>	Facility Number: _____
Well Name: <u>Weaver Ridge</u>	Well Number: <u>13-9H</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NESE, Sect. 13, T1S, R104W, 6th</u> Latitude: <u>39.95965</u> Longitude: <u>-109.01081</u>	

### TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): oil, produced water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☒ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): rangeland; non-cropland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: FEDERAL Surface Use Plan

Potential receptors (water wells within 1/4 mi, surface waters, etc.): None

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>Form 19 - Doc Num 400962867</u>	_____
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

### REMEDIALATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):  
Form 19 - Doc Num 400962867

Describe how source is to be removed:  
Approximately 10 additional yards of soil will be excavated and hauled to disposal. Samples will be gathered to confirm remaining soil is clean. Excavation will begin before 06/01/2016.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:  
Impacted soil will be disposed of at a licensed facility.



**REMEDIATION WORKPLAN (Cont.)**

Tracking Number: \_\_\_\_\_  
Name of Operator: \_\_\_\_\_  
OGCC Operator No: \_\_\_\_\_  
Received Date: \_\_\_\_\_  
Well Name & No: \_\_\_\_\_  
Facility Name & No: \_\_\_\_\_

OGCC Employee: \_\_\_\_\_

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

No groundwater impacted

**Describe reclamation plan.** Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

The excavation will be backfilled with clean soil. The ground surface will be re-contoured to original conditions.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☒ N If yes, describe:

**Final disposition of E&P waste** (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Impacted soil will be disposed offsite at a licensed facility.

**IMPLEMENTATION SCHEDULE**

Date Site Investigation Began: 01/01/2016 Date Site Investigation Completed: 01/02/2016 Date Remediation Plan Submitted: 03/10/2016  
Remediation Start Date: 05/15/2016 Anticipated Completion Date: 06/01/2016 Actual Completion Date: \_\_\_\_\_

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: John Thomas

Signed: \_\_\_\_\_

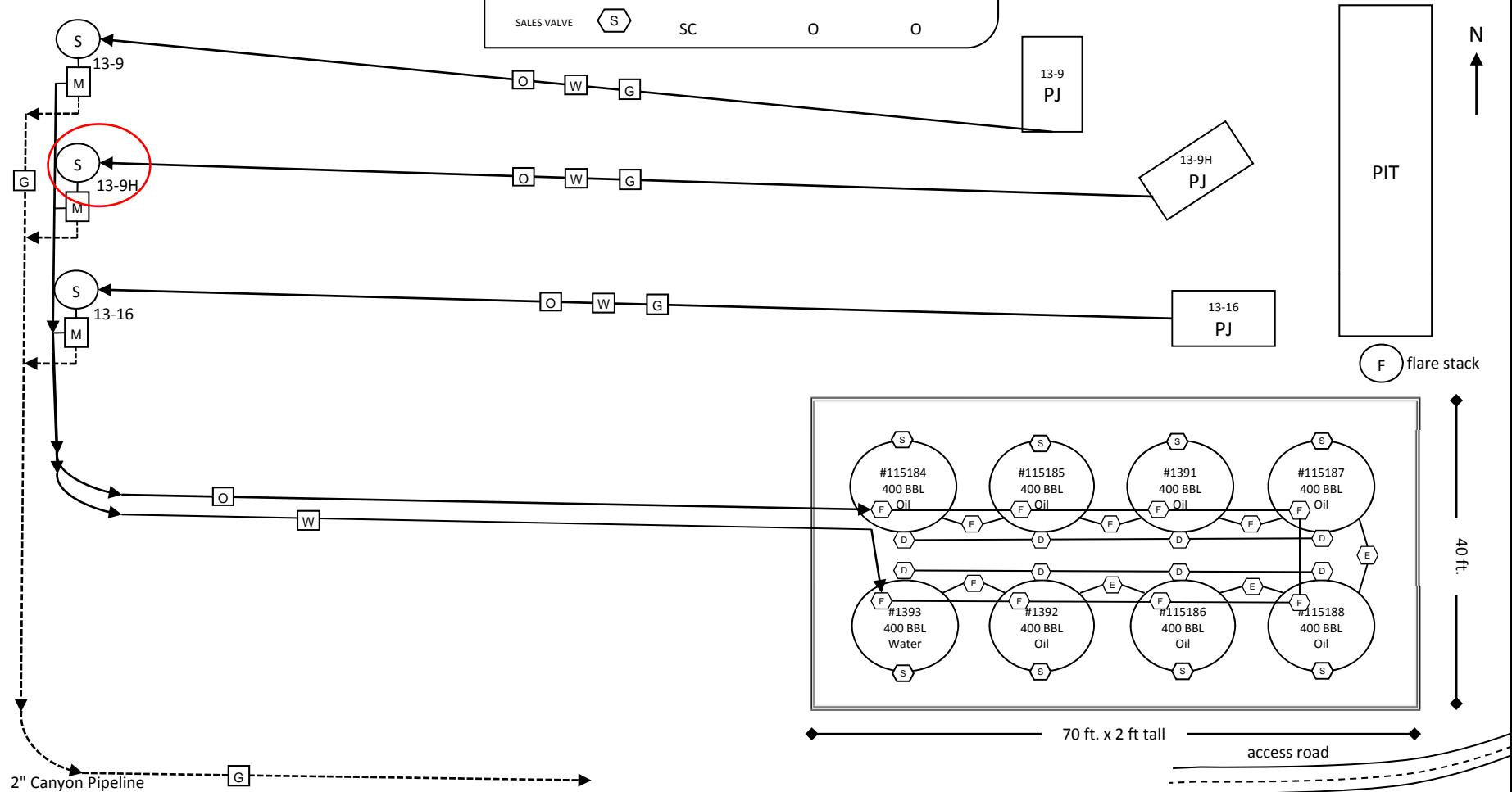
Title: Asset Manager and Operations Engineer

Date: 03/10/2016

OGCC Approved: \_\_\_\_\_ Title: EPS Northwest Date: 3/16/16

# Site Facility Diagram

		Production Phase	Sales Phase	Water Drain
DRAIN VALVE	(D)	SC	SC	O
FILL VALVE	(F)	O	SC	O
SALES VALVE	(S)	SC	O	O



## REMARKS:

Prevailing winds travel up or down the canyon.

Map not to scale.

Updated 07/25/2011 HT

This lease is subject to the site security plan for Robert L. Bayless, Producer LLC. The plan is located at:

**Robert L. Bayless, Producer LLC**  
**PO Box 168**  
**368 NM Highway 170**  
**Farmington, NM 87499**

## Robert L. Bayless, Producer LLC

### WEAVER RIDGE 13-9, 13-9H & 13-16

13-9 2125' FSL 899' FEL  
 13-9H 2074' FSL & 879' FEL  
 13-16 2056' FSL & 872' FEL  
 Section 13, T1S, R104W  
 Rio Blanco County, Colorado  
 Lease No. COC58704

## HRL Compliance Solutions- CO

Sample Delivery Group: L811169  
Samples Received: 01/09/2016  
Project Number: HRL 16-024  
Description: RL Bayless - WR 13-9H - Spill Confirmation  
Site: RL BAYLESS  
Report To: Kris Rowe  
2385 F ½ Road  
Grand Junction, CO 81505

Entire Report Reviewed By:



Shane Gambill

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.



<b><sup>1</sup>Cp: Cover Page</b>	<b>1</b>
<b><sup>2</sup>Tc: Table of Contents</b>	<b>2</b>
<b><sup>3</sup>Ss: Sample Summary</b>	<b>3</b>
<b><sup>4</sup>Cn: Case Narrative</b>	<b>4</b>
<b><sup>5</sup>Sr: Sample Results</b>	<b>5</b>
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BACKGROUND 1 L811169-02	7
BACKGROUND 2 L811169-03	8
BACKGROUND 3 L811169-04	9
<b><sup>6</sup>Qc: Quality Control Summary</b>	<b>10</b>
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## SPILL CONFIRMATION - PAD L811169-01 Solid

Collected by  
Jordan CarioCollected date/time  
01/08/16 12:35Received date/time  
01/09/16 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG841436	1	01/11/16 12:17	01/13/16 09:57	LTB
Calculated Results	WG841599	1	01/12/16 15:48	01/13/16 16:39	LTB
Mercury by Method 7471A	WG841722	1	01/12/16 12:00	01/13/16 15:59	TRB
Metals (ICP) by Method 6010B	WG841436	1	01/11/16 12:17	01/11/16 18:51	LTB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG841346	1	01/12/16 15:45	01/13/16 10:02	KMP
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG841346	20	01/12/16 15:45	01/13/16 12:21	KMP
Semi-Volatile Organic Compounds (GC) by Method 3546/DRO	WG840899	20	01/11/16 15:07	01/12/16 13:19	CLG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG842301	250	01/14/16 14:39	01/15/16 09:20	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG841367	50	01/11/16 12:04	01/11/16 21:02	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG842426	200	01/14/16 21:02	01/15/16 02:21	DWR
Wet Chemistry by Method 2580 B-2011	WG842067	1	01/14/16 16:49	01/14/16 16:50	KBC
Wet Chemistry by Method 3060A/7196A	WG841408	1	01/12/16 13:33	01/13/16 09:57	MAJ
Wet Chemistry by Method 9045D	WG841478	1	01/11/16 13:19	01/11/16 13:19	MAJ
Wet Chemistry by Method 9050AMod	WG841518	1	01/12/16 15:00	01/12/16 15:00	JER

<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

## BACKGROUND 1 L811169-02 Solid

Collected by  
Jordan CarioCollected date/time  
01/08/16 12:48Received date/time  
01/09/16 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG841599	1	01/12/16 15:48	01/13/16 16:42	LTB
Metals (ICP) by Method 6010B	WG841436	1	01/11/16 12:17	01/11/16 17:38	LTB
Wet Chemistry by Method 9045D	WG841478	1	01/11/16 13:19	01/11/16 13:19	MAJ
Wet Chemistry by Method 9050AMod	WG841518	1	01/12/16 15:00	01/12/16 15:00	JER

## BACKGROUND 2 L811169-03 Solid

Collected by  
Jordan CarioCollected date/time  
01/08/16 12:55Received date/time  
01/09/16 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG841436	1	01/11/16 12:17	01/11/16 18:54	LTB

## BACKGROUND 3 L811169-04 Solid

Collected by  
Jordan CarioCollected date/time  
01/08/16 13:00Received date/time  
01/09/16 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 6010B	WG841436	1	01/11/16 12:17	01/11/16 18:57	LTB



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.

Shane Gambill  
Technical Service Representative

<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



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.86		1	01/13/2016 16:39	WG841599

## Calculated Results

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Trivalent	13.2		2.00	1	01/13/2016 09:57	<a href="#">WG841436</a>

## Wet Chemistry by Method 2580 B-2011

Analyte	Result mV	Qualifier	Dilution	Analysis date / time	Batch
ORP	253		1	01/14/2016 16:50	<a href="#">WG842067</a>

## Wet Chemistry by Method 3060A/7196A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	ND		2.00	1	01/13/2016 09:57	<a href="#">WG841408</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.46		1	01/11/2016 13:19	<a href="#">WG841478</a>

## Sample Narrative:

9045D L811169-01 WG841478: 8.46 at 23.7c

## Wet Chemistry by Method 9050AMod

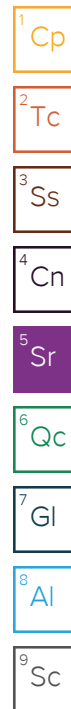
Analyte	Result umhos/cm	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	588		1	01/12/2016 15:00	<a href="#">WG841518</a>

## Mercury by Method 7471A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0200	1	01/13/2016 15:59	<a href="#">WG841722</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	25.5		2.00	1	01/11/2016 18:51	<a href="#">WG841436</a>
Barium	126		0.500	1	01/11/2016 18:51	<a href="#">WG841436</a>
Cadmium	ND		0.500	1	01/11/2016 18:51	<a href="#">WG841436</a>
Chromium	13.2		1.00	1	01/11/2016 18:51	<a href="#">WG841436</a>
Copper	26.1		2.00	1	01/11/2016 18:51	<a href="#">WG841436</a>
Lead	21.2		0.500	1	01/11/2016 18:51	<a href="#">WG841436</a>
Nickel	16.6		2.00	1	01/11/2016 18:51	<a href="#">WG841436</a>
Selenium	ND		2.00	1	01/11/2016 18:51	<a href="#">WG841436</a>
Silver	ND		1.00	1	01/11/2016 18:51	<a href="#">WG841436</a>
Zinc	62.2		5.00	1	01/11/2016 18:51	<a href="#">WG841436</a>







Collected date/time: 01/08/16 12:35

L811169

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	999		25.0	250	01/15/2016 09:20	<a href="#">WG842301</a>
(S) a,a,a-Trifluorotoluene(FID)	94.9		59.0-128		01/15/2016 09:20	<a href="#">WG842301</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	1.18		0.0500	50	01/11/2016 21:02	<a href="#">WG841367</a>
Toluene	21.2		1.00	200	01/15/2016 02:21	<a href="#">WG842426</a>
Ethylbenzene	2.92		0.0500	50	01/11/2016 21:02	<a href="#">WG841367</a>
Total Xylenes	26.0		0.150	50	01/11/2016 21:02	<a href="#">WG841367</a>
(S) Toluene-d8	112		88.7-115		01/11/2016 21:02	<a href="#">WG841367</a>
(S) Dibromofluoromethane	95.6		76.3-123		01/11/2016 21:02	<a href="#">WG841367</a>
(S) a,a,a-Trifluorotoluene	105		87.2-117		01/11/2016 21:02	<a href="#">WG841367</a>
(S) 4-Bromofluorobenzene	12.9	<a href="#">J2</a>	69.7-129		01/11/2016 21:02	<a href="#">WG841367</a>

## Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1050		80.0	20	01/12/2016 13:19	<a href="#">WG840899</a>
(S) o-Terphenyl	110	<a href="#">J7</a>	50.0-150		01/12/2016 13:19	<a href="#">WG840899</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.103		0.00600	1	01/13/2016 10:02	<a href="#">WG841346</a>
Acenaphthene	0.199		0.120	20	01/13/2016 12:21	<a href="#">WG841346</a>
Acenaphthylene	ND		0.120	20	01/13/2016 12:21	<a href="#">WG841346</a>
Benzo(a)anthracene	ND		0.00600	1	01/13/2016 10:02	<a href="#">WG841346</a>
Benzo(a)pyrene	ND		0.00600	1	01/13/2016 10:02	<a href="#">WG841346</a>
Benzo(b)fluoranthene	0.00839		0.00600	1	01/13/2016 10:02	<a href="#">WG841346</a>
Benzo(g,h,i)perylene	0.00625		0.00600	1	01/13/2016 10:02	<a href="#">WG841346</a>
Benzo(k)fluoranthene	ND		0.00600	1	01/13/2016 10:02	<a href="#">WG841346</a>
Chrysene	0.0234		0.00600	1	01/13/2016 10:02	<a href="#">WG841346</a>
Dibenz(a,h)anthracene	ND		0.00600	1	01/13/2016 10:02	<a href="#">WG841346</a>
Fluoranthene	0.0105		0.00600	1	01/13/2016 10:02	<a href="#">WG841346</a>
Fluorene	0.631		0.120	20	01/13/2016 12:21	<a href="#">WG841346</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	01/13/2016 10:02	<a href="#">WG841346</a>
Naphthalene	3.34		0.400	20	01/13/2016 12:21	<a href="#">WG841346</a>
Phenanthrene	0.614		0.00600	1	01/13/2016 10:02	<a href="#">WG841346</a>
Pyrene	0.0709		0.00600	1	01/13/2016 10:02	<a href="#">WG841346</a>
1-Methylnaphthalene	3.97		0.400	20	01/13/2016 12:21	<a href="#">WG841346</a>
2-Methylnaphthalene	6.36		0.400	20	01/13/2016 12:21	<a href="#">WG841346</a>
2-Chloronaphthalene	ND		0.400	20	01/13/2016 12:21	<a href="#">WG841346</a>
(S) p-Terphenyl-d14	59.0		32.2-131		01/13/2016 10:02	<a href="#">WG841346</a>
(S) Nitrobenzene-d5	317	<a href="#">J7</a>	22.1-146		01/13/2016 12:21	<a href="#">WG841346</a>
(S) 2-Fluorobiphenyl	70.6	<a href="#">J7</a>	40.6-122		01/13/2016 12:21	<a href="#">WG841346</a>



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.138		1	01/13/2016 16:42	WG841599

## Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.27		1	01/11/2016 13:19	<a href="#">WG841478</a>

## Sample Narrative:

9045D L811169-02 WG841478: 8.27 at 22.9c

## Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	255		1	01/12/2016 15:00	<a href="#">WG841518</a>

## Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	12.1		2.00	1	01/11/2016 17:38	<a href="#">WG841436</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	9.83		2.00	1	01/11/2016 18:54	<a href="#">WG841436</a>

<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

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	5.96		2.00	1	01/11/2016 18:57	<a href="#">WG841436</a>

<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



L811381-02 Original Sample (OS) • Duplicate (DUP)

(OS) 01/14/16 16:50 • (DUP) 01/14/16 16:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mV	mV		%		%
ORP	242	242	1	0.000		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

L811075-20 Original Sample (OS) • Duplicate (DUP)

(OS) 01/14/16 16:50 • (DUP) 01/14/16 16:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mV	mV		%		%
ORP	146	145	1	0.687		20

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

(LCS) 01/14/16 16:50 • (LCSD) 01/14/16 16:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mV	mV	mV	%	%	%			%	%
ORP	100	101	101	101	101	90.0-110			0.000	20

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) 01/13/16 09:30

	MB Result	MB Qualifier	MB RDL
Analyte	mg/kg		mg/kg
Chromium,Hexavalent	ND		2.00

L811075-21 Original Sample (OS) • Duplicate (DUP)

(OS) 01/13/16 09:42 • (DUP) 01/13/16 09:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chromium,Hexavalent	ND	ND	1	0.000		20

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

(LCS) 01/13/16 09:32 • (LCSD) 01/13/16 09:33

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium,Hexavalent	97.4	88.0	88.2	90.3	90.6	80.0-120			0.227	20

L811075-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/13/16 09:42 • (MS) 01/13/16 09:44 • (MSD) 01/13/16 09:44

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium,Hexavalent	20.0	ND	17.5	17.5	87.5	87.5	1	75.0-125			0.000	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L811169-01 Original Sample (OS) • Duplicate (DUP)

(OS) 01/11/16 13:19 • (DUP) 01/11/16 13:19

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	SU	SU		%		%
pH	8.46	8.46	1	0.000	1	

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

(LCS) 01/11/16 13:19 • (LCSD) 01/11/16 13:19

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	SU	SU	SU	%	%	%			%	%
pH	6.72	6.70	6.70	99.7	99.7	98.5-102			0.000	1

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 01/12/16 15:00

Analyte	MB Result umhos/cm	MB Qualifier	MB RDL umhos/cm
Specific Conductance	3.72		

L811055-01 Original Sample (OS) • Duplicate (DUP)

(OS) 01/12/16 15:00 • (DUP) 01/12/16 15:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	402	412	1	2.46		20

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

(LCS) 01/12/16 15:00 • (LCSD) 01/12/16 15:00

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCSD Result umhos/cm	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Specific Conductance	915	935	932	102	102	90.0-110			0.321	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 01/13/16 15:28

Analyte	MB Result mg/kg	<u>MB Qualifier</u>	MB RDL mg/kg
Mercury	ND		0.0200

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

(LCS) 01/13/16 15:30 • (LCSD) 01/13/16 19:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.300	0.261	0.257	87	86	80-120			2	20

L811159-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/13/16 15:35 • (MS) 01/13/16 15:38 • (MSD) 01/13/16 15:41

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.300	ND	0.285	0.270	95	90	1	75-125			5	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

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) 01/11/16 17:29

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Arsenic	ND		2.00
Barium	ND		0.500
Cadmium	ND		0.500
Chromium	ND		1.00
Copper	ND		2.00
Lead	ND		0.500
Nickel	ND		2.00
Selenium	ND		2.00
Silver	ND		1.00
Zinc	ND		5.00

<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

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

(LCS) 01/11/16 17:32 • (LCSD) 01/11/16 17:35

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 %
Arsenic	100	91.1	92.9	91	93	80-120			2	20
Barium	100	94.3	95.8	94	96	80-120			2	20
Cadmium	100	95.2	97.0	95	97	80-120			2	20
Chromium	100	94.5	96.4	94	96	80-120			2	20
Copper	100	94.4	96.2	94	96	80-120			2	20
Lead	100	97.8	100	98	100	80-120			2	20
Nickel	100	97.6	99.3	98	99	80-120			2	20
Selenium	100	93.4	95.5	93	96	80-120			2	20
Silver	100	95.8	97.7	96	98	80-120			2	20
Zinc	100	96.2	98.1	96	98	80-120			2	20

L811169-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/11/16 17:38 • (MS) 01/11/16 17:47 • (MSD) 01/11/16 17:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	12.1	105	101	93	89	1	75-125			4	20
Barium	100	195	297	282	103	88	1	75-125			5	20
Cadmium	100	0.266	99.7	96.2	99	96	1	75-125			4	20



L811169-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/11/16 17:38 • (MS) 01/11/16 17:47 • (MSD) 01/11/16 17:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	100	13.4	100	97.7	87	84	1	75-125			2	20
Copper	100	15.4	110	106	94	91	1	75-125			3	20
Lead	100	10.4	111	108	101	98	1	75-125			3	20
Nickel	100	13.3	116	113	103	100	1	75-125			3	20
Selenium	100	0.922	98.0	94.6	97	94	1	75-125			4	20
Silver	100	ND	106	103	106	103	1	75-125			3	20
Zinc	100	39.6	126	123	86	83	1	75-125			2	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

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) 01/14/16 13:12

Analyte	MB Result	MB Qualifier	MB RDL
	mg/kg		mg/kg
TPH (GC/FID) Low Fraction	ND		0.100
(S) a,a,a-Trifluorotoluene(FID)	99.9		59.0-128

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

(LCS) 01/14/16 11:19 • (LCSD) 01/14/16 11:40

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	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.72	5.67	104	103	63.5-137			0.870	20
(S) a,a,a-Trifluorotoluene(FID)				101	102	59.0-128				

L811767-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/15/16 06:50 • (MS) 01/15/16 10:23 • (MSD) 01/15/16 10:44

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	ND	16.0	15.6	58.3	56.9	5	28.5-138			2.41	23.6
(S) a,a,a-Trifluorotoluene(FID)					97.9	97.5		59.0-128				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 01/11/16 09:05

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Benzene	ND		0.00100
Ethylbenzene	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	101		88.7-115
(S) Dibromofluoromethane	99.4		76.3-123
(S) a,a,a-Trifluorotoluene	106		87.2-117
(S) 4-Bromofluorobenzene	102		69.7-129

<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

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

(LCS) 01/11/16 07:48 • (LCSD) 01/11/16 08:07

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 %
Benzene	0.0250	0.0216	0.0222	86.4	88.7	72.6-120			2.66	20
Ethylbenzene	0.0250	0.0248	0.0248	99.1	99.1	78.6-124			0.0800	20
Xylenes, Total	0.0750	0.0718	0.0720	95.8	96.0	78.1-123			0.270	20
(S) Toluene-d8				102	102	88.7-115				
(S) Dibromofluoromethane				98.2	98.9	76.3-123				
(S) a,a,a-Trifluorotoluene				106	105	87.2-117				
(S) 4-Bromofluorobenzene				101	99.9	69.7-129				

L811062-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/11/16 13:42 • (MS) 01/11/16 12:44 • (MSD) 01/11/16 13:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	ND	0.103	0.101	82.4	80.7	5	47.8-131			2.18	22.8
Ethylbenzene	0.0250	ND	0.117	0.110	93.7	87.9	5	44.8-135			6.47	26.9
Xylenes, Total	0.0750	ND	0.337	0.321	89.9	85.7	5	42.7-135			4.79	26.6
(S) Toluene-d8					103	102		88.7-115				
(S) Dibromofluoromethane					98.3	99.6		76.3-123				
(S) a,a,a-Trifluorotoluene					105	106		87.2-117				
(S) 4-Bromofluorobenzene					101	100		69.7-129				



Method Blank (MB)

(MB) 01/14/16 20:59

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Toluene	ND		0.00500

<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

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

(LCS) 01/14/16 19:29 • (LCSD) 01/14/16 19:51

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 %
Toluene	0.0250	0.0253	0.0256	101	102	76.7-116			1.21	20

L811911-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/14/16 22:58 • (MS) 01/14/16 21:50 • (MSD) 01/14/16 22:13

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Toluene	0.0250	0.000274	0.123	0.120	98.3	95.9	5	47.8-127			2.48	24.3





Method Blank (MB)

(MB) 01/11/16 23:17

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
TPH (GC/FID) High Fraction	ND		4.00
(S) o-Terphenyl	69.6		50.0-150

<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

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

(LCS) 01/11/16 23:28 • (LCSD) 01/11/16 23:40

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 %
TPH (GC/FID) High Fraction	60.0	46.0	45.3	76.6	75.5	50.0-150			1.46	20
(S) o-Terphenyl				83.9	78.8	50.0-150				

L810700-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/12/16 02:28 • (MS) 01/12/16 02:39 • (MSD) 01/12/16 02:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	6.00	10.6	44.2	48.4	56.1	63.1	10	50.0-150			9.10	20
(S) o-Terphenyl					98.4	94.5		50.0-150				

Method Blank (MB)

(MB) 01/13/16 03:20

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
Anthracene	ND		0.00600
Acenaphthene	ND		0.00600
Acenaphthylene	ND		0.00600
Benzo(a)anthracene	ND		0.00600
Benzo(a)pyrene	ND		0.00600
Benzo(b)fluoranthene	ND		0.00600
Benzo(g,h,i)perylene	ND		0.00600
Benzo(k)fluoranthene	ND		0.00600
Chrysene	ND		0.00600
Dibenz(a,h)anthracene	ND		0.00600
Fluoranthene	ND		0.00600
Fluorene	ND		0.00600
Indeno(1,2,3-cd)pyrene	ND		0.00600
Naphthalene	ND		0.0200
Phenanthrene	ND		0.00600
Pyrene	ND		0.00600
1-Methylnaphthalene	ND		0.0200
2-Methylnaphthalene	ND		0.0200
2-Chloronaphthalene	ND		0.0200
(S) p-Terphenyl-d14	69.6		32.2-131
(S) Nitrobenzene-d5	82.8		22.1-146
(S) 2-Fluorobiphenyl	78.5		40.6-122

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 01/13/16 02:34 • (LCSD) 01/13/16 02:57

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 %
Anthracene	0.0800	0.0647	0.0644	80.9	80.6	50.3-130			0.470	20
Acenaphthene	0.0800	0.0665	0.0680	83.1	85.0	52.4-120			2.33	20
Acenaphthylene	0.0800	0.0710	0.0715	88.7	89.4	49.6-120			0.800	20
Benzo(a)anthracene	0.0800	0.0712	0.0715	89.0	89.4	46.7-125			0.360	20
Benzo(a)pyrene	0.0800	0.0522	0.0500	65.2	62.5	42.3-119			4.18	20
Benzo(b)fluoranthene	0.0800	0.0684	0.0664	85.5	83.1	43.6-124			2.87	20
Benzo(g,h,i)perylene	0.0800	0.0668	0.0662	83.5	82.7	45.1-132			0.960	20
Benzo(k)fluoranthene	0.0800	0.0655	0.0668	81.8	83.4	46.1-131			1.94	20

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

(LCS) 01/13/16 02:34 • (LCSD) 01/13/16 02:57

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 %
Chrysene	0.0800	0.0678	0.0696	84.8	87.0	49.5-131			2.52	20
Dibenz(a,h)anthracene	0.0800	0.0655	0.0656	81.8	81.9	44.8-133			0.130	20
Fluoranthene	0.0800	0.0681	0.0689	85.2	86.2	49.3-128			1.19	20
Fluorene	0.0800	0.0666	0.0673	83.3	84.1	50.6-121			0.960	20
Indeno(1,2,3-cd)pyrene	0.0800	0.0670	0.0667	83.8	83.3	46.1-135			0.510	20
Naphthalene	0.0800	0.0664	0.0670	83.0	83.8	49.6-115			0.990	20
Phenanthrene	0.0800	0.0655	0.0662	81.8	82.8	48.8-121			1.13	20
Pyrene	0.0800	0.0733	0.0736	91.7	92.0	44.7-130			0.350	20
1-Methylnaphthalene	0.0800	0.0691	0.0686	86.4	85.7	50.6-122			0.750	20
2-Methylnaphthalene	0.0800	0.0670	0.0681	83.8	85.1	50.4-120			1.57	20
2-Chloronaphthalene	0.0800	0.0676	0.0691	84.5	86.3	53.9-121			2.12	20
(S) p-Terphenyl-d14				73.6	74.6	32.2-131				
(S) Nitrobenzene-d5				86.6	88.6	22.1-146				
(S) 2-Fluorobiphenyl				80.0	81.9	40.6-122				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L811008-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/13/16 06:58 • (MS) 01/13/16 07:21 • (MSD) 01/13/16 07:44

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	ND	0.0633	0.0546	79.2	68.3	1	26.5-141			14.7	21.2
Acenaphthene	0.0800	ND	0.0613	0.0561	76.7	70.2	1	31.9-130			8.89	20
Acenaphthylene	0.0800	ND	0.0674	0.0621	84.2	77.6	1	33.7-129			8.16	20
Benzo(a)anthracene	0.0800	ND	0.0615	0.0532	76.9	66.5	1	18.3-136			14.6	24.6
Benzo(a)pyrene	0.0800	ND	0.0584	0.0504	73.0	63.0	1	16.9-135			14.7	25.2
Benzo(b)fluoranthene	0.0800	ND	0.0517	0.0433	64.7	54.2	1	10.0-134			17.7	30.9
Benzo(g,h,i)perylene	0.0800	ND	0.0576	0.0478	72.0	59.8	1	14.1-140			18.6	25.5
Benzo(k)fluoranthene	0.0800	ND	0.0619	0.0540	77.4	67.5	1	18.2-138			13.6	25.6
Chrysene	0.0800	ND	0.0623	0.0551	77.9	68.9	1	17.1-145			12.2	24.2
Dibenz(a,h)anthracene	0.0800	ND	0.0601	0.0539	75.2	67.3	1	18.5-138			11.0	24.3
Fluoranthene	0.0800	ND	0.0598	0.0497	74.8	62.2	1	15.4-144			18.4	27.1
Fluorene	0.0800	ND	0.0592	0.0526	74.0	65.8	1	23.5-136			11.7	20
Indeno(1,2,3-cd)pyrene	0.0800	ND	0.0580	0.0498	72.6	62.3	1	14.5-142			15.2	25.8
Naphthalene	0.0800	0.000648	0.0653	0.0614	80.9	75.9	1	29.2-128			6.23	20
Phenanthrene	0.0800	ND	0.0576	0.0499	72.0	62.4	1	20.1-134			14.3	23.6
Pyrene	0.0800	ND	0.0634	0.0524	79.2	65.5	1	11.0-148			19.0	26.1

L811008-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 01/13/16 06:58 • (MS) 01/13/16 07:21 • (MSD) 01/13/16 07:44

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
1-Methylnaphthalene	0.0800	ND	0.0633	0.0586	79.1	73.2	1	28.4-137			7.74	20
2-Methylnaphthalene	0.0800	ND	0.0628	0.0578	78.5	72.2	1	26.6-137			8.29	20
2-Chloronaphthalene	0.0800	ND	0.0633	0.0580	79.1	72.6	1	38.6-126			8.66	20
(S) p-Terphenyl-d14					75.7	72.7		32.2-131				
(S) Nitrobenzene-d5					94.5	86.7		22.1-146				
(S) 2-Fluorobiphenyl					83.6	77.2		40.6-122				

<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



## Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,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.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J2	Surrogate recovery limits have been exceeded; values are outside lower 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		

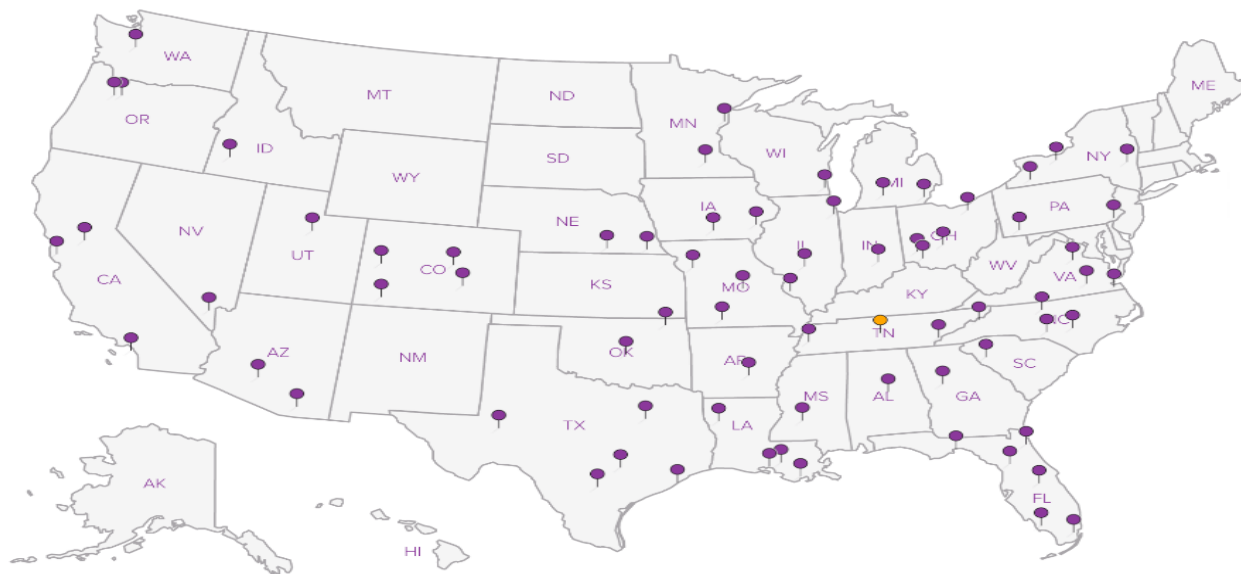
## Third Party & Federal Accreditations

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.**



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