ANALYTICAL REPORT

April 29, 2025

Pace Analytical Services, LLC
2025.04.29 22:18:56 -05'00'
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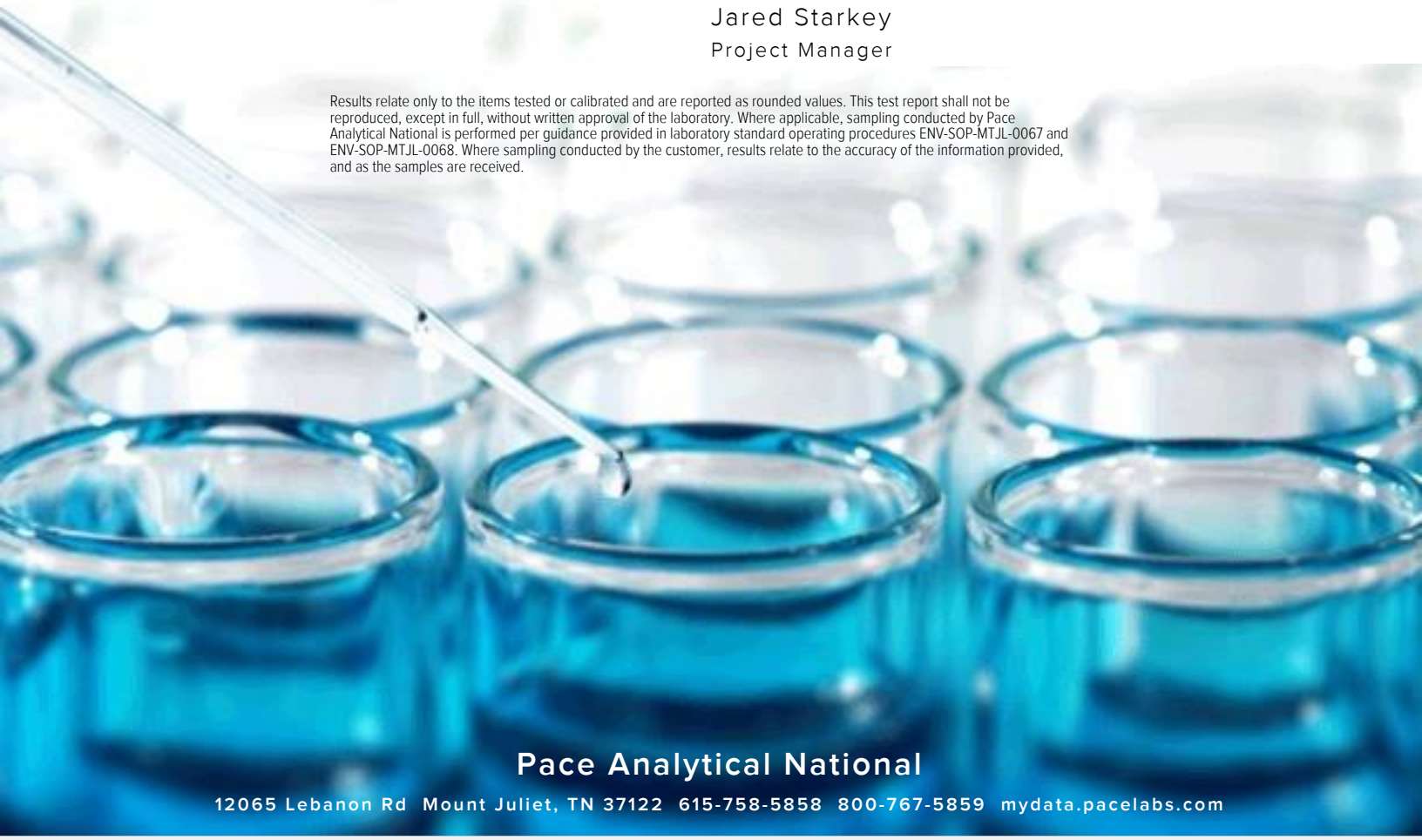
CTEH - ER

Sample Delivery Group:	L1850136
Samples Received:	04/20/2025
Project Number:	PROJ-054017
Description:	Bishop Loss of Containment Incident
Site:	CHEVRON GALETON, CO
Report To:	CTEH 5120 North Shore Drive North Little Rock, AR 72118

Entire Report Reviewed By:

Jared Starkey
Project Manager

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 Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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GACO0419BG006 L1850136-01 Solid

Collected by: D. Schroeder | Collected date/time: 04/19/25 08:36 | Received date/time: 04/20/25 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2496000	1	04/23/25 14:49	04/23/25 14:49	MAP	Mt. Juliet, TN
Calculated Results	WG2496582	1	04/23/25 10:55	04/27/25 14:50	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2495556	1	04/20/25 12:51	04/20/25 12:58	CMB	Mt. Juliet, TN
Wet Chemistry by Method 365.4M	WG2498208	5	04/23/25 10:55	04/23/25 16:19	KMB	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2496582	10	04/23/25 10:55	04/27/25 14:50	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2498150	1	04/23/25 13:50	04/23/25 17:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2498156	1	04/23/25 12:00	04/23/25 14:41	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2495370	1	04/20/25 15:40	04/21/25 23:26	ZSA	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2495614	5	04/20/25 13:58	04/21/25 16:39	JAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2498644	1	04/24/25 13:32	04/24/25 16:20	RLS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2495643	1	04/20/25 14:56	04/20/25 18:55	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2498649	1	04/24/25 08:06	04/24/25 12:39	RLS	Mt. Juliet, TN

GACO0419BG007 L1850136-02 Solid

Collected by: D. Schroeder | Collected date/time: 04/19/25 09:03 | Received date/time: 04/20/25 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2495984	1	04/22/25 23:06	04/22/25 23:06	BAG	Mt. Juliet, TN
Calculated Results	WG2496582	1	04/23/25 10:55	04/27/25 14:54	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2495556	1	04/20/25 12:51	04/20/25 12:58	CMB	Mt. Juliet, TN
Wet Chemistry by Method 365.4M	WG2498208	5	04/23/25 10:55	04/23/25 16:20	KMB	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2496582	10	04/23/25 10:55	04/27/25 14:54	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2500796	1	04/26/25 16:16	04/28/25 14:14	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2497370	1	04/22/25 17:02	04/22/25 18:30	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2495370	1	04/20/25 15:40	04/22/25 00:17	ZSA	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2495614	5	04/20/25 13:58	04/21/25 16:40	JAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2495995	1	04/22/25 12:16	04/22/25 22:25	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2498649	1	04/24/25 08:06	04/24/25 12:48	RLS	Mt. Juliet, TN

GACO0419BG008 L1850136-03 Solid

Collected by: D. Schroeder | Collected date/time: 04/19/25 09:38 | Received date/time: 04/20/25 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2495992	1	04/23/25 09:23	04/23/25 09:23	RLS	Mt. Juliet, TN
Calculated Results	WG2496582	1	04/23/25 10:55	04/27/25 14:17	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2495556	1	04/20/25 12:51	04/20/25 12:58	CMB	Mt. Juliet, TN
Wet Chemistry by Method 365.4M	WG2498208	2	04/23/25 10:55	04/23/25 16:22	KMB	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2496582	1	04/23/25 10:55	04/27/25 14:17	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2497623	1	04/23/25 07:31	04/23/25 10:01	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2497624	1	04/23/25 07:00	04/23/25 09:00	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2495370	1	04/20/25 15:40	04/22/25 00:30	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2495370	5	04/20/25 15:40	04/22/25 00:43	ZSA	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2495614	5	04/20/25 13:58	04/21/25 16:40	JAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2495995	1	04/22/25 12:16	04/22/25 22:28	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2498649	1	04/24/25 08:06	04/24/25 12:50	RLS	Mt. Juliet, TN

GACO0419BG009 L1850136-04 Solid

Collected by: D. Schroeder | Collected date/time: 04/19/25 10:03 | Received date/time: 04/20/25 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2496000	1	04/23/25 14:51	04/23/25 14:51	MAP	Mt. Juliet, TN
Calculated Results	WG2496582	1	04/23/25 10:55	04/27/25 14:18	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2495556	1	04/20/25 12:51	04/20/25 12:58	CMB	Mt. Juliet, TN

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

GACO0419BG009 L1850136-04 Solid

Collected by: D. Schroeder | Collected date/time: 04/19/25 10:03 | Received date/time: 04/20/25 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 365.4M	WG2498208	2	04/23/25 10:55	04/23/25 16:23	KMB	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2496582	1	04/23/25 10:55	04/27/25 14:18	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2498150	1	04/23/25 13:50	04/23/25 17:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2498156	1	04/23/25 12:00	04/23/25 14:41	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2495370	1	04/20/25 15:40	04/22/25 01:21	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2495370	5	04/20/25 15:40	04/22/25 17:21	DLH	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2495614	5	04/20/25 13:58	04/21/25 16:41	JAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2498644	1	04/24/25 13:32	04/24/25 16:22	RLS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2498649	1	04/24/25 08:06	04/24/25 12:51	RLS	Mt. Juliet, TN

GACO0419BG010 L1850136-05 Solid

Collected by: D. Schroeder | Collected date/time: 04/19/25 10:56 | Received date/time: 04/20/25 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2496000	1	04/23/25 14:52	04/23/25 14:52	MAP	Mt. Juliet, TN
Calculated Results	WG2496582	1	04/23/25 10:55	04/27/25 14:55	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2495556	1	04/20/25 12:51	04/20/25 12:58	CMB	Mt. Juliet, TN
Wet Chemistry by Method 365.4M	WG2498208	5	04/23/25 10:55	04/23/25 16:24	KMB	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2496582	10	04/23/25 10:55	04/27/25 14:55	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2498150	1	04/23/25 13:50	04/23/25 17:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2498156	1	04/23/25 12:00	04/23/25 14:41	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2495370	1	04/20/25 15:40	04/22/25 01:34	ZSA	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2495614	5	04/20/25 13:58	04/21/25 16:41	JAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2498644	5	04/24/25 13:32	04/24/25 16:24	RLS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2498649	1	04/24/25 08:06	04/24/25 12:58	RLS	Mt. Juliet, TN

GACO0419BG011 L1850136-06 Solid

Collected by: D. Schroeder | Collected date/time: 04/19/25 11:28 | Received date/time: 04/20/25 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2496000	1	04/23/25 14:54	04/23/25 14:54	MAP	Mt. Juliet, TN
Calculated Results	WG2496582	1	04/23/25 10:55	04/27/25 14:57	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2495556	1	04/20/25 12:51	04/20/25 12:58	CMB	Mt. Juliet, TN
Wet Chemistry by Method 365.4M	WG2498208	4	04/23/25 10:55	04/23/25 16:36	KMB	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2496582	10	04/23/25 10:55	04/27/25 14:57	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2498150	1	04/23/25 13:50	04/23/25 17:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2498156	1	04/23/25 12:00	04/23/25 14:41	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2495370	1	04/20/25 15:40	04/22/25 01:47	ZSA	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2495614	5	04/20/25 13:58	04/21/25 16:41	JAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2498644	1	04/24/25 13:32	04/24/25 16:25	RLS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2498649	1	04/24/25 08:06	04/24/25 13:00	RLS	Mt. Juliet, TN

GACO0419BG012 L1850136-07 Solid

Collected by: D. Schroeder | Collected date/time: 04/19/25 13:17 | Received date/time: 04/20/25 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2496000	1	04/23/25 14:32	04/23/25 14:32	MAP	Mt. Juliet, TN
Calculated Results	WG2496582	1	04/23/25 10:55	04/27/25 14:22	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2495556	1	04/20/25 12:51	04/20/25 12:58	CMB	Mt. Juliet, TN
Wet Chemistry by Method 365.4M	WG2498208	2	04/23/25 10:55	04/23/25 16:27	KMB	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2496582	1	04/23/25 10:55	04/27/25 14:22	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2498150	1	04/23/25 13:50	04/23/25 17:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2498156	1	04/23/25 12:00	04/23/25 14:41	RJP	Mt. Juliet, TN

GACO0419BG012 L1850136-07 Solid

Collected by: D. Schroeder
Collected date/time: 04/19/25 13:17
Received date/time: 04/20/25 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2495370	1	04/20/25 15:40	04/22/25 02:00	ZSA	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2495614	2	04/20/25 13:58	04/21/25 16:42	JAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2498644	1	04/24/25 13:32	04/24/25 16:27	RLS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2498649	1	04/24/25 08:06	04/24/25 13:02	RLS	Mt. Juliet, TN

GACO0419BG013 L1850136-08 Solid

Collected by: D. Schroeder
Collected date/time: 04/19/25 13:30
Received date/time: 04/20/25 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2496000	1	04/23/25 14:33	04/23/25 14:33	MAP	Mt. Juliet, TN
Calculated Results	WG2496582	1	04/23/25 10:55	04/27/25 14:58	AEC	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2495556	1	04/20/25 12:51	04/20/25 12:58	CMB	Mt. Juliet, TN
Wet Chemistry by Method 365.4M	WG2498208	2	04/23/25 10:55	04/23/25 16:28	KMB	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2496582	10	04/23/25 10:55	04/27/25 14:58	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2498150	1	04/23/25 13:50	04/23/25 17:00	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2498156	1	04/23/25 12:00	04/23/25 14:41	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2495370	1	04/20/25 15:40	04/22/25 02:13	ZSA	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2495614	5	04/20/25 13:58	04/21/25 16:48	JAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2498644	5	04/24/25 13:32	04/24/25 16:29	RLS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2498649	1	04/24/25 08:06	04/24/25 13:03	RLS	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, 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.

Jared Starkey
Project Manager

Sample Delivery Group (SDG) Narrative

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

Batch	Method	Lab Sample ID
WG2497623	9045D	L1850136-03
WG2498150	9045D	L1850136-01, 04, 05, 06, 07, 08
WG2500796	9045D	L1850136-02

Wet Chemistry by Method 4500NOrg D-2021

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2496582	(MS) R4205845-8, (MSD) R4205845-14	Kjeldahl Nitrogen, TKN

Wet Chemistry by Method 9056A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2495370	(MS) R4203269-4, (MSD) R4203269-5, L1850136-01	Fluoride and Nitrate as (N)

Metals (ICP) by Method 6010D

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2495643	(MS) R4202377-5, (MS) R4202377-8, (MSD) R4202377-6, L1850136-01	Calcium

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2495643	(MS) R4202377-8, (MSD) R4202377-9, L1850136-01	Iron, Magnesium and Potassium
WG2498649	(MS) R4204640-5, (MSD) R4204640-6	Iron, Magnesium, Manganese and Potassium

Metals (ICP) by Method 6010D

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2495643	(MSD) R4202377-6	Iron

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.41		1	04/23/2025 14:49	WG2496000

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	1120000		726	24000	1	04/27/2025 14:50	WG2496582

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.5		1	04/20/2025 12:58	WG2495556

Wet Chemistry by Method 365.4M

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Phosphorus,Total	601000		95800	120000	5	04/23/2025 16:19	WG2498208

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	1070000		182000	240000	10	04/27/2025 14:50	WG2496582

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.80	T8	1	04/23/2025 17:00	WG2498150

Sample Narrative:
L1850136-01 WG2498150: 7.8 at 22.3C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	807	umhos/cm		10.0	1	04/23/2025 14:41	WG2498156

Sample Narrative:
L1850136-01 WG2498156: at 25C

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromide	U		4910	12000	1	04/21/2025 23:26	WG2495370
Chloride	75600		7600	24000	1	04/21/2025 23:26	WG2495370
Fluoride	1720	J J6	846	2400	1	04/21/2025 23:26	WG2495370
Nitrate as (N)	50500	J6	1140	12000	1	04/21/2025 23:26	WG2495370
Nitrite as (N)	U		726	12000	1	04/21/2025 23:26	WG2495370
Sulfate	114000		9870	59900	1	04/21/2025 23:26	WG2495370

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	17500000		128000	500000	5	04/21/2025 16:39	WG2495614

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hot Water Sol. Boron	1260		16.7	200	1	04/24/2025 16:20	WG2498644

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	ug/kg		ug/kg	ug/kg		date / time	
Calcium	13600000	V	22800	120000	1	04/20/2025 18:55	WG2495643
Iron	2300000	J5	2680	12000	1	04/20/2025 18:55	WG2495643
Magnesium	2490000	J5	23800	120000	1	04/20/2025 18:55	WG2495643
Manganese	287000		207	1200	1	04/20/2025 18:55	WG2495643
Potassium	1630000	J5	25000	120000	1	04/20/2025 18:55	WG2495643
Sodium	452000		49300	120000	1	04/24/2025 12:39	WG2498649

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.67		1	04/22/2025 23:06	WG2495984

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	1570000		703	11600	1	04/27/2025 14:54	WG2496582

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.2		1	04/20/2025 12:58	WG2495556

Wet Chemistry by Method 365.4M

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Phosphorus,Total	778000		92800	116000	5	04/23/2025 16:20	WG2498208

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	1570000		176000	232000	10	04/27/2025 14:54	WG2496582

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.04	T8	1	04/28/2025 14:14	WG2500796

Sample Narrative:

L1850136-02 WG2500796: 7.04 at 22.8C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	1430	umhos/cm		10.0	1	04/22/2025 18:30	WG2497370

Sample Narrative:

L1850136-02 WG2497370: at 25C

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromide	U		4750	11600	1	04/22/2025 00:17	WG2495370
Chloride	14400	J	7360	23200	1	04/22/2025 00:17	WG2495370
Fluoride	823	J	819	2320	1	04/22/2025 00:17	WG2495370
Nitrate as (N)	3970	J	1100	11600	1	04/22/2025 00:17	WG2495370
Nitrite as (N)	U		703	11600	1	04/22/2025 00:17	WG2495370
Sulfate	444000		9560	58000	1	04/22/2025 00:17	WG2495370

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	22500000		128000	500000	5	04/21/2025 16:40	WG2495614

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hot Water Sol. Boron	1510		16.7	200	1	04/22/2025 22:25	WG2495995

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	ug/kg		ug/kg	ug/kg		date / time	
Calcium	14300000		22000	116000	1	04/24/2025 12:48	WG2498649
Iron	5670000		2600	11600	1	04/24/2025 12:48	WG2498649
Magnesium	2790000		23100	116000	1	04/24/2025 12:48	WG2498649
Manganese	269000		201	1160	1	04/24/2025 12:48	WG2498649
Potassium	2570000		24200	116000	1	04/24/2025 12:48	WG2498649
Sodium	220000		47800	116000	1	04/24/2025 12:48	WG2498649

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.64		1	04/23/2025 09:23	WG2495992

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	718000		668	11000	1	04/27/2025 14:17	WG2496582

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.7		1	04/20/2025 12:58	WG2495556

Wet Chemistry by Method 365.4M

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Phosphorus,Total	368000		35300	44100	2	04/23/2025 16:22	WG2498208

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	598000		16800	22000	1	04/27/2025 14:17	WG2496582

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.79	T8	1	04/23/2025 10:01	WG2497623

Sample Narrative:

L1850136-03 WG2497623: 7.79 at 21.4C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	3100	umhos/cm		10.0	1	04/23/2025 09:00	WG2497624

Sample Narrative:

L1850136-03 WG2497624: at 25C

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromide	U		4520	11000	1	04/22/2025 00:30	WG2495370
Chloride	132000		7000	22000	1	04/22/2025 00:30	WG2495370
Fluoride	2230		778	2200	1	04/22/2025 00:30	WG2495370
Nitrate as (N)	120000		5250	55100	5	04/22/2025 00:43	WG2495370
Nitrite as (N)	U		668	11000	1	04/22/2025 00:30	WG2495370
Sulfate	1270000		45400	276000	5	04/22/2025 00:43	WG2495370

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	9220000		128000	500000	5	04/21/2025 16:40	WG2495614

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hot Water Sol. Boron	1060		16.7	200	1	04/22/2025 22:28	WG2495995

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	ug/kg		ug/kg	ug/kg		date / time	
Calcium	7200000		20900	110000	1	04/24/2025 12:50	WG2498649
Iron	4400000		2470	11000	1	04/24/2025 12:50	WG2498649
Magnesium	2070000		21900	110000	1	04/24/2025 12:50	WG2498649
Manganese	167000		191	1100	1	04/24/2025 12:50	WG2498649
Potassium	1360000		23000	110000	1	04/24/2025 12:50	WG2498649
Sodium	514000		45400	110000	1	04/24/2025 12:50	WG2498649

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.43		1	04/23/2025 14:51	WG2496000

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	536000		691	11400	1	04/27/2025 14:18	WG2496582

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.6		1	04/20/2025 12:58	WG2495556

Wet Chemistry by Method 365.4M

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Phosphorus,Total	385000		36500	45600	2	04/23/2025 16:23	WG2498208

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	500000		17300	22800	1	04/27/2025 14:18	WG2496582

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.93	T8	1	04/23/2025 17:00	WG2498150

Sample Narrative:

L1850136-04 WG2498150: 7.93 at 22.4C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	2110	umhos/cm		10.0	1	04/23/2025 14:41	WG2498156

Sample Narrative:

L1850136-04 WG2498156: at 25C

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromide	U		4680	11400	1	04/22/2025 01:21	WG2495370
Chloride	50100		7250	22800	1	04/22/2025 01:21	WG2495370
Fluoride	4190		806	2280	1	04/22/2025 01:21	WG2495370
Nitrate as (N)	36000		1090	11400	1	04/22/2025 01:21	WG2495370
Nitrite as (N)	U		691	11400	1	04/22/2025 01:21	WG2495370
Sulfate	1600000		47000	285000	5	04/22/2025 17:21	WG2495370

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	10400000		128000	500000	5	04/21/2025 16:41	WG2495614

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hot Water Sol. Boron	1630		16.7	200	1	04/24/2025 16:22	WG2498644

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	ug/kg		ug/kg	ug/kg		date / time	
Calcium	20500000		21700	114000	1	04/24/2025 12:51	WG2498649
Iron	5360000		2560	11400	1	04/24/2025 12:51	WG2498649
Magnesium	2810000		22700	114000	1	04/24/2025 12:51	WG2498649
Manganese	180000		197	1140	1	04/24/2025 12:51	WG2498649
Potassium	1300000		23800	114000	1	04/24/2025 12:51	WG2498649
Sodium	261000		47000	114000	1	04/24/2025 12:51	WG2498649

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.272		1	04/23/2025 14:52	WG2496000

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	1140000		685	11300	1	04/27/2025 14:55	WG2496582

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.5		1	04/20/2025 12:58	WG2495556

Wet Chemistry by Method 365.4M

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Phosphorus,Total	596000		90400	113000	5	04/23/2025 16:24	WG2498208

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	1140000		172000	226000	10	04/27/2025 14:55	WG2496582

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.90	T8	1	04/23/2025 17:00	WG2498150

Sample Narrative:

L1850136-05 WG2498150: 7.9 at 22.3C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	415	umhos/cm		10.0	1	04/23/2025 14:41	WG2498156

Sample Narrative:

L1850136-05 WG2498156: at 25C

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromide	U		4630	11300	1	04/22/2025 01:34	WG2495370
Chloride	26200		7180	22600	1	04/22/2025 01:34	WG2495370
Fluoride	U		798	2260	1	04/22/2025 01:34	WG2495370
Nitrate as (N)	3140	J	1080	11300	1	04/22/2025 01:34	WG2495370
Nitrite as (N)	U		685	11300	1	04/22/2025 01:34	WG2495370
Sulfate	27300	J	9310	56500	1	04/22/2025 01:34	WG2495370

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	16700000		128000	500000	5	04/21/2025 16:41	WG2495614

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hot Water Sol. Boron	857	J	83.5	1000	5	04/24/2025 16:24	WG2498644

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	ug/kg		ug/kg	ug/kg		date / time	
Calcium	11700000		21500	113000	1	04/24/2025 12:58	WG2498649
Iron	4750000		2530	11300	1	04/24/2025 12:58	WG2498649
Magnesium	1980000		22500	113000	1	04/24/2025 12:58	WG2498649
Manganese	176000		196	1130	1	04/24/2025 12:58	WG2498649
Potassium	1590000		23600	113000	1	04/24/2025 12:58	WG2498649
Sodium	113000		46600	113000	1	04/24/2025 12:58	WG2498649

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.992		1	04/23/2025 14:54	WG2496000

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	728000		678	11200	1	04/27/2025 14:57	WG2496582

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	04/20/2025 12:58	WG2495556

Wet Chemistry by Method 365.4M

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Phosphorus,Total	492000		71600	89400	4	04/23/2025 16:36	WG2498208

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	697000		170000	224000	10	04/27/2025 14:57	WG2496582

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.69	T8	1	04/23/2025 17:00	WG2498150

Sample Narrative:

L1850136-06 WG2498150: 7.69 at 22.2C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	1520	umhos/cm		10.0	1	04/23/2025 14:41	WG2498156

Sample Narrative:

L1850136-06 WG2498156: at 25C

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromide	U		4580	11200	1	04/22/2025 01:47	WG2495370
Chloride	24200		7100	22400	1	04/22/2025 01:47	WG2495370
Fluoride	U		789	2240	1	04/22/2025 01:47	WG2495370
Nitrate as (N)	30600		1060	11200	1	04/22/2025 01:47	WG2495370
Nitrite as (N)	1150	J	678	11200	1	04/22/2025 01:47	WG2495370
Sulfate	110000		9210	55900	1	04/22/2025 01:47	WG2495370

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	9530000		128000	500000	5	04/21/2025 16:41	WG2495614

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hot Water Sol. Boron	1100		16.7	200	1	04/24/2025 16:25	WG2498644

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	ug/kg		ug/kg	ug/kg		date / time	
Calcium	4680000		21200	112000	1	04/24/2025 13:00	WG2498649
Iron	3960000		2500	11200	1	04/24/2025 13:00	WG2498649
Magnesium	1900000		22200	112000	1	04/24/2025 13:00	WG2498649
Manganese	172000		193	1120	1	04/24/2025 13:00	WG2498649
Potassium	1550000		23400	112000	1	04/24/2025 13:00	WG2498649
Sodium	248000		46100	112000	1	04/24/2025 13:00	WG2498649

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.58		1	04/23/2025 14:32	WG2496000

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	318000		658	10900	1	04/27/2025 14:22	WG2496582

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.0		1	04/20/2025 12:58	WG2495556

Wet Chemistry by Method 365.4M

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Phosphorus,Total	351000		34800	43500	2	04/23/2025 16:27	WG2498208

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	307000		16500	21700	1	04/27/2025 14:22	WG2496582

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.77	T8	1	04/23/2025 17:00	WG2498150

Sample Narrative:

L1850136-07 WG2498150: 7.77 at 22.1C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	1600	umhos/cm		10.0	1	04/23/2025 14:41	WG2498156

Sample Narrative:

L1850136-07 WG2498156: at 25C

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromide	U		4450	10900	1	04/22/2025 02:00	WG2495370
Chloride	131000		6900	21700	1	04/22/2025 02:00	WG2495370
Fluoride	5420		767	2170	1	04/22/2025 02:00	WG2495370
Nitrate as (N)	11700		1030	10900	1	04/22/2025 02:00	WG2495370
Nitrite as (N)	U		658	10900	1	04/22/2025 02:00	WG2495370
Sulfate	685000		8950	54300	1	04/22/2025 02:00	WG2495370

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	3690000		51000	200000	2	04/21/2025 16:42	WG2495614

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hot Water Sol. Boron	326		16.7	200	1	04/24/2025 16:27	WG2498644

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	ug/kg		ug/kg	ug/kg		date / time	
Calcium	85700000		20600	109000	1	04/24/2025 13:02	WG2498649
Iron	8980000		2430	10900	1	04/24/2025 13:02	WG2498649
Magnesium	2560000		21600	109000	1	04/24/2025 13:02	WG2498649
Manganese	453000		188	1090	1	04/24/2025 13:02	WG2498649
Potassium	856000		22700	109000	1	04/24/2025 13:02	WG2498649
Sodium	218000		44800	109000	1	04/24/2025 13:02	WG2498649

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.23		1	04/23/2025 14:33	WG2496000

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	1620000		670	11100	1	04/27/2025 14:58	WG2496582

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.4		1	04/20/2025 12:58	WG2495556

Wet Chemistry by Method 365.4M

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Phosphorus,Total	419000		35400	44300	2	04/23/2025 16:28	WG2498208

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	1580000		168000	221000	10	04/27/2025 14:58	WG2496582

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.85	T8	1	04/23/2025 17:00	WG2498150

Sample Narrative:

L1850136-08 WG2498150: 7.85 at 21.9C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	918	umhos/cm		10.0	1	04/23/2025 14:41	WG2498156

Sample Narrative:

L1850136-08 WG2498156: at 25C

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	MDL (dry) ug/kg	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromide	U		4540	11100	1	04/22/2025 02:13	WG2495370
Chloride	14700	J	7030	22100	1	04/22/2025 02:13	WG2495370
Fluoride	U		781	2210	1	04/22/2025 02:13	WG2495370
Nitrate as (N)	33000		1050	11100	1	04/22/2025 02:13	WG2495370
Nitrite as (N)	U		670	11100	1	04/22/2025 02:13	WG2495370
Sulfate	23100	J	9120	55300	1	04/22/2025 02:13	WG2495370

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	MDL ug/kg	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	32900000		128000	500000	5	04/21/2025 16:48	WG2495614

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hot Water Sol. Boron	1350		83.5	1000	5	04/24/2025 16:29	WG2498644

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	ug/kg		ug/kg	ug/kg		date / time	
Calcium	9070000		21000	111000	1	04/24/2025 13:03	WG2498649
Iron	3110000		2480	11100	1	04/24/2025 13:03	WG2498649
Magnesium	1730000		22000	111000	1	04/24/2025 13:03	WG2498649
Manganese	138000		191	1110	1	04/24/2025 13:03	WG2498649
Potassium	1530000		23100	111000	1	04/24/2025 13:03	WG2498649
Sodium	230000		45600	111000	1	04/24/2025 13:03	WG2498649

Method Blank (MB)

(MB) R4202324-1 04/20/25 12:58

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00400			

L1850136-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1850136-01 04/20/25 12:58 • (DUP) R4202324-3 04/20/25 12:58

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.5	83.9	1	0.494		10

Laboratory Control Sample (LCS)

(LCS) R4202324-2 04/20/25 12:58

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4204014-3 04/23/25 16:01

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Phosphorus,Total	U		16000	20000

L1849550-31 Original Sample (OS) • Duplicate (DUP)

(OS) L1849550-31 04/23/25 16:07 • (DUP) R4204014-5 04/23/25 16:09

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphorus,Total	565000	596000	5	5.36		25

L1849550-33 Original Sample (OS) • Duplicate (DUP)

(OS) L1849550-33 04/23/25 16:11 • (DUP) R4204014-6 04/23/25 16:13

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphorus,Total	535000	565000	5	5.43		25

Laboratory Control Sample (LCS)

(LCS) R4204014-4 04/23/25 16:02

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	67400	68000	101	85.0-115	

L1849170-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849170-01 04/23/25 16:32 • (MS) R4204014-7 04/23/25 16:33 • (MSD) R4204014-8 04/23/25 16:34

Analyte	Spike Amount (dry) ug/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus,Total	1120000	40000000	41100000	40800000	104	70.2	40	50.0-150			0.924	25

QUALITY CONTROL SUMMARY

L1850136-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R4205845-1 04/27/25 13:45

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Kjeldahl Nitrogen, TKN	U		15200	20000

L1849550-31 Original Sample (OS) • Duplicate (DUP)

(OS) L1849550-31 04/27/25 14:43 • (DUP) R4205845-11 04/27/25 14:44

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	1370000	1440000	10	4.51		20

L1849550-33 Original Sample (OS) • Duplicate (DUP)

(OS) L1849550-33 04/27/25 14:45 • (DUP) R4205845-12 04/27/25 14:46

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	1330000	1430000	10	7.43		20

Laboratory Control Sample (LCS)

(LCS) R4205845-2 04/27/25 13:47

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	240000	236000	98.3	81.7-124	

L1848643-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1848643-01 04/27/25 14:27 • (MS) R4205845-8 04/27/25 14:29

Analyte	Spike Amount (dry) ug/kg	Original Result (dry)	MS Result (dry)	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Kjeldahl Nitrogen, TKN	580000	5490000	6430000	163	10	81.7-124	V

L1849170-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1849170-01 04/27/25 14:59 • (MS) R4205845-13 04/27/25 15:00 • (MSD) R4205845-14 04/27/25 15:02

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Kjeldahl Nitrogen, TKN	2240000	53700000	56300000	55500000	120	80.8	20	81.7-124		V	1.57	20

L1848313-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1848313-01 04/23/25 10:01 • (DUP) R4203717-2 04/23/25 10:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	pH	su		%		%
pH	8.32	8.34	1	0.240		1

Sample Narrative:

OS: 8.32 at 21.3C

DUP: 8.34 at 21.3C

Laboratory Control Sample (LCS)

(LCS) R4203717-1 04/23/25 10:01

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.01 at 20.8C

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

L1850136-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1850136-01 04/23/25 17:00 • (DUP) R4204127-2 04/23/25 17:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.80	7.80	1	0.000		1

Sample Narrative:

OS: 7.8 at 22.3C

DUP: 7.8 at 22.4C

Laboratory Control Sample (LCS)

(LCS) R4204127-1 04/23/25 17:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.98	99.8	99.0-101	

Sample Narrative:

LCS: 9.98 at 21.7C

L1850520-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1850520-08 04/28/25 14:14 • (DUP) R4206376-2 04/28/25 14:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.85	7.85	1	0.000		1

Sample Narrative:

OS: 7.85 at 22.9C

DUP: 7.85 at 22.8C

Laboratory Control Sample (LCS)

(LCS) R4206376-1 04/28/25 14:14

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.99	99.9	99.0-101	

Sample Narrative:

LCS: 9.99 at 21.9C

Method Blank (MB)

(MB) R4203501-1 04/22/25 18:30

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:
BLANK: at 25C

L1848320-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1848320-01 04/22/25 18:30 • (DUP) R4203501-3 04/22/25 18:30

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	981	966	1	1.54		20

Sample Narrative:
OS: at 25C
DUP: at 25C

L1850136-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1850136-02 04/22/25 18:30 • (DUP) R4203501-4 04/22/25 18:30

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	1430	1410	1	0.846		20

Sample Narrative:
OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4203501-2 04/22/25 18:30

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1130	1140	101	85.0-115	

Sample Narrative:
LCS: at 25C

Method Blank (MB)

(MB) R4203703-1 04/23/25 09:00

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:
BLANK: at 25C

L1848314-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1848314-01 04/23/25 09:00 • (DUP) R4203703-3 04/23/25 09:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	224	225	1	0.490		20

Sample Narrative:
OS: at 25C
DUP: at 25C

L1849550-32 Original Sample (OS) • Duplicate (DUP)

(OS) L1849550-32 04/23/25 09:00 • (DUP) R4203703-4 04/23/25 09:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	426	422	1	0.943		20

Sample Narrative:
OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4203703-2 04/23/25 09:00

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1130	1090	96.5	85.0-115	

Sample Narrative:
LCS: at 25C

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

Method Blank (MB)

(MB) R4203944-1 04/23/25 14:41

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:
BLANK: at 25C

L1849550-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1849550-11 04/23/25 14:41 • (DUP) R4203944-3 04/23/25 14:41

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	313	316	1	0.954		20

Sample Narrative:
OS: at 25C
DUP: at 25C

L1850136-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1850136-08 04/23/25 14:41 • (DUP) R4203944-4 04/23/25 14:41

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	918	910	1	0.875		20

Sample Narrative:
OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4203944-2 04/23/25 14:41

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1130	1050	92.7	85.0-115	

Sample Narrative:
LCS: at 25C

QUALITY CONTROL SUMMARY

L1850136-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R4203269-1 04/21/25 21:43

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Bromide	U		4100	10000
Chloride	U		6350	20000
Fluoride	U		706	2000
Nitrate as (N)	U		952	10000
Nitrite as (N)	U		606	10000
Sulfate	U		8240	50000

L1850136-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1850136-01 04/21/25 23:26 • (DUP) R4203269-3 04/21/25 23:38

Analyte	Original Result (dry) ug/kg	DUP Result (dry) ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Bromide	U	U	1	0.000		15
Chloride	75600	74100	1	1.98		15
Fluoride	1720	1700	1	1.01	J	15
Nitrate as (N)	50500	49500	1	1.99		15
Nitrite as (N)	U	U	1	0.000		15
Sulfate	114000	104000	1	8.65		15

Laboratory Control Sample (LCS)

(LCS) R4203269-2 04/21/25 21:56

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromide	200000	191000	95.5	80.0-120	
Chloride	200000	197000	98.3	80.0-120	
Fluoride	20000	18200	91.1	80.0-120	
Nitrate as (N)	20000	17700	88.6	80.0-120	
Nitrite as (N)	20000	20300	101	80.0-120	
Sulfate	200000	196000	98.0	80.0-120	

L1850136-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1850136-01 04/21/25 23:26 • (MS) R4203269-4 04/21/25 23:51 • (MSD) R4203269-5 04/22/25 00:04

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Bromide	240000	U	224000	217000	93.4	90.7	1	80.0-120			3.00	15
Chloride	240000	75600	315000	301000	99.9	93.9	1	80.0-120			4.64	15
Fluoride	24000	1720	17700	17100	66.7	64.2	1	80.0-120	J6	J6	3.35	15
Nitrate as (N)	24000	50500	72200	68800	90.7	76.3	1	80.0-120		J6	4.92	15
Nitrite as (N)	24000	U	23600	23100	98.5	96.5	1	80.0-120			2.08	15
Sulfate	240000	114000	338000	328000	93.6	89.4	1	80.0-120			3.01	15

Method Blank (MB)

(MB) R4202841-1 04/21/25 16:38

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
TOC By Walkley Black	U		25500	100000

L1850136-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1850136-01 04/21/25 16:39 • (DUP) R4202841-4 04/21/25 16:39

Analyte	Original Result ug/kg	DUP Result ug/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC By Walkley Black	17500000	21200000	5	19.1		20

Laboratory Control Sample (LCS)

(LCS) R4202841-3 04/21/25 16:38

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC By Walkley Black	3230000	3410000	105	75.0-144	

L1850136-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1850136-07 04/21/25 16:42 • (MS) R4202841-5 04/21/25 16:43 • (MSD) R4202841-6 04/21/25 16:48

Analyte	Spike Amount ug/kg	Original Result ug/kg	MS Result ug/kg	MSD Result ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC By Walkley Black	8000000	3690000	12500000	12600000	110	112	2	80.0-120			1.21	20

Method Blank (MB)

(MB) R4203600-1 04/22/25 21:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Hot Water Sol. Boron	U		16.7	200

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

(LCS) R4203600-2 04/22/25 21:49 • (LCSD) R4203600-3 04/22/25 21:51

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Hot Water Sol. Boron	1000	1070	1050	107	105	80.0-120			1.87	20

Method Blank (MB)

(MB) R4204676-1 04/24/25 16:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Hot Water Sol. Boron	U		16.7	200

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

(LCS) R4204676-2 04/24/25 16:15 • (LCSD) R4204676-3 04/24/25 16:17

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Hot Water Sol. Boron	1000	1070	1070	107	107	80.0-120			0.123	20

Method Blank (MB)

(MB) R4202377-1 04/20/25 18:44

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Calcium	U		19000	100000
Iron	U		2240	10000
Magnesium	U		19900	100000
Manganese	U		173	1000
Potassium	U		20900	100000

Laboratory Control Sample (LCS)

(LCS) R4202377-10 04/20/25 20:01

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	1000000	1110000	111	80.0-120	
Iron	1000000	1110000	111	80.0-120	
Magnesium	1000000	1050000	105	80.0-120	
Manganese	100000	118000	118	80.0-120	
Potassium	1000000	1070000	107	80.0-120	

L1850135-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1850135-01 04/20/25 18:47 • (MS) R4202377-5 04/20/25 18:52 • (MSD) R4202377-6 04/20/25 18:54

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	1170000	11500000	13400000	13500000	161	174	1	75.0-125	V	V	1.14	20
Iron	1170000	2840000	4200000	3560000	116	62.2	1	75.0-125		J6	16.3	20
Magnesium	1170000	2310000	3630000	3370000	113	90.7	1	75.0-125			7.58	20
Manganese	117000	258000	378000	382000	103	106	1	75.0-125			1.11	20
Potassium	1170000	1480000	2530000	2420000	89.5	80.5	1	75.0-125			4.26	20

L1850136-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1850136-01 04/20/25 18:55 • (MS) R4202377-8 04/20/25 18:59 • (MSD) R4202377-9 04/20/25 19:04

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	1200000	13600000	15200000	15000000	130	112	1	75.0-125	V		1.42	20
Iron	1200000	2300000	5460000	4860000	263	213	1	75.0-125	J5	J5	11.6	20
Magnesium	1200000	2490000	4360000	4130000	156	137	1	75.0-125	J5	J5	5.40	20
Manganese	120000	287000	423000	426000	113	115	1	75.0-125			0.619	20

L1850136-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1850136-01 04/20/25 18:55 • (MS) R4202377-8 04/20/25 18:59 • (MSD) R4202377-9 04/20/25 19:04

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	ug/kg	%	%		%			%	%
Potassium	1200000	1630000	3150000	3000000	127	115	1	75.0-125	J5		4.73	20

Method Blank (MB)

(MB) R4204640-1 04/24/25 12:36

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Calcium	U		19000	100000
Iron	U		2240	10000
Magnesium	U		19900	100000
Manganese	U		173	1000
Potassium	U		20900	100000
Sodium	U		41200	100000

Laboratory Control Sample (LCS)

(LCS) R4204640-2 04/24/25 12:38

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	1000000	985000	98.5	80.0-120	
Iron	1000000	992000	99.2	80.0-120	
Magnesium	1000000	961000	96.1	80.0-120	
Manganese	100000	104000	104	80.0-120	
Potassium	1000000	965000	96.5	80.0-120	
Sodium	1000000	1000000	100	80.0-120	

L1850136-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1850136-01 04/24/25 12:39 • (MS) R4204640-5 04/24/25 12:45 • (MSD) R4204640-6 04/24/25 12:46

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	1200000	14000000	15000000	15400000	81.1	121	1	75.0-125			3.14	20
Iron	1200000	4320000	6930000	7610000	219	275	1	75.0-125	J5	J5	9.30	20
Magnesium	1200000	3170000	4810000	5140000	137	165	1	75.0-125	J5	J5	6.60	20
Manganese	120000	266000	416000	469000	125	169	1	75.0-125		J5	12.0	20
Potassium	1200000	2310000	3690000	3840000	115	128	1	75.0-125		J5	3.87	20
Sodium	1200000	452000	1440000	1410000	82.2	80.3	1	75.0-125			1.61	20

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
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.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
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.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

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

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

J077

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: **CTEH**

Billing Information: ctehap@montrose-env.com

Address:

Report To: Lab Results; Kyle Lawrence; Lisa Howes; Andrew Henault; Tami McMullin

Email To: labresults@cteh.com; kylelawrence@cteh.com; lhowes@cteh.com; ahenault@cteh.com; tmcmullin@cteh.com

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: Bishop Loss of Containment **PROJ-054017**

State: **CO** County/City: **Galeton**
Time Zone Collect [ ]PT [X]MT [ ]CT [ ]ET

Phone:
Email:

Site/Facility ID #:

Compliance Monitoring?
[ ] Yes [ ] No

Collected By (print): K. Burrows
D. Schroeder

Purchase Order # :
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:

Immediately Packed on Ice:
[X] Yes [ ] No

Sample Disposal:
[ ] Dispose as appropriate
[ ] Return
[ ] Archive: _____
[X] Hold: ____2X_____

Rush: (Expedite Charges Apply)
[ ] Same Day [ ] Next Day
[ ] 2 Day [X] 3 Day
[ ] 4 Day [ ] Standard

Field Filtered (if applicable):
[ ] Yes [ ] No

Analysis: _____

Container Preservative Type **: U U U U U U U U

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Date	Time	No. of Cntrs	Container Type: Plastic (P) or Glass (G)	300.0 - Anions	300.0 - Cations	415.1 - Total Organic Carbon	20B - Sodium Adsorption Ratio	9050A - Electrical Conductivity	901.1 - Radionuclides	351.2 - Total Nitrogen	9045D - pH	Lab Sample # / Comments:
GACO0419BG006	SL	Grab	4/19/2025	0836	5	G	X	X	X	X	X	X	X	X	L1850136 -01
GACO0419BG007	SL	Grab	4/19/2025	0903	5	G	X	X	X	X	X	X	X	X	-02
GACO0419BG008	SL	Grab	4/19/2025	0938	5	G	X	X	X	X	X	X	X	X	-03
GACO0419BG009	SL	Grab	4/19/2025	1003	5	G	X	X	X	X	X	X	X	X	-04
~~GACO0419BG010~~	~~SL~~	~~Grab~~	~~4/19/2025~~	~~1056~~	~~5~~	~~G~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	-05
GACO0419BGC010	SL	Grab	4/19/2025	1056	5	G	X	X	X	X	X	X	X	X	
GACO0419BG011	SL	Grab	4/19/2025	1128	5	G	X	X	X	X	X	X	X	X	-06
GACO0419BG012	SL	Grab	4/19/2025	1317	5	G	X	X	X	X	X	X	X	X	-07
GACO0419BG013	SL	Grab	4/19/2025	1330	5	G	X	X	X	X	X	X	X	X	-08

DS

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Montrose	4/19/2025		
	4/19/25	SWA	
			4-20-25 1015

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

Multiple Parcel Form L# 1850136

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
526 2696 9611	TH19	3.8	0.4	4.2	Yes / No / Not Present
	↓	0.6	↓	1.0	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
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					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Name

Date

04/20-NCF-L1850136/37-CTEHER PM

R2/R3/R4/RX/EX

Time estimate: oh **Time spent:** oh

Members

Paul Minnich (responsible) JS Jared Starkey

Due on *22 April 2025 5:00 PM* for target *Done*

- [ ] Parameter(s) past holding time
- [ ] Temperature not in range
- [ ] Improper container type
- [ ] pH not in range
- [x] Insufficient sample volume
- [ ] Sample is biphasic
- [ ] Vials received with headspace
- [ ] Broken container
- [ ] Sufficient sample remains
- [ ] If broken container: Insufficient packing material around container
- [ ] If broken container: Insufficient packing material inside cooler
- [ ] If broken container: Improper handling by carrier:_____
- [ ] If broken container: Sample was frozen
- [ ] If broken container: Container lid not intact
- [ ] Client informed by Call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Paul Minnich *20 April 2025 12:21 PM*

Missing sample GACO0419BGC010. All coolers checked twice

Jared Starkey *20 April 2025 7:42 PM*

Please proceed without, client informed.

Matthew Shacklock *21 April 2025 8:45 AM*

Done