

Linn Energy - Parachute, CO

Sample Delivery Group: L891678
Samples Received: 02/22/2017
Project Number:
Description: 036B596
Site: 036B596
Report To: Tom Hogelin
235 Callahan Avenue
Parachute, CO 81635

Entire Report Reviewed By:



Mark W. Beasley
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

ONE LAB. NATIONWIDE.



036B LANDFARM 1 L891678-01 Solid

Collected by
Tom Hogelin

Collected date/time
02/21/17 13:30

Received date/time
02/22/17 09:00

¹Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 350.1	WG955363	1	02/24/17 12:05	02/27/17 10:30	JER
Wet Chemistry by Method 4500NOrg C-2011	WG956213	1	02/27/17 17:34	02/27/17 20:57	ASK
Wet Chemistry by Method 4500P E-2011	WG956370	1	03/01/17 13:20	03/01/17 14:44	MHM
Wet Chemistry by Method 9045D	WG955482	1	02/28/17 08:58	02/28/17 14:20	MA
Wet Chemistry by Method 9056A	WG955193	1	02/24/17 12:17	02/25/17 17:32	KCF

²Tc

³Ss

⁴Cn

036B LANDFARM 2 L891678-02 Solid

Collected by
Tom Hogelin

Collected date/time
02/21/17 13:30

Received date/time
02/22/17 09:00

⁵Sr

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 350.1	WG955363	1	02/24/17 12:05	02/27/17 10:32	JER
Wet Chemistry by Method 4500NOrg C-2011	WG956213	1	02/27/17 17:34	02/27/17 21:02	ASK
Wet Chemistry by Method 4500P E-2011	WG956370	1	03/01/17 13:20	03/01/17 14:44	MHM
Wet Chemistry by Method 9045D	WG955482	1	02/28/17 08:58	02/28/17 14:20	MA
Wet Chemistry by Method 9056A	WG955193	1	02/24/17 12:17	02/25/17 17:53	KCF

⁶Qc

⁷Gl

⁸Al

036B LANDFARM 3 L891678-03 Solid

Collected by
Tom Hogelin

Collected date/time
02/21/17 13:30

Received date/time
02/22/17 09:00

⁹Sc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 350.1	WG955363	1	02/24/17 12:05	02/27/17 10:33	JER
Wet Chemistry by Method 4500NOrg C-2011	WG956213	1	02/27/17 17:34	02/27/17 21:03	ASK
Wet Chemistry by Method 4500P E-2011	WG956370	1	03/01/17 13:20	03/01/17 14:45	MHM
Wet Chemistry by Method 9045D	WG955482	1	02/28/17 08:58	02/28/17 14:20	MA
Wet Chemistry by Method 9056A	WG955193	1	02/24/17 12:17	02/25/17 18:13	KCF
Wet Chemistry by Method 9056A	WG956132	5	02/28/17 17:09	03/01/17 09:56	SAM

036B LANDFARM 4 L891678-04 Solid

Collected by
Tom Hogelin

Collected date/time
02/21/17 13:30

Received date/time
02/22/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 350.1	WG955363	1	02/24/17 12:05	02/27/17 10:37	JER
Wet Chemistry by Method 4500NOrg C-2011	WG956213	5	02/27/17 17:34	02/27/17 21:13	ASK
Wet Chemistry by Method 4500P E-2011	WG956370	1	03/01/17 13:20	03/01/17 14:45	MHM
Wet Chemistry by Method 9045D	WG955482	1	02/28/17 08:58	02/28/17 14:20	MA
Wet Chemistry by Method 9056A	WG955193	1	02/24/17 12:17	02/25/17 13:47	KCF
Wet Chemistry by Method 9056A	WG956132	5	02/28/17 17:09	03/01/17 03:56	SAM



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.

Mark W. Beasley
Technical Service Representative

Sample Handling and Receiving

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L891678-01	036B LANDFARM 1	9045D
L891678-02	036B LANDFARM 2	9045D
L891678-03	036B LANDFARM 3	9045D
L891678-04	036B LANDFARM 4	9045D

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Ammonia Nitrogen	6.00		5.00	1	02/27/2017 10:30	WG955363

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Wet Chemistry by Method 4500N Org C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Kjeldahl Nitrogen, TKN	588	J3	20.0	1	02/27/2017 20:57	WG956213

Wet Chemistry by Method 4500P E-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Phosphate, Ortho	ND	J4	0.250	1	03/01/2017 14:44	WG956370

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.99		1	02/28/2017 14:20	WG955482

Sample Narrative:

9045D L891678-01 WG955482: 7.99 at 20.8c

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Nitrate as (N)	32.5		1.00	1	02/25/2017 17:32	WG955193
Phosphate as P	ND		1.00	1	02/25/2017 17:32	WG955193



Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	29.4		5.00	1	02/27/2017 10:32	WG955363

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Wet Chemistry by Method 4500N Org C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	704		20.0	1	02/27/2017 21:02	WG956213

Wet Chemistry by Method 4500P E-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Phosphate, Ortho	ND	J4	0.250	1	03/01/2017 14:44	WG956370

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
pH	9.27		1		02/28/2017 14:20	WG955482

Sample Narrative:

9045D L891678-02 WG955482: 9.27 at 20.5c

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate as (N)	90.5		1.00	1	02/25/2017 17:53	WG955193
Phosphate as P	ND		1.00	1	02/25/2017 17:53	WG955193



Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Ammonia Nitrogen	28.9		5.00	1	02/27/2017 10:33	WG955363

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Wet Chemistry by Method 4500N Org C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Kjeldahl Nitrogen, TKN	564		20.0	1	02/27/2017 21:03	WG956213

Wet Chemistry by Method 4500P E-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Phosphate, Ortho	ND	J4	0.250	1	03/01/2017 14:45	WG956370

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	su				date / time	
pH	8.37		1		02/28/2017 14:20	WG955482

Sample Narrative:

9045D L891678-03 WG955482: 8.37 at 20.5c

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Nitrate as (N)	123		5.00	5	03/01/2017 09:56	WG956132
Phosphate as P	ND		1.00	1	02/25/2017 18:13	WG955193



Wet Chemistry by Method 350.1

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	54.5	<u>J6</u>	5.00	1	02/27/2017 10:37	WG955363

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Wet Chemistry by Method 4500NOrg C-2011

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	794	<u>J6</u>	100	5	02/27/2017 21:13	WG956213

Wet Chemistry by Method 4500P E-2011

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Phosphate,Ortho	ND	<u>J4</u>	0.250	1	03/01/2017 14:45	WG956370

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	RDL	Dilution	Analysis date / time	Batch
pH	8.44		1		02/28/2017 14:20	WG955482

Sample Narrative:

9045D L891678-04 WG955482: 8.44 at 20.4c

Wet Chemistry by Method 9056A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Nitrate as (N)	172		5.00	5	03/01/2017 03:56	WG956132
Phosphate as P	ND	<u>J6</u>	1.00	1	02/25/2017 13:47	WG955193

Method Blank (MB)

(MB) R3199547-1 02/27/17 10:24				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Ammonia Nitrogen	U		1.57	5.00

L891678-03 Original Sample (OS) • Duplicate (DUP)

(OS) L891678-03 02/27/17 10:33 • (DUP) R3199547-4 02/27/17 10:34						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Ammonia Nitrogen	28.9	31.5	1	9		20

L891983-06 Original Sample (OS) • Duplicate (DUP)

(OS) L891983-06 02/27/17 10:53 • (DUP) R3199547-7 02/27/17 10:54						
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Ammonia Nitrogen	7.20	6.58	1	9		20

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

(LCS) R3199547-2 02/27/17 10:25 • (LCSD) R3199547-3 02/27/17 10:26										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Ammonia Nitrogen	500	515	475	103	95	90-110			8	20

L891678-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L891678-04 02/27/17 10:37 • (MS) R3199547-5 02/27/17 10:38 • (MSD) R3199547-6 02/27/17 10:39												
	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	%	%		%			%	%
Ammonia Nitrogen	500	54.5	436	437	76	77	1	80-120	J6	J6	0	20

L891984-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L891984-03 02/27/17 10:56 • (MS) R3199547-8 02/27/17 10:57							
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Ammonia Nitrogen	660	10.7	541	80	1	80-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3199700-1 02/27/17 20:48

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Kjeldahl Nitrogen, TKN	U		4.48	20.0

L891678-01 Original Sample (OS) • Duplicate (DUP)

(OS) L891678-01 02/27/17 20:57 • (DUP) R3199700-4 02/27/17 20:58

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Kjeldahl Nitrogen, TKN	588	732	1	22	J3	20

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

(LCS) R3199700-2 02/27/17 20:49 • (LCSD) R3199700-3 02/27/17 20:50

	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	%	%	%			%	%
Kjeldahl Nitrogen, TKN	400	388	397	97	99	50-150			2	20

L891678-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L891678-04 02/27/17 21:13 • (MS) R3199700-6 02/27/17 21:14

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Kjeldahl Nitrogen, TKN	80.0	794	840	12	5	90-110	J6

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3200246-1 03/01/17 14:43				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Phosphate,Ortho	U		0.0825	0.250

L891678-01 Original Sample (OS) • Duplicate (DUP)

(OS) L891678-01 03/01/17 14:44 • (DUP) R3200246-4 03/01/17 14:44						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Phosphate,Ortho	ND	0.120	1	0		20

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

(LCS) R3200246-2 03/01/17 14:43 • (LCSD) R3200246-3 03/01/17 14:44										
	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	%	%	%			%	%
Phosphate,Ortho	5.00	7.00	7.02	140	140	85-115	J4	J4	0	20

L891678-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L891678-02 03/01/17 14:44 • (MS) R3200246-5 03/01/17 14:44 • (MSD) R3200246-6 03/01/17 14:44												
	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	%	%		%			%	%
Phosphate,Ortho	5.00	ND	4.65	4.67	91	91	1	80-120			0	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



L891698-01 Original Sample (OS) • Duplicate (DUP)

(OS) L891698-01 02/28/17 14:20 • (DUP) WG955482-3 02/28/17 14:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.23	8.22	1	0.122		1

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L892213-04 Original Sample (OS) • Duplicate (DUP)

(OS) L892213-04 02/28/17 14:20 • (DUP) WG955482-4 02/28/17 14:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.58	8.61	1	0.349		1

⁷Gl

⁸Al

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

(LCS) WG955482-1 02/28/17 14:20 • (LCSD) WG955482-2 02/28/17 14:20

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	su	su	su	%	%	%			%	%
pH	6.07	6.07	6.06	100	99.8	98.4-102			0.165	1

⁹Sc

Method Blank (MB)

(MB) R3199457-1 02/25/17 08:41

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Nitrate	U		0.0116	1.00
Phosphate as P	U		0.0769	1.00

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L891394-01 Original Sample (OS) • Duplicate (DUP)

(OS) L891394-01 02/25/17 11:04 • (DUP) R3199457-4 02/25/17 11:24

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Nitrate	ND	103	10	0		15
Phosphate as P	3690	3780	10	2		15

L891698-03 Original Sample (OS) • Duplicate (DUP)

(OS) L891698-03 02/25/17 15:30 • (DUP) R3199457-7 02/25/17 18:34

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Phosphate as P	U	0	1	0		15

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

(LCS) R3199457-2 02/25/17 09:01 • (LCSD) R3199457-3 02/25/17 09:22

	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	%	%	%			%	%
Nitrate	20.0	19.0	18.8	95	94	80-120			1	15
Phosphate as P	20.0	18.5	17.9	93	89	80-120			3	15

L891678-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L891678-04 02/25/17 13:47 • (MS) R3199457-5 02/25/17 14:08 • (MSD) R3199457-6 02/25/17 14:28

	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	%	%		%			%	%
Nitrate	50.0	76.6	146	149	138	145	1	80-120	E J5	E J5	2	15
Phosphate as P	50.0	ND	12.8	11.9	25	23	1	80-120	J6	J6	7	15

Method Blank (MB)

(MB) R3200173-1 03/01/17 02:14

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Nitrate	U		0.0116	1.00

L892380-04 Original Sample (OS) • Duplicate (DUP)

(OS) L892380-04 03/01/17 04:17 • (DUP) R3200173-4 03/01/17 04:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Nitrate	U	0.171	1	17	J P1	15

L892586-01 Original Sample (OS) • Duplicate (DUP)

(OS) L892586-01 03/01/17 17:08 • (DUP) R3200173-7 03/01/17 17:28

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Nitrate	0.187	0.177	1	5	J	15

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

(LCS) R3200173-2 03/01/17 02:34 • (LCSD) R3200173-3 03/01/17 02:55

	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	%	%	%			%	%
Nitrate	20.0	19.3	19.2	96	96	80-120			0	15

L892586-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L892586-03 03/01/17 14:23 • (MS) R3200173-5 03/01/17 14:43 • (MSD) R3200173-6 03/01/17 15:04

	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	%	%		%			%	%
Nitrate	50.0	0.286	47.3	48.6	94	97	1	80-120			3	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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.
Rec.	Recovery.

Qualifier Description

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
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.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

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	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.**



