

Terra Energy Partners

Sample Delivery Group: L907464
Samples Received: 05/06/2017
Project Number: TR 33-33-597 PIT CLO
Description: Terra Energy - TR 33-33-597 Pit
Site: TERRA - TR 33-33-597
Report To: Mike Gardner
1058 County Road 215
Parachute, CO 81635

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.



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NORTH WALL L907464-01 Solid

Collected by
Kris RoweCollected date/time
05/05/17 11:20Received date/time
05/06/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG977382	1	05/08/17 08:08	05/09/17 01:21	CCE
Calculated Results	WG977345	1	05/07/17 20:29	05/09/17 09:55	MA
Wet Chemistry by Method 3060A/7196A	WG977189	1	05/08/17 10:12	05/09/17 09:55	MA
Wet Chemistry by Method 9045D	WG977190	1	05/08/17 10:12	05/08/17 12:58	MHM
Wet Chemistry by Method 9050AMod	WG976983	1	05/06/17 19:25	05/06/17 19:25	MAJ
Mercury by Method 7471A	WG977644	1	05/08/17 16:35	05/09/17 12:26	TRB
Metals (ICP) by Method 6010B	WG977345	1	05/07/17 20:29	05/08/17 10:33	CCE
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG977364	1	05/07/17 19:24	05/08/17 00:05	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG977456	1	05/07/17 19:24	05/09/17 00:39	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG977320	1	05/08/17 14:14	05/09/17 01:37	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG977326	1	05/08/17 10:18	05/09/17 05:42	CLG

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

EAST WALL L907464-02 Solid

Collected by
Kris RoweCollected date/time
05/05/17 11:15Received date/time
05/06/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG977382	1	05/08/17 08:08	05/09/17 01:24	CCE
Calculated Results	WG977345	1	05/07/17 20:29	05/09/17 09:56	MA
Wet Chemistry by Method 3060A/7196A	WG977189	1	05/08/17 10:12	05/09/17 09:56	MA
Wet Chemistry by Method 9045D	WG977190	1	05/08/17 10:12	05/08/17 12:58	MHM
Wet Chemistry by Method 9050AMod	WG976983	1	05/06/17 19:25	05/06/17 19:25	MAJ
Mercury by Method 7471A	WG977644	1	05/08/17 16:35	05/09/17 12:28	TRB
Metals (ICP) by Method 6010B	WG977345	1	05/07/17 20:29	05/08/17 10:36	CCE
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG977364	1	05/07/17 19:24	05/08/17 00:28	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG977456	1	05/07/17 19:24	05/09/17 01:01	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG977320	1	05/08/17 14:14	05/09/17 01:48	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG977326	1	05/08/17 10:18	05/09/17 06:04	CLG

SOUTH WALL L907464-03 Solid

Collected by
Kris RoweCollected date/time
05/05/17 11:00Received date/time
05/06/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG977382	1	05/08/17 08:08	05/09/17 01:26	CCE
Calculated Results	WG977345	1	05/07/17 20:29	05/09/17 09:57	MA
Wet Chemistry by Method 3060A/7196A	WG977189	1	05/08/17 10:12	05/09/17 09:57	MA
Wet Chemistry by Method 9045D	WG977190	1	05/08/17 10:12	05/08/17 12:58	MHM
Wet Chemistry by Method 9050AMod	WG976983	1	05/06/17 19:25	05/06/17 19:25	MAJ
Mercury by Method 7471A	WG977644	1	05/08/17 16:35	05/09/17 12:31	TRB
Metals (ICP) by Method 6010B	WG977345	1	05/07/17 20:29	05/08/17 10:40	CCE
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG977364	1	05/07/17 19:24	05/08/17 00:50	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG977456	1	05/07/17 19:24	05/09/17 01:23	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG977320	1	05/08/17 14:14	05/09/17 01:59	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG977326	1	05/08/17 10:18	05/09/17 06:25	CLG

WEST WALL L907464-04 Solid

Collected by
Kris RoweCollected date/time
05/05/17 11:30Received date/time
05/06/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG977382	1	05/08/17 08:08	05/09/17 01:29	CCE
Calculated Results	WG977345	1	05/07/17 20:29	05/09/17 09:57	MA
Wet Chemistry by Method 3060A/7196A	WG977189	1	05/08/17 10:12	05/09/17 09:57	MA
Wet Chemistry by Method 9045D	WG977190	1	05/08/17 10:12	05/08/17 12:58	MHM

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



WEST WALL L907464-04 Solid

Collected by
Kris Rowe

Collected date/time
05/05/17 11:30

Received date/time
05/06/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 9050AMod	WG976983	1	05/06/17 19:25	05/06/17 19:25	MAJ
Mercury by Method 7471A	WG977644	1	05/08/17 16:35	05/09/17 12:33	TRB
Metals (ICP) by Method 6010B	WG977345	1	05/07/17 20:29	05/08/17 10:43	CCE
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG977364	1	05/07/17 19:24	05/08/17 01:12	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG977456	1	05/07/17 19:24	05/09/17 01:45	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG977320	1	05/08/17 14:14	05/09/17 02:10	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG977326	1	05/08/17 10:18	05/09/17 06:46	CLG

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

BOTTOM L907464-05 Solid

Collected by
Kris Rowe

Collected date/time
05/05/17 11:45

Received date/time
05/06/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG977382	1	05/08/17 08:08	05/09/17 01:37	CCE
Calculated Results	WG977345	1	05/07/17 20:29	05/09/17 09:58	MA
Wet Chemistry by Method 3060A/7196A	WG977189	1	05/08/17 10:12	05/09/17 09:58	MA
Wet Chemistry by Method 9045D	WG977190	1	05/08/17 10:12	05/08/17 12:58	MHM
Wet Chemistry by Method 9050AMod	WG976983	1	05/06/17 19:25	05/06/17 19:25	MAJ
Mercury by Method 7471A	WG977644	1	05/08/17 16:35	05/09/17 12:36	TRB
Metals (ICP) by Method 6010B	WG977345	1	05/07/17 20:29	05/08/17 10:46	CCE
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG977364	1	05/07/17 19:24	05/08/17 01:34	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG977456	1	05/07/17 19:24	05/09/17 02:08	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG977320	1	05/08/17 14:14	05/09/17 02:21	LM
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG977326	1	05/08/17 10:18	05/09/17 07:07	CLG

⁶Qc

⁷Gl

⁸Al

⁹Sc



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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	11.3		1	05/09/2017 01:21	WG977382

Calculated Results

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Trivalent	15.7		0.640	2.00	1	05/09/2017 09:55	WG977345

Wet Chemistry by Method 3060A/7196A

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	0.640	J	0.640	2.00	1	05/09/2017 09:55	WG977189

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.22	T8	1	05/08/2017 12:58	WG977190

Sample Narrative:

9045D L907464-01 WG977190: 9.22 at 22.3c

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	688		1	05/06/2017 19:25	WG976983

Mercury by Method 7471A

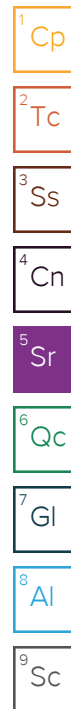
Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0131	J	0.00280	0.0200	1	05/09/2017 12:26	WG977644

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.94		0.650	2.00	1	05/08/2017 10:33	WG977345
Barium	552		0.170	0.500	1	05/08/2017 10:33	WG977345
Cadmium	0.306	J	0.0700	0.500	1	05/08/2017 10:33	WG977345
Chromium	16.3		0.140	1.00	1	05/08/2017 10:33	WG977345
Copper	14.9		0.530	2.00	1	05/08/2017 10:33	WG977345
Lead	7.16		0.190	0.500	1	05/08/2017 10:33	WG977345
Nickel	14.2		0.490	2.00	1	05/08/2017 10:33	WG977345
Selenium	U		0.740	2.00	1	05/08/2017 10:33	WG977345
Silver	U		0.280	1.00	1	05/08/2017 10:33	WG977345
Zinc	42.2		0.590	5.00	1	05/08/2017 10:33	WG977345

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0515	J	0.0217	0.100	1	05/08/2017 00:05	WG977364
(S) a,a,a-Trifluorotoluene(FID)	89.7			77.0-120		05/08/2017 00:05	WG977364





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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000564	U	0.000270	0.00100	1	05/09/2017 00:39	WG977456
Toluene	0.00200	U	0.000434	0.00500	1	05/09/2017 00:39	WG977456
Ethylbenzene	0.000643	U	0.000297	0.00100	1	05/09/2017 00:39	WG977456
Total Xylenes	0.000955	U	0.000698	0.00300	1	05/09/2017 00:39	WG977456
(S) Toluene-d8	101			80.0-120		05/09/2017 00:39	WG977456
(S) Dibromofluoromethane	100			74.0-131		05/09/2017 00:39	WG977456
(S) a,a,a-Trifluorotoluene	108			80.0-120		05/09/2017 00:39	WG977456
(S) 4-Bromofluorobenzene	105			64.0-132		05/09/2017 00:39	WG977456

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	19.3	J3	0.769	4.00	1	05/09/2017 01:37	WG977320
(S) o-Terphenyl	32.2			18.0-148		05/09/2017 01:37	WG977320

6 Qc

7 Gl

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Acenaphthene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Acenaphthylene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Benzo(a)anthracene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Benzo(a)pyrene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Benzo(b)fluoranthene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Benzo(g,h,i)perylene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Benzo(k)fluoranthene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Chrysene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Dibenz(a,h)anthracene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Fluoranthene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Fluorene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Naphthalene	U		0.00200	0.0200	1	05/09/2017 05:42	WG977326
Phenanthrene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
Pyrene	U		0.000600	0.00600	1	05/09/2017 05:42	WG977326
1-Methylnaphthalene	U		0.00200	0.0200	1	05/09/2017 05:42	WG977326
2-Methylnaphthalene	U		0.00200	0.0200	1	05/09/2017 05:42	WG977326
2-Chloronaphthalene	U		0.00200	0.0200	1	05/09/2017 05:42	WG977326
(S) p-Terphenyl-d14	53.2			23.0-120		05/09/2017 05:42	WG977326
(S) Nitrobenzene-d5	78.1			14.0-149		05/09/2017 05:42	WG977326
(S) 2-Fluorobiphenyl	63.7			34.0-125		05/09/2017 05:42	WG977326

8 Al

9 Sc



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	18.0		1	05/09/2017 01:24	WG977382

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Trivalent	24.8		0.640	2.00	1	05/09/2017 09:56	WG977345

Wet Chemistry by Method 3060A/7196A

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	1.36	J	0.640	2.00	1	05/09/2017 09:56	WG977189

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.43	T8	1	05/08/2017 12:58	WG977190

Sample Narrative:

9045D L907464-02 WG977190: 8.43 at 22.0c

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	1390		1	05/06/2017 19:25	WG976983

Mercury by Method 7471A

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0202		0.00280	0.0200	1	05/09/2017 12:28	WG977644

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.30		0.650	2.00	1	05/08/2017 10:36	WG977345
Barium	467		0.170	0.500	1	05/08/2017 10:36	WG977345
Cadmium	0.238	J	0.0700	0.500	1	05/08/2017 10:36	WG977345
Chromium	26.1		0.140	1.00	1	05/08/2017 10:36	WG977345
Copper	16.2		0.530	2.00	1	05/08/2017 10:36	WG977345
Lead	8.88		0.190	0.500	1	05/08/2017 10:36	WG977345
Nickel	23.7		0.490	2.00	1	05/08/2017 10:36	WG977345
Selenium	U		0.740	2.00	1	05/08/2017 10:36	WG977345
Silver	U		0.280	1.00	1	05/08/2017 10:36	WG977345
Zinc	48.4		0.590	5.00	1	05/08/2017 10:36	WG977345

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0328	J	0.0217	0.100	1	05/08/2017 00:28	WG977364
(S) a,a,a-Trifluorotoluene(FID)	90.7			77.0-120		05/08/2017 00:28	WG977364



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000315	U	0.000270	0.00100	1	05/09/2017 01:01	WG977456
Toluene	0.000855	U	0.000434	0.00500	1	05/09/2017 01:01	WG977456
Ethylbenzene	U		0.000297	0.00100	1	05/09/2017 01:01	WG977456
Total Xylenes	U		0.000698	0.00300	1	05/09/2017 01:01	WG977456
(S) Toluene-d8	103			80.0-120		05/09/2017 01:01	WG977456
(S) Dibromofluoromethane	102			74.0-131		05/09/2017 01:01	WG977456
(S) a,a,a-Trifluorotoluene	111			80.0-120		05/09/2017 01:01	WG977456
(S) 4-Bromofluorobenzene	104			64.0-132		05/09/2017 01:01	WG977456

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	26.6	J3	0.769	4.00	1	05/09/2017 01:48	WG977320
(S) o-Terphenyl	35.0			18.0-148		05/09/2017 01:48	WG977320

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Acenaphthene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Acenaphthylene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Benzo(a)anthracene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Benzo(a)pyrene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Benzo(b)fluoranthene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Benzo(g,h,i)perylene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Benzo(k)fluoranthene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Chrysene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Dibenz(a,h)anthracene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Fluoranthene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Fluorene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Naphthalene	U		0.00200	0.0200	1	05/09/2017 06:04	WG977326
Phenanthrene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
Pyrene	U		0.000600	0.00600	1	05/09/2017 06:04	WG977326
1-Methylnaphthalene	U		0.00200	0.0200	1	05/09/2017 06:04	WG977326
2-Methylnaphthalene	U		0.00200	0.0200	1	05/09/2017 06:04	WG977326
2-Chloronaphthalene	U		0.00200	0.0200	1	05/09/2017 06:04	WG977326
(S) p-Terphenyl-d14	68.3			23.0-120		05/09/2017 06:04	WG977326
(S) Nitrobenzene-d5	85.1			14.0-149		05/09/2017 06:04	WG977326
(S) 2-Fluorobiphenyl	75.9			34.0-125		05/09/2017 06:04	WG977326

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.75		1	05/09/2017 01:26	WG977382

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Trivalent	15.0		0.640	2.00	1	05/09/2017 09:57	WG977345

Wet Chemistry by Method 3060A/7196A

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	0.640	J	0.640	2.00	1	05/09/2017 09:57	WG977189

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.20	T8	1	05/08/2017 12:58	WG977190

Sample Narrative:

9045D L907464-03 WG977190: 9.20 at 21.6c

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	344		1	05/06/2017 19:25	WG976983

Mercury by Method 7471A

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0205		0.00280	0.0200	1	05/09/2017 12:31	WG977644

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.70		0.650	2.00	1	05/08/2017 10:40	WG977345
Barium	396		0.170	0.500	1	05/08/2017 10:40	WG977345
Cadmium	0.273	J	0.0700	0.500	1	05/08/2017 10:40	WG977345
Chromium	15.6		0.140	1.00	1	05/08/2017 10:40	WG977345
Copper	11.3		0.530	2.00	1	05/08/2017 10:40	WG977345
Lead	5.62		0.190	0.500	1	05/08/2017 10:40	WG977345
Nickel	12.7		0.490	2.00	1	05/08/2017 10:40	WG977345
Selenium	U		0.740	2.00	1	05/08/2017 10:40	WG977345
Silver	U		0.280	1.00	1	05/08/2017 10:40	WG977345
Zinc	39.8		0.590	5.00	1	05/08/2017 10:40	WG977345

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0568	J	0.0217	0.100	1	05/08/2017 00:50	WG977364
(S) a,a,a-Trifluorotoluene(FID)	90.8			77.0-120		05/08/2017 00:50	WG977364



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000293	U	0.000270	0.00100	1	05/09/2017 01:23	WG977456
Toluene	0.00139	U	0.000434	0.00500	1	05/09/2017 01:23	WG977456
Ethylbenzene	0.000406	U	0.000297	0.00100	1	05/09/2017 01:23	WG977456
Total Xylenes	0.000784	U	0.000698	0.00300	1	05/09/2017 01:23	WG977456
(S) Toluene-d8	102			80.0-120		05/09/2017 01:23	WG977456
(S) Dibromofluoromethane	102			74.0-131		05/09/2017 01:23	WG977456
(S) a,a,a-Trifluorotoluene	107			80.0-120		05/09/2017 01:23	WG977456
(S) 4-Bromofluorobenzene	101			64.0-132		05/09/2017 01:23	WG977456

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.14	J3	0.769	4.00	1	05/09/2017 01:59	WG977320
(S) o-Terphenyl	50.4			18.0-148		05/09/2017 01:59	WG977320

6 Qc

7 Gl

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Acenaphthene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Acenaphthylene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Benzo(a)anthracene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Benzo(a)pyrene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Benzo(b)fluoranthene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Benzo(g,h,i)perylene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Benzo(k)fluoranthene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Chrysene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Dibenz(a,h)anthracene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Fluoranthene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Fluorene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Naphthalene	U		0.00200	0.0200	1	05/09/2017 06:25	WG977326
Phenanthrene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
Pyrene	U		0.000600	0.00600	1	05/09/2017 06:25	WG977326
1-Methylnaphthalene	U		0.00200	0.0200	1	05/09/2017 06:25	WG977326
2-Methylnaphthalene	U		0.00200	0.0200	1	05/09/2017 06:25	WG977326
2-Chloronaphthalene	U		0.00200	0.0200	1	05/09/2017 06:25	WG977326
(S) p-Terphenyl-d14	60.2			23.0-120		05/09/2017 06:25	WG977326
(S) Nitrobenzene-d5	83.8			14.0-149		05/09/2017 06:25	WG977326
(S) 2-Fluorobiphenyl	72.0			34.0-125		05/09/2017 06:25	WG977326

8 Al

9 Sc



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	13.0		1	05/09/2017 01:29	WG977382

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Trivalent	14.9		0.640	2.00	1	05/09/2017 09:57	WG977345

Wet Chemistry by Method 3060A/7196A

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	U		0.640	2.00	1	05/09/2017 09:57	WG977189

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.60	T8	1	05/08/2017 12:58	WG977190

Sample Narrative:

9045D L907464-04 WG977190: 8.60 at 23.4c

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	1060		1	05/06/2017 19:25	WG976983

Mercury by Method 7471A

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0136	J	0.00280	0.0200	1	05/09/2017 12:33	WG977644

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.00		0.650	2.00	1	05/08/2017 10:43	WG977345
Barium	345		0.170	0.500	1	05/08/2017 10:43	WG977345
Cadmium	0.447	J	0.0700	0.500	1	05/08/2017 10:43	WG977345
Chromium	14.9		0.140	1.00	1	05/08/2017 10:43	WG977345
Copper	12.9		0.530	2.00	1	05/08/2017 10:43	WG977345
Lead	4.77		0.190	0.500	1	05/08/2017 10:43	WG977345
Nickel	12.1		0.490	2.00	1	05/08/2017 10:43	WG977345
Selenium	U		0.740	2.00	1	05/08/2017 10:43	WG977345
Silver	U		0.280	1.00	1	05/08/2017 10:43	WG977345
Zinc	36.4		0.590	5.00	1	05/08/2017 10:43	WG977345

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0292	J	0.0217	0.100	1	05/08/2017 01:12	WG977364
(S) a,a,a-Trifluorotoluene(FID)	89.1			77.0-120		05/08/2017 01:12	WG977364



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000270	0.00100	1	05/09/2017 01:45	WG977456
Toluene	0.000571	J	0.000434	0.00500	1	05/09/2017 01:45	WG977456
Ethylbenzene	U		0.000297	0.00100	1	05/09/2017 01:45	WG977456
Total Xylenes	U		0.000698	0.00300	1	05/09/2017 01:45	WG977456
(S) Toluene-d8	101			80.0-120		05/09/2017 01:45	WG977456
(S) Dibromofluoromethane	100			74.0-131		05/09/2017 01:45	WG977456
(S) a,a,a-Trifluorotoluene	107			80.0-120		05/09/2017 01:45	WG977456
(S) 4-Bromofluorobenzene	100			64.0-132		05/09/2017 01:45	WG977456

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	10.9	J3	0.769	4.00	1	05/09/2017 02:10	WG977320
(S) o-Terphenyl	44.0			18.0-148		05/09/2017 02:10	WG977320

6 Qc

7 Gl

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Acenaphthene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Acenaphthylene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Benzo(a)anthracene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Benzo(a)pyrene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Benzo(b)fluoranthene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Benzo(g,h,i)perylene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Benzo(k)fluoranthene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Chrysene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Dibenz(a,h)anthracene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Fluoranthene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Fluorene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Naphthalene	U		0.00200	0.0200	1	05/09/2017 06:46	WG977326
Phenanthrene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
Pyrene	U		0.000600	0.00600	1	05/09/2017 06:46	WG977326
1-Methylnaphthalene	U		0.00200	0.0200	1	05/09/2017 06:46	WG977326
2-Methylnaphthalene	U		0.00200	0.0200	1	05/09/2017 06:46	WG977326
2-Chloronaphthalene	U		0.00200	0.0200	1	05/09/2017 06:46	WG977326
(S) p-Terphenyl-d14	57.3			23.0-120		05/09/2017 06:46	WG977326
(S) Nitrobenzene-d5	85.0			14.0-149		05/09/2017 06:46	WG977326
(S) 2-Fluorobiphenyl	71.6			34.0-125		05/09/2017 06:46	WG977326

8 Al

9 Sc



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	14.9		1	05/09/2017 01:37	WG977382

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Trivalent	14.1		0.640	2.00	1	05/09/2017 09:58	WG977345

Wet Chemistry by Method 3060A/7196A

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium, Hexavalent	U		0.640	2.00	1	05/09/2017 09:58	WG977189

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.81	T8	1	05/08/2017 12:58	WG977190

Sample Narrative:

9045D L907464-05 WG977190: 7.81 at 23.0c

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	Dilution	Analysis date / time	Batch
Specific Conductance	1280		1	05/06/2017 19:25	WG976983

Mercury by Method 7471A

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0131	J	0.00280	0.0200	1	05/09/2017 12:36	WG977644

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.87		0.650	2.00	1	05/08/2017 10:46	WG977345
Barium	498		0.170	0.500	1	05/08/2017 10:46	WG977345
Cadmium	0.312	J	0.0700	0.500	1	05/08/2017 10:46	WG977345
Chromium	14.1		0.140	1.00	1	05/08/2017 10:46	WG977345
Copper	11.7		0.530	2.00	1	05/08/2017 10:46	WG977345
Lead	5.51		0.190	0.500	1	05/08/2017 10:46	WG977345
Nickel	13.4		0.490	2.00	1	05/08/2017 10:46	WG977345
Selenium	U		0.740	2.00	1	05/08/2017 10:46	WG977345
Silver	U		0.280	1.00	1	05/08/2017 10:46	WG977345
Zinc	38.0		0.590	5.00	1	05/08/2017 10:46	WG977345

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0585	J	0.0217	0.100	1	05/08/2017 01:34	WG977364
(S) a,a,a-Trifluorotoluene(FID)	89.9			77.0-120		05/08/2017 01:34	WG977364



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000288	U	0.000270	0.00100	1	05/09/2017 02:08	WG977456
Toluene	0.00156	U	0.000434	0.00500	1	05/09/2017 02:08	WG977456
Ethylbenzene	0.000520	U	0.000297	0.00100	1	05/09/2017 02:08	WG977456
Total Xylenes	0.00108	U	0.000698	0.00300	1	05/09/2017 02:08	WG977456
(S) Toluene-d8	101			80.0-120		05/09/2017 02:08	WG977456
(S) Dibromofluoromethane	102			74.0-131		05/09/2017 02:08	WG977456
(S) a,a,a-Trifluorotoluene	105			80.0-120		05/09/2017 02:08	WG977456
(S) 4-Bromofluorobenzene	100			64.0-132		05/09/2017 02:08	WG977456

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	10.0	J3	0.769	4.00	1	05/09/2017 02:21	WG977320
(S) o-Terphenyl	39.2			18.0-148		05/09/2017 02:21	WG977320

6 Qc

7 Gl

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Acenaphthene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Acenaphthylene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Benzo(a)anthracene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Benzo(a)pyrene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Benzo(b)fluoranthene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Benzo(g,h,i)perylene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Benzo(k)fluoranthene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Chrysene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Dibenz(a,h)anthracene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Fluoranthene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Fluorene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Naphthalene	U		0.00200	0.0200	1	05/09/2017 07:07	WG977326
Phenanthrene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
Pyrene	U		0.000600	0.00600	1	05/09/2017 07:07	WG977326
1-Methylnaphthalene	U		0.00200	0.0200	1	05/09/2017 07:07	WG977326
2-Methylnaphthalene	U		0.00200	0.0200	1	05/09/2017 07:07	WG977326
2-Chloronaphthalene	U		0.00200	0.0200	1	05/09/2017 07:07	WG977326
(S) p-Terphenyl-d14	45.2			23.0-120		05/09/2017 07:07	WG977326
(S) Nitrobenzene-d5	74.8			14.0-149		05/09/2017 07:07	WG977326
(S) 2-Fluorobiphenyl	57.0			34.0-125		05/09/2017 07:07	WG977326

8 Al

9 Sc

Method Blank (MB)

(MB) R3216510-1 05/09/17 09:44

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chromium,Hexavalent	U		0.64	2.00

L907462-01 Original Sample (OS) • Duplicate (DUP)

(OS) L907462-01 05/09/17 09:51 • (DUP) R3216510-4 05/09/17 09:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chromium,Hexavalent	U	0.000	1	0		20

L907500-01 Original Sample (OS) • Duplicate (DUP)

(OS) L907500-01 05/09/17 10:07 • (DUP) R3216510-8 05/09/17 10:07

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chromium,Hexavalent	ND	1.16	1	4	J	20

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

(LCS) R3216510-2 05/09/17 09:45 • (LCSD) R3216510-3 05/09/17 09:45

	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	56.9	49.8	49.8	88	88	80-120			0	20

L907462-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L907462-01 05/09/17 09:51 • (MS) R3216510-5 05/09/17 09:51 • (MSD) R3216510-6 05/09/17 09:51

	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	U	20.8	20.8	104	104	1	75-125			0	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L907123-01 Original Sample (OS) • Duplicate (DUP)

(OS) L907123-01 05/08/17 12:58 • (DUP) WG977190-3 05/08/17 12:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.67	6.66	1	0.150	T8	1

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L907500-01 Original Sample (OS) • Duplicate (DUP)

(OS) L907500-01 05/08/17 12:58 • (DUP) WG977190-4 05/08/17 12:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	10.3	10.2	1	0.391	T8	1

7 Gl

8 Al

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

(LCS) WG977190-1 05/08/17 12:58 • (LCSD) WG977190-2 05/08/17 12:58

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	su	su	su	%	%	%			%	%
pH	7.50	7.47	7.48	99.6	99.7	98.7-101			0.134	1

9 Sc

Method Blank (MB)

(MB) WG976983-5 05/06/17 19:25

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	umhos/cm		umhos/cm	umhos/cm
Specific Conductance	1.11			

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L906291-01 Original Sample (OS) • Duplicate (DUP)

(OS) L906291-01 05/06/17 19:25 • (DUP) WG976983-1 05/06/17 19:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	umhos/cm	umhos/cm		%		%
Specific Conductance	690	688	1	0.290		20

L907500-01 Original Sample (OS) • Duplicate (DUP)

(OS) L907500-01 05/06/17 19:25 • (DUP) WG976983-4 05/06/17 19:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	umhos/cm	umhos/cm		%		%
Specific Conductance	1410	1410	1	0.357		20

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

(LCS) WG976983-2 05/06/17 19:25 • (LCSD) WG976983-3 05/06/17 19:25

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	umhos/cm	umhos/cm	umhos/cm	%	%	%			%	%
Specific Conductance	1070	1070	1070	100	100	90.0-110			0.000	20



Method Blank (MB)

(MB) R3216563-1 05/09/17 11:45

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0028	0.0200

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

(LCS) R3216563-2 05/09/17 11:53 • (LCSD) R3216563-6 05/09/17 13:03

	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	%	%	%			%	%
Mercury	0.300	0.242	0.239	81	80	80-120			1	20

L907462-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L907462-01 05/09/17 11:58 • (MS) R3216563-4 05/09/17 12:00 • (MSD) R3216563-5 05/09/17 12:03

	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	%	%		%			%	%
Mercury	0.300	0.0123	0.317	0.297	102	95	1	75-125			6	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3216272-1 05/08/17 09:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.65	2.00
Barium	U		0.17	0.500
Cadmium	U		0.07	0.500
Chromium	0.303	J	0.14	1.00
Copper	U		0.53	2.00
Lead	U		0.19	0.500
Nickel	U		0.49	2.00
Selenium	U		0.74	2.00
Silver	U		0.28	1.00
Zinc	1.22	J	0.59	5.00

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

(LCS) R3216272-2 05/08/17 09:20 • (LCSD) R3216272-3 05/08/17 09:23

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	101	98.2	101	98	80-120			2	20
Barium	100	104	101	104	101	80-120			3	20
Cadmium	100	101	98.0	101	98	80-120			3	20
Chromium	100	100	98.4	100	98	80-120			2	20
Copper	100	103	100	103	100	80-120			3	20
Lead	100	98.9	97.0	99	97	80-120			2	20
Nickel	100	101	98.7	101	99	80-120			2	20
Selenium	100	102	99.2	102	99	80-120			2	20
Silver	20.0	19.4	19.0	97	95	80-120			2	20
Zinc	100	100	98.8	100	99	80-120			2	20

L907201-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L907201-01 05/08/17 09:26 • (MS) R3216272-6 05/08/17 09:34 • (MSD) R3216272-7 05/08/17 09:37

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 %
Arsenic	127	5.91	132	125	99	93	1	75-125			6	20
Barium	127	137	244	237	84	79	1	75-125			3	20
Cadmium	127	0.241	129	124	101	97	1	75-125			4	20
Chromium	127	19.9	142	144	96	98	1	75-125			2	20
Copper	127	11.1	143	138	104	99	1	75-125			4	20
Lead	127	14.1	144	140	102	99	1	75-125			3	20



L907201-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L907201-01 05/08/17 09:26 • (MS) R3216272-6 05/08/17 09:34 • (MSD) R3216272-7 05/08/17 09:37

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 %
Nickel	127	21.1	154	146	104	98	1	75-125			5	20
Selenium	127	U	123	116	97	91	1	75-125			6	20
Silver	25.5	U	25.1	24.2	98	95	1	75-125			4	20
Zinc	127	47.1	165	160	92	88	1	75-125			3	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3216164-3 05/07/17 21:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	92.6			77.0-120

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

(LCS) R3216164-1 05/07/17 20:25 • (LCSD) R3216164-2 05/07/17 20:47

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) Low Fraction	5.50	5.15	5.17	93.6	94.1	70.0-136			0.490	20
(S) a,a,a-Trifluorotoluene(FID)				104	105	77.0-120				

L906345-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906345-09 05/08/17 03:26 • (MS) R3216164-4 05/07/17 22:58 • (MSD) R3216164-5 05/07/17 23:21

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 %
TPH (GC/FID) Low Fraction	6.16	0.191	1.62	3.23	26.2	52.3	1	10.0-147		J3	66.5	30
(S) a,a,a-Trifluorotoluene(FID)					91.4	90.7		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3216448-3 05/08/17 20:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000270	0.00100
Ethylbenzene	U		0.000297	0.00100
Toluene	U		0.000434	0.00500
Xylenes, Total	U		0.000698	0.00300
(S) Toluene-d8	105			80.0-120
(S) Dibromofluoromethane	95.4			74.0-131
(S) a,a,a-Trifluorotoluene	114			80.0-120
(S) 4-Bromofluorobenzene	112			64.0-132

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

(LCS) R3216448-1 05/08/17 19:51 • (LCSD) R3216448-2 05/08/17 20:13

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	0.0206	0.0205	82.6	82.1	71.0-124			0.580	20
Ethylbenzene	0.0250	0.0259	0.0260	103	104	77.0-120			0.400	20
Toluene	0.0250	0.0227	0.0227	91.0	90.7	77.0-120			0.350	20
Xylenes, Total	0.0750	0.0783	0.0778	104	104	77.0-120			0.640	20
(S) Toluene-d8				102	100	80.0-120				
(S) Dibromofluoromethane				96.0	96.6	74.0-131				
(S) a,a,a-Trifluorotoluene				111	111	80.0-120				
(S) 4-Bromofluorobenzene				108	107	64.0-132				

L906335-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906335-01 05/09/17 02:30 • (MS) R3216448-4 05/08/17 21:41 • (MSD) R3216448-5 05/08/17 22:03

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	0.00184	0.0105	0.00933	34.6	30.0	1	13.0-146			11.7	27
Ethylbenzene	0.0250	0.00427	0.0148	0.0121	42.1	31.1	1	10.0-147			20.5	31
Toluene	0.0250	0.0107	0.0143	0.0115	14.4	3.20	1	10.0-144	J6		21.7	28
Xylenes, Total	0.0750	0.0278	0.0516	0.0356	31.7	10.3	1	10.0-150	J3 J6		36.7	31
(S) Toluene-d8					104	101		80.0-120				
(S) Dibromofluoromethane					98.1	100		74.0-131				
(S) a,a,a-Trifluorotoluene					111	109		80.0-120				
(S) 4-Bromofluorobenzene					101	97.0		64.0-132				



Method Blank (MB)

(MB) R3216592-1 05/08/17 23:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) High Fraction	U		0.769	4.00
(S) o-Terphenyl	48.1			18.0-148

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R3216592-2 05/08/17 23:45 • (LCSD) R3216592-3 05/08/17 23:56

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	30.8	38.3	51.4	63.8	50.0-150		J3	21.6	20
(S) o-Terphenyl				40.2	45.1	18.0-148				

L906827-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906827-01 05/09/17 00:07 • (MS) R3216592-4 05/09/17 00:18 • (MSD) R3216592-5 05/09/17 00:30

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	60.0	ND	29.0	31.8	43.7	48.2	1	50.0-150	J6	J6	9.03	20
(S) o-Terphenyl					37.7	40.1		18.0-148				

Method Blank (MB)

(MB) R3216566-3 05/09/17 01:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	U		0.000600	0.00600
Benzo(g,h,i)perylene	U		0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	U		0.00200	0.0200
Phenanthrene	U		0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) p-Terphenyl-d14	73.6			23.0-120
(S) Nitrobenzene-d5	90.3			14.0-149
(S) 2-Fluorobiphenyl	81.1			34.0-125

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

(LCS) R3216566-1 05/09/17 01:08 • (LCSD) R3216566-2 05/09/17 01:29

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	0.0563	0.0589	70.4	73.7	50.0-125			4.57	20
Acenaphthene	0.0800	0.0581	0.0615	72.6	76.9	52.0-120			5.72	20
Acenaphthylene	0.0800	0.0565	0.0600	70.6	75.0	51.0-120			6.08	20
Benzo(a)anthracene	0.0800	0.0517	0.0530	64.7	66.3	46.0-121			2.44	20
Benzo(a)pyrene	0.0800	0.0520	0.0521	64.9	65.1	42.0-121			0.190	20
Benzo(b)fluoranthene	0.0800	0.0533	0.0568	66.6	71.0	42.0-123			6.45	20
Benzo(g,h,i)perylene	0.0800	0.0573	0.0605	71.6	75.7	43.0-128			5.59	20
Benzo(k)fluoranthene	0.0800	0.0592	0.0644	74.0	80.5	45.0-128			8.40	20
Chrysene	0.0800	0.0607	0.0644	75.8	80.5	48.0-127			5.92	20
Dibenz(a,h)anthracene	0.0800	0.0587	0.0631	73.3	78.8	43.0-132			7.19	20
Fluoranthene	0.0800	0.0615	0.0659	76.9	82.3	49.0-129			6.82	20

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

(LCS) R3216566-1 05/09/17 01:08 • (LCSD) R3216566-2 05/09/17 01:29

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 %
Fluorene	0.0800	0.0594	0.0636	74.2	79.5	50.0-120			6.81	20
Indeno(1,2,3-cd)pyrene	0.0800	0.0605	0.0644	75.6	80.5	44.0-131			6.29	20
Naphthalene	0.0800	0.0522	0.0559	65.2	69.8	50.0-120			6.84	20
Phenanthrene	0.0800	0.0526	0.0563	65.7	70.4	48.0-120			6.86	20
Pyrene	0.0800	0.0516	0.0539	64.4	67.3	48.0-135			4.36	20
1-Methylnaphthalene	0.0800	0.0608	0.0661	76.0	82.7	52.0-122			8.41	20
2-Methylnaphthalene	0.0800	0.0586	0.0675	73.2	84.4	52.0-120			14.2	20
2-Chloronaphthalene	0.0800	0.0580	0.0610	72.5	76.2	50.0-120			5.03	20
(S) p-Terphenyl-d14				73.2	73.5	23.0-120				
(S) Nitrobenzene-d5				93.5	95.0	14.0-149				
(S) 2-Fluorobiphenyl				82.9	85.5	34.0-125				

L906348-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906348-04 05/09/17 02:11 • (MS) R3216566-4 05/09/17 02:32 • (MSD) R3216566-5 05/09/17 02:53

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	0.0576	0.0558	72.0	69.7	1	20.0-136			3.25	24
Acenaphthene	0.0800	ND	0.0577	0.0553	72.1	69.2	1	29.0-124			4.16	20
Acenaphthylene	0.0800	ND	0.0569	0.0543	71.1	67.9	1	35.0-120			4.55	20
Benzo(a)anthracene	0.0800	ND	0.0505	0.0486	63.1	60.8	1	13.0-132			3.66	27
Benzo(a)pyrene	0.0800	ND	0.0579	0.0556	72.4	69.6	1	14.0-138			3.98	27
Benzo(b)fluoranthene	0.0800	ND	0.0485	0.0461	60.6	57.7	1	10.0-129			5.04	31
Benzo(g,h,i)perylene	0.0800	ND	0.0577	0.0553	72.1	69.1	1	10.0-133			4.29	30
Benzo(k)fluoranthene	0.0800	ND	0.0629	0.0612	78.6	76.5	1	15.0-131			2.70	27
Chrysene	0.0800	ND	0.0602	0.0582	75.2	72.7	1	15.0-137			3.39	25
Dibenz(a,h)anthracene	0.0800	ND	0.0589	0.0561	73.7	70.2	1	15.0-132			4.91	27
Fluoranthene	0.0800	ND	0.0615	0.0591	76.8	73.9	1	13.0-139			3.87	28
Fluorene	0.0800	ND	0.0593	0.0565	74.1	70.6	1	27.0-122			4.75	22
Indeno(1,2,3-cd)pyrene	0.0800	ND	0.0599	0.0573	74.9	71.6	1	11.0-133			4.43	29
Naphthalene	0.0800	ND	0.0515	0.0491	64.4	61.3	1	18.0-136			4.88	21
Phenanthrene	0.0800	ND	0.0511	0.0492	63.8	61.5	1	15.0-133			3.72	25
Pyrene	0.0800	ND	0.0498	0.0488	62.3	61.0	1	11.0-146			2.13	29
1-Methylnaphthalene	0.0800	ND	0.0611	0.0590	76.4	73.8	1	24.0-137			3.44	22
2-Methylnaphthalene	0.0800	ND	0.0585	0.0564	73.2	70.5	1	23.0-136			3.65	22
2-Chloronaphthalene	0.0800	ND	0.0575	0.0556	71.9	69.5	1	36.0-120			3.44	20
(S) p-Terphenyl-d14					69.4	67.4		23.0-120				
(S) Nitrobenzene-d5					82.9	86.8		14.0-149				
(S) 2-Fluorobiphenyl					79.3	75.9		34.0-125				



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method 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.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ 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		

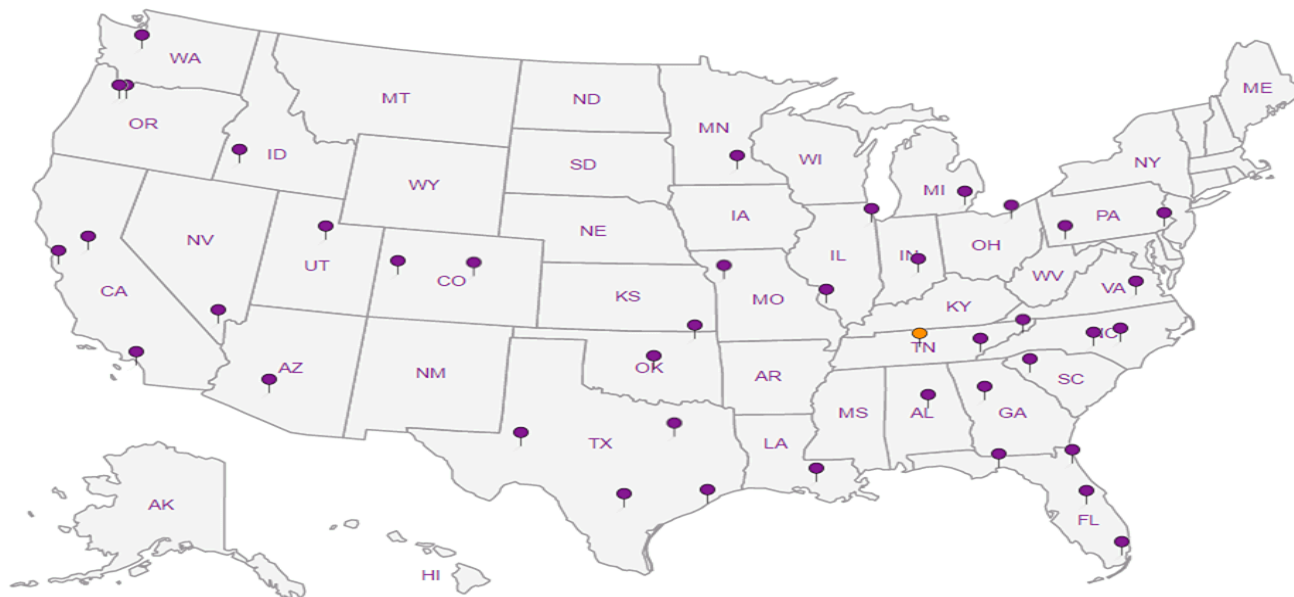
Third Party & Federal Accreditations

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 ^{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.**



ESC LAB SCIENCES Cooler Receipt Form

Client: <u>TERENFPCO</u>		SDG# <u>697464</u>	
Cooler Received/Opened On: <u>5/ 6 /17</u>		Temperature: <u>22</u>	
Received By: Marina Malone			
Signature: <u>Marina Malone</u>			
Receipt Check List			
	NP	Yes	No
COC Seal Present / Intact?	/		
COC Signed / Accurate?		/	
Bottles arrive intact?		/	
Correct bottles used?		/	
Sufficient volume sent?		/	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			