ANALYTICAL REPORT

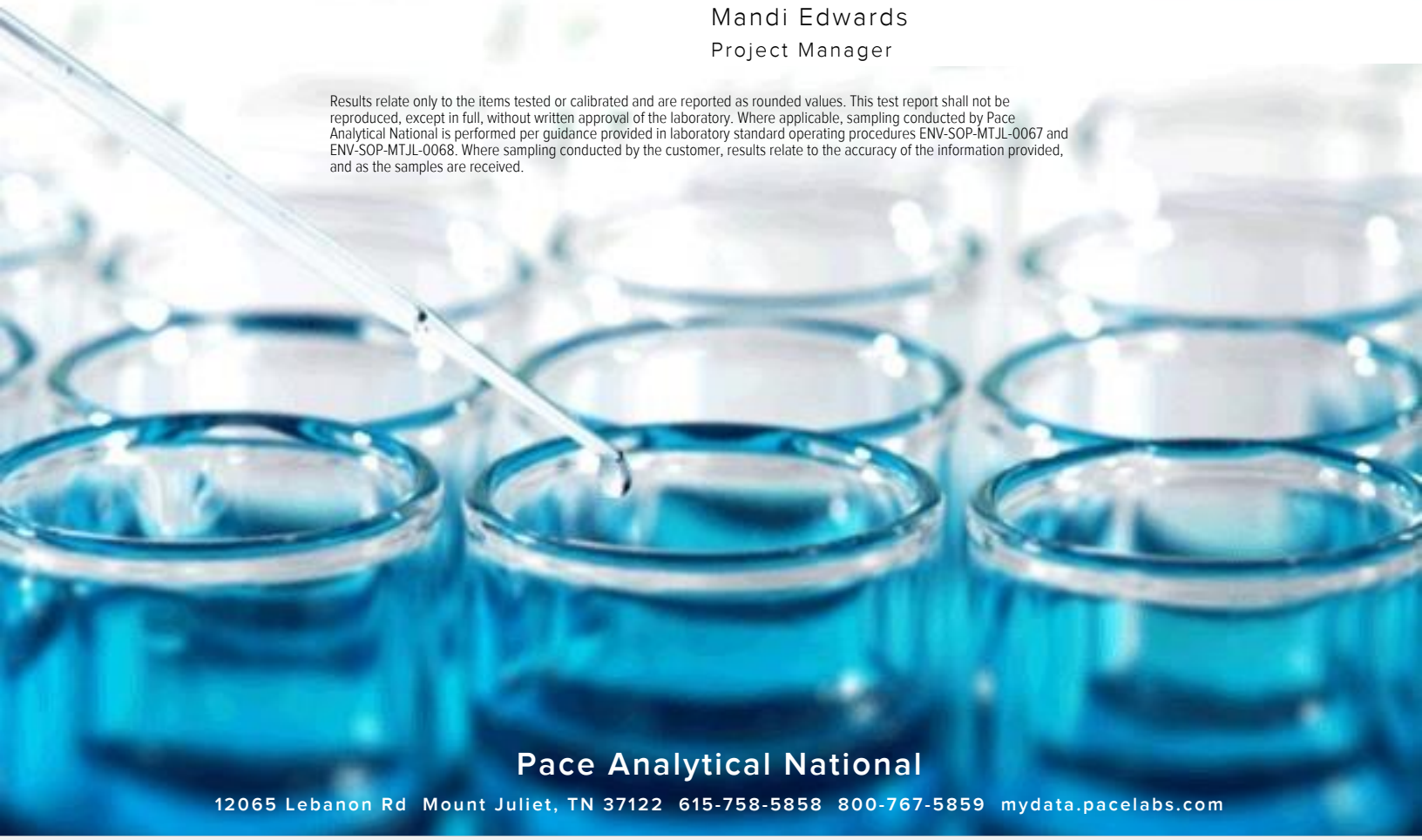
June 17, 2025

Civitas - CO

Sample Delivery Group:	L1864058
Samples Received:	05/29/2025
Project Number:	
Description:	GORDON 13-19
Report To:	Civitas-Ensolum 6855 W. 118th Ave Broomfield, CO 80020

Entire Report Reviewed By:

Mandi Edwards
Project Manager



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

TABLE OF CONTENTS

NATIVE - BG01@3' L1864058-01

Collected by: Max Buffy | Collected date/time: 05/28/25 09:15 | Received date/time: 05/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2529518	1	06/06/25 10:15	06/06/25 10:15	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2531992	1	06/06/25 08:58	06/10/25 07:06	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2532388	1	06/06/25 10:29	06/06/25 13:10	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2532391	1	06/06/25 10:30	06/06/25 18:26	RJP	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2529550	1	06/05/25 04:07	06/05/25 08:18	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2528505	5	06/04/25 07:10	06/10/25 00:17	SJM	Mt. Juliet, TN

NATIVE - BG01@6' L1864058-02

Collected by: Max Buffy | Collected date/time: 05/28/25 09:30 | Received date/time: 05/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2529518	1	06/06/25 10:17	06/06/25 10:17	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2531992	1	06/06/25 08:58	06/10/25 07:15	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2532388	1	06/06/25 10:29	06/06/25 13:10	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2532391	1	06/06/25 10:30	06/06/25 18:26	RJP	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2529550	1	06/05/25 04:07	06/05/25 08:20	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2528505	5	06/04/25 07:10	06/10/25 01:18	SJM	Mt. Juliet, TN

NATIVE - BG02@3' L1864058-03

Collected by: Max Buffy | Collected date/time: 05/28/25 08:45 | Received date/time: 05/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2529518	1	06/06/25 10:18	06/06/25 10:18	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2531992	1	06/06/25 08:58	06/10/25 07:24	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2532388	1	06/06/25 10:29	06/06/25 13:10	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2532391	1	06/06/25 10:30	06/06/25 18:26	RJP	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2529550	1	06/05/25 04:07	06/05/25 08:21	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2528505	5	06/04/25 07:10	06/10/25 01:28	SJM	Mt. Juliet, TN

NATIVE - BG02@6' L1864058-04

Collected by: Max Buffy | Collected date/time: 05/28/25 09:00 | Received date/time: 05/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2529518	1	06/06/25 10:20	06/06/25 10:20	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2531992	1	06/06/25 08:58	06/10/25 07:33	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2532388	1	06/06/25 10:29	06/06/25 13:10	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2532391	1	06/06/25 10:30	06/06/25 18:26	RJP	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2529550	1	06/05/25 04:07	06/05/25 08:23	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2528505	5	06/04/25 07:10	06/10/25 01:31	SJM	Mt. Juliet, TN

NATIVE - BG03@3' L1864058-05

Collected by: Max Buffy | Collected date/time: 05/28/25 08:20 | Received date/time: 05/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2529518	1	06/06/25 10:22	06/06/25 10:22	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2531992	1	06/06/25 08:58	06/10/25 07:51	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2532388	1	06/06/25 10:29	06/06/25 13:10	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2532391	1	06/06/25 10:30	06/06/25 18:26	RJP	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2529550	1	06/05/25 04:07	06/05/25 08:25	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2528505	5	06/04/25 07:10	06/10/25 01:34	SJM	Mt. Juliet, TN

NATIVE - BG03@6' L1864058-06

Collected by: Max Buffy | Collected date/time: 05/28/25 08:37 | Received date/time: 05/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2529518	1	06/06/25 10:23	06/06/25 10:23	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2531992	1	06/06/25 08:58	06/10/25 08:18	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2532388	1	06/06/25 10:29	06/06/25 13:10	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2532391	1	06/06/25 10:30	06/06/25 18:26	RJP	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2529550	1	06/05/25 04:07	06/05/25 08:26	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2528505	5	06/04/25 07:10	06/10/25 01:37	SJM	Mt. Juliet, TN

NATIVE - BG04@3' L1864058-07

Collected by: Max Buffy | Collected date/time: 05/28/25 09:45 | Received date/time: 05/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2529518	1	06/06/25 10:25	06/06/25 10:25	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2531992	1	06/06/25 08:58	06/10/25 08:27	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2532388	1	06/06/25 10:29	06/06/25 13:10	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2532391	1	06/06/25 10:30	06/06/25 18:26	RJP	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2529550	1	06/05/25 04:07	06/05/25 08:28	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2528505	5	06/04/25 07:10	06/10/25 01:40	SJM	Mt. Juliet, TN

NATIVE - BG04@6' L1864058-08

Collected by: Max Buffy | Collected date/time: 05/28/25 10:00 | Received date/time: 05/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2529518	1	06/06/25 10:27	06/06/25 10:27	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2531992	1	06/06/25 08:58	06/10/25 08:36	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2532388	1	06/06/25 10:29	06/06/25 13:10	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2532391	1	06/06/25 10:30	06/06/25 18:26	RJP	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2529550	1	06/05/25 04:07	06/05/25 08:30	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2528505	5	06/04/25 07:10	06/10/25 01:44	SJM	Mt. Juliet, TN

NATIVE - BG05@3' L1864058-09

Collected by: Max Buffy | Collected date/time: 05/28/25 10:20 | Received date/time: 05/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2529518	1	06/06/25 10:28	06/06/25 10:28	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2531992	1	06/06/25 08:58	06/10/25 08:45	EKB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2532388	1	06/06/25 10:29	06/06/25 13:10	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2532391	1	06/06/25 10:30	06/06/25 18:26	RJP	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2529550	1	06/05/25 04:07	06/05/25 08:35	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2528508	5	06/03/25 17:52	06/04/25 23:32	LD	Mt. Juliet, TN

NATIVE - BG05@6' L1864058-10

Collected by: Max Buffy | Collected date/time: 05/28/25 10:40 | Received date/time: 05/29/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2529518	1	06/06/25 10:30	06/06/25 10:30	RLS	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2528378	1	06/03/25 00:05	06/04/25 01:48	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2532388	1	06/06/25 10:29	06/06/25 13:10	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2532391	1	06/06/25 10:30	06/06/25 18:26	RJP	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2529550	1	06/05/25 04:07	06/05/25 08:36	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2528508	5	06/03/25 17:52	06/04/25 23:36	LD	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. 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.

Mandi Edwards
Project Manager

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.653		1	06/06/2025 10:15	WG2529518

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	1	06/10/2025 07:06	WG2531992

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.29		1	06/06/2025 13:10	WG2532388

Sample Narrative:

L1864058-01 WG2532388: 8.29 at 24C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	307	umhos/cm		10.0	1	06/06/2025 18:26	WG2532391

Sample Narrative:

L1864058-01 WG2532391: at 25C

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.340		0.200	1	06/05/2025 08:18	WG2529550

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.22		0.100	5	06/10/2025 00:17	WG2528505
Barium	160		10.0	5	06/10/2025 00:17	WG2528505
Cadmium	0.202		0.100	5	06/10/2025 00:17	WG2528505
Copper	10.3		10.0	5	06/10/2025 00:17	WG2528505
Lead	ND		10.0	5	06/10/2025 00:17	WG2528505
Nickel	11.4		10.0	5	06/10/2025 00:17	WG2528505
Selenium	0.399		0.100	5	06/10/2025 00:17	WG2528505
Silver	ND		0.500	5	06/10/2025 00:17	WG2528505
Zinc	ND		50.0	5	06/10/2025 00:17	WG2528505

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.708		1	06/06/2025 10:17	WG2529518

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	1	06/10/2025 07:15	WG2531992

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.59		1	06/06/2025 13:10	WG2532388

Sample Narrative:

L1864058-02 WG2532388: 8.59 at 24.1C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	239	umhos/cm		10.0	1	06/06/2025 18:26	WG2532391

Sample Narrative:

L1864058-02 WG2532391: at 25C

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.211		0.200	1	06/05/2025 08:20	WG2529550

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	1.97		0.100	5	06/10/2025 01:18	WG2528505
Barium	83.0		10.0	5	06/10/2025 01:18	WG2528505
Cadmium	0.102		0.100	5	06/10/2025 01:18	WG2528505
Copper	ND		10.0	5	06/10/2025 01:18	WG2528505
Lead	ND		10.0	5	06/10/2025 01:18	WG2528505
Nickel	ND		10.0	5	06/10/2025 01:18	WG2528505
Selenium	0.265		0.100	5	06/10/2025 01:18	WG2528505
Silver	ND		0.500	5	06/10/2025 01:18	WG2528505
Zinc	ND		50.0	5	06/10/2025 01:18	WG2528505

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.48		1	06/06/2025 10:18	WG2529518

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	1	06/10/2025 07:24	WG2531992

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.42		1	06/06/2025 13:10	WG2532388

Sample Narrative:

L1864058-03 WG2532388: 8.42 at 24.9C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	460	umhos/cm		10.0	1	06/06/2025 18:26	WG2532391

Sample Narrative:

L1864058-03 WG2532391: at 25C

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.513		0.200	1	06/05/2025 08:21	WG2529550

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.43		0.100	5	06/10/2025 01:28	WG2528505
Barium	185		10.0	5	06/10/2025 01:28	WG2528505
Cadmium	0.226		0.100	5	06/10/2025 01:28	WG2528505
Copper	13.5		10.0	5	06/10/2025 01:28	WG2528505
Lead	11.4		10.0	5	06/10/2025 01:28	WG2528505
Nickel	16.5		10.0	5	06/10/2025 01:28	WG2528505
Selenium	0.687		0.100	5	06/10/2025 01:28	WG2528505
Silver	ND		0.500	5	06/10/2025 01:28	WG2528505
Zinc	55.0		50.0	5	06/10/2025 01:28	WG2528505

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.91		1	06/06/2025 10:20	WG2529518

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	1	06/10/2025 07:33	WG2531992

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.49		1	06/06/2025 13:10	WG2532388

Sample Narrative:

L1864058-04 WG2532388: 8.49 at 24C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	884	umhos/cm		10.0	1	06/06/2025 18:26	WG2532391

Sample Narrative:

L1864058-04 WG2532391: at 25C

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	1.16		0.200	1	06/05/2025 08:23	WG2529550

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.75		0.100	5	06/10/2025 01:31	WG2528505
Barium	233		10.0	5	06/10/2025 01:31	WG2528505
Cadmium	0.154		0.100	5	06/10/2025 01:31	WG2528505
Copper	12.6		10.0	5	06/10/2025 01:31	WG2528505
Lead	11.8		10.0	5	06/10/2025 01:31	WG2528505
Nickel	14.7		10.0	5	06/10/2025 01:31	WG2528505
Selenium	0.678		0.100	5	06/10/2025 01:31	WG2528505
Silver	ND		0.500	5	06/10/2025 01:31	WG2528505
Zinc	54.9		50.0	5	06/10/2025 01:31	WG2528505

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.139		1	06/06/2025 10:22	WG2529518

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	1	06/10/2025 07:51	WG2531992

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.73		1	06/06/2025 13:10	WG2532388

Sample Narrative:

L1864058-05 WG2532388: 8.73 at 23.9C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	126	umhos/cm		10.0	1	06/06/2025 18:26	WG2532391

Sample Narrative:

L1864058-05 WG2532391: at 25C

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/05/2025 08:25	WG2529550

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	1.29		0.100	5	06/10/2025 01:34	WG2528505
Barium	38.1		10.0	5	06/10/2025 01:34	WG2528505
Cadmium	ND		0.100	5	06/10/2025 01:34	WG2528505
Copper	ND		10.0	5	06/10/2025 01:34	WG2528505
Lead	ND		10.0	5	06/10/2025 01:34	WG2528505
Nickel	ND		10.0	5	06/10/2025 01:34	WG2528505
Selenium	0.223		0.100	5	06/10/2025 01:34	WG2528505
Silver	ND		0.500	5	06/10/2025 01:34	WG2528505
Zinc	ND		50.0	5	06/10/2025 01:34	WG2528505

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.141		1	06/06/2025 10:23	WG2529518

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	1	06/10/2025 08:18	WG2531992

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.58		1	06/06/2025 13:10	WG2532388

Sample Narrative:

L1864058-06 WG2532388: 8.58 at 24.1C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	166	umhos/cm		10.0	1	06/06/2025 18:26	WG2532391

Sample Narrative:

L1864058-06 WG2532391: at 25C

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/05/2025 08:26	WG2529550

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	1.85		0.100	5	06/10/2025 01:37	WG2528505
Barium	54.3		10.0	5	06/10/2025 01:37	WG2528505
Cadmium	ND		0.100	5	06/10/2025 01:37	WG2528505
Copper	ND		10.0	5	06/10/2025 01:37	WG2528505
Lead	ND		10.0	5	06/10/2025 01:37	WG2528505
Nickel	ND		10.0	5	06/10/2025 01:37	WG2528505
Selenium	0.245		0.100	5	06/10/2025 01:37	WG2528505
Silver	ND		0.500	5	06/10/2025 01:37	WG2528505
Zinc	ND		50.0	5	06/10/2025 01:37	WG2528505

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.92		1	06/06/2025 10:25	WG2529518

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	1	06/10/2025 08:27	WG2531992

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.42		1	06/06/2025 13:10	WG2532388

Sample Narrative:

L1864058-07 WG2532388: 8.42 at 24.7C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	321	umhos/cm		10.0	1	06/06/2025 18:26	WG2532391

Sample Narrative:

L1864058-07 WG2532391: at 25C

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.420		0.200	1	06/05/2025 08:28	WG2529550

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.39		0.100	5	06/10/2025 01:40	WG2528505
Barium	119		10.0	5	06/10/2025 01:40	WG2528505
Cadmium	0.145		0.100	5	06/10/2025 01:40	WG2528505
Copper	11.1		10.0	5	06/10/2025 01:40	WG2528505
Lead	ND		10.0	5	06/10/2025 01:40	WG2528505
Nickel	12.7		10.0	5	06/10/2025 01:40	WG2528505
Selenium	0.549		0.100	5	06/10/2025 01:40	WG2528505
Silver	ND		0.500	5	06/10/2025 01:40	WG2528505
Zinc	ND		50.0	5	06/10/2025 01:40	WG2528505

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.84		1	06/06/2025 10:27	WG2529518

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	1	06/10/2025 08:36	WG2531992

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.47		1	06/06/2025 13:10	WG2532388

Sample Narrative:

L1864058-08 WG2532388: 8.47 at 24.1C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	737	umhos/cm		10.0	1	06/06/2025 18:26	WG2532391

Sample Narrative:

L1864058-08 WG2532391: at 25C

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	1.42		0.200	1	06/05/2025 08:30	WG2529550

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.91		0.100	5	06/10/2025 01:44	WG2528505
Barium	286		10.0	5	06/10/2025 01:44	WG2528505
Cadmium	0.172		0.100	5	06/10/2025 01:44	WG2528505
Copper	12.3		10.0	5	06/10/2025 01:44	WG2528505
Lead	ND		10.0	5	06/10/2025 01:44	WG2528505
Nickel	13.9		10.0	5	06/10/2025 01:44	WG2528505
Selenium	0.389		0.100	5	06/10/2025 01:44	WG2528505
Silver	ND		0.500	5	06/10/2025 01:44	WG2528505
Zinc	ND		50.0	5	06/10/2025 01:44	WG2528505

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.192		1	06/06/2025 10:28	WG2529518

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	1	06/10/2025 08:45	WG2531992

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.29		1	06/06/2025 13:10	WG2532388

Sample Narrative:

L1864058-09 WG2532388: 8.29 at 24.2C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	248	umhos/cm		10.0	1	06/06/2025 18:26	WG2532391

Sample Narrative:

L1864058-09 WG2532391: at 25C

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.468		0.200	1	06/05/2025 08:35	WG2529550

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.61		0.100	5	06/04/2025 23:32	WG2528508
Barium	132		10.0	5	06/04/2025 23:32	WG2528508
Cadmium	0.159		0.100	5	06/04/2025 23:32	WG2528508
Copper	10.2		10.0	5	06/04/2025 23:32	WG2528508
Lead	ND		10.0	5	06/04/2025 23:32	WG2528508
Nickel	11.3		10.0	5	06/04/2025 23:32	WG2528508
Selenium	0.610		0.100	5	06/04/2025 23:32	WG2528508
Silver	ND		0.500	5	06/04/2025 23:32	WG2528508
Zinc	ND		50.0	5	06/04/2025 23:32	WG2528508

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.309		1	06/06/2025 10:30	WG2529518

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		0.200	1	06/04/2025 01:48	WG2528378

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.16		1	06/06/2025 13:10	WG2532388

Sample Narrative:

L1864058-10 WG2532388: 8.16 at 24.3C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	300	umhos/cm		10.0	1	06/06/2025 18:26	WG2532391

Sample Narrative:

L1864058-10 WG2532391: at 25C

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.572		0.200	1	06/05/2025 08:36	WG2529550

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.48		0.100	5	06/04/2025 23:36	WG2528508
Barium	109		10.0	5	06/04/2025 23:36	WG2528508
Cadmium	0.150		0.100	5	06/04/2025 23:36	WG2528508
Copper	ND		10.0	5	06/04/2025 23:36	WG2528508
Lead	ND		10.0	5	06/04/2025 23:36	WG2528508
Nickel	10.2		10.0	5	06/04/2025 23:36	WG2528508
Selenium	0.556		0.100	5	06/04/2025 23:36	WG2528508
Silver	ND		0.500	5	06/04/2025 23:36	WG2528508
Zinc	ND		50.0	5	06/04/2025 23:36	WG2528508

Method Blank (MB)

(MB) R4225088-1 06/03/25 21:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	ND		0.200	0.200

L1862865-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1862865-01 06/03/25 23:33 • (DUP) R4225088-7 06/03/25 23:43

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	0.237	0.257	1	8.00		20

L1863457-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1863457-03 06/04/25 00:46 • (DUP) R4225088-8 06/04/25 01:38

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

Laboratory Control Sample (LCS)

(LCS) R4225088-2 06/03/25 21:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	9.18	91.8	80.0-120	

L1862789-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1862789-03 06/03/25 22:16 • (MS) R4225088-3 06/03/25 22:26 • (MSD) R4225088-4 06/03/25 22:37

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 %
Hexavalent Chromium	20.0	ND	16.7	17.4	83.4	87.1	1	75.0-125			4.32	20

L1862789-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1862789-03 06/03/25 22:16 • (MS) R4225088-5 06/03/25 23:12

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	638	ND	499	78.2	50	75.0-125	

Method Blank (MB)

(MB) R4228232-1 06/10/25 04:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	0.215		0.200	0.200

L1864058-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1864058-04 06/10/25 07:33 • (DUP) R4228232-4 06/10/25 07:42

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

Laboratory Control Sample (LCS)

(LCS) R4228232-2 06/10/25 04:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	10.7	107	80.0-120	

L1864058-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864058-09 06/10/25 08:45 • (MS) R4228232-6 06/10/25 09:03 • (MSD) R4228232-7 06/10/25 09:12

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 %
Hexavalent Chromium	20.0	ND	18.9	18.7	94.3	93.4	1	75.0-125			0.985	20

L1864058-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1864058-09 06/10/25 08:45 • (MS) R4228232-8 06/10/25 09:21

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	654	ND	650	99.4	50	75.0-125	

L1864031-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864031-01 06/06/25 13:10 • (DUP) R4226694-2 06/06/25 13:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.09	8.05	1	0.496		1

Sample Narrative:

OS: 8.09 at 24.5C

DUP: 8.05 at 24.5C

L1864058-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1864058-10 06/06/25 13:10 • (DUP) R4226694-3 06/06/25 13:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.16	8.18	1	0.245		1

Sample Narrative:

OS: 8.16 at 24.3C

DUP: 8.18 at 24.6C

Laboratory Control Sample (LCS)

(LCS) R4226694-1 06/06/25 13:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.96	99.6	99.0-101	

Sample Narrative:

LCS: 9.96 at 24.2C

Method Blank (MB)

(MB) R4226861-1 06/06/25 18:26

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

Sample Narrative:
BLANK: at 25C

L1864031-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1864031-02 06/06/25 18:26 • (DUP) R4226861-3 06/06/25 18:26

Analyte	Original Result mmhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	ND	751	1	0.133		20

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

L1864058-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1864058-09 06/06/25 18:26 • (DUP) R4226861-4 06/06/25 18:26

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	248	248	1	0.000		20

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

Laboratory Control Sample (LCS)

(LCS) R4226861-2 06/06/25 18:26

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	581	557	95.9	90.0-110	

Sample Narrative:
LCS: at 25C

Method Blank (MB)

(MB) R4225938-1 06/05/25 07:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	ND		0.0167	0.200

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

(LCS) R4225938-2 06/05/25 07:57 • (LCSD) R4225938-3 06/05/25 07:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.05	1.07	105	107	80.0-120			2.01	20

QUALITY CONTROL SUMMARY

L1864058-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R4227929-1 06/10/25 00:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	ND		0.100	0.100
Barium	ND		10.0	10.0
Cadmium	ND		0.100	0.100
Copper	ND		10.0	10.0
Lead	ND		10.0	10.0
Nickel	ND		10.0	10.0
Selenium	ND		0.100	0.100
Silver	ND		0.500	0.500
Zinc	ND		50.0	50.0

Laboratory Control Sample (LCS)

(LCS) R4227929-2 06/10/25 00:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	88.4	88.4	80.0-120	
Barium	100	84.2	84.2	80.0-120	
Cadmium	100	97.1	97.1	80.0-120	
Copper	100	88.8	88.8	80.0-120	
Lead	100	85.1	85.1	80.0-120	
Nickel	100	94.1	94.1	80.0-120	
Selenium	100	93.0	93.0	80.0-120	
Silver	20.0	18.1	90.5	80.0-120	
Zinc	100	89.4	89.4	80.0-120	

L1864058-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864058-01 06/10/25 00:17 • (MS) R4227929-5 06/10/25 00:27 • (MSD) R4227929-6 06/10/25 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 %
Arsenic	100	4.22	116	111	111	107	5	75.0-125			3.98	20
Barium	100	160	250	263	89.7	103	5	75.0-125			5.17	20
Cadmium	100	0.202	119	115	119	115	5	75.0-125			3.20	20
Copper	100	10.3	120	117	110	106	5	75.0-125			3.05	20
Lead	100	ND	115	110	115	110	5	75.0-125			3.90	20
Nickel	100	11.4	126	122	115	110	5	75.0-125			3.69	20
Selenium	100	0.399	114	111	114	111	5	75.0-125			2.85	20
Silver	20.0	ND	22.7	21.8	114	109	5	75.0-125			3.97	20
Zinc	100	ND	149	146	149	146	5	75.0-125	J5	J5	2.53	20

Method Blank (MB)

(MB) R4225719-1 06/04/25 21:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	ND		0.100	0.100
Barium	ND		10.0	10.0
Cadmium	ND		0.100	0.100
Copper	ND		10.0	10.0
Lead	ND		10.0	10.0
Nickel	ND		10.0	10.0
Selenium	ND		0.100	0.100
Silver	ND		0.500	0.500
Zinc	ND		50.0	50.0

Laboratory Control Sample (LCS)

(LCS) R4225719-2 06/04/25 22:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	97.7	97.7	80.0-120	
Barium	100	92.4	92.4	80.0-120	
Cadmium	100	105	105	80.0-120	
Copper	100	99.4	99.4	80.0-120	
Lead	100	99.7	99.7	80.0-120	
Nickel	100	104	104	80.0-120	
Selenium	100	98.9	98.9	80.0-120	
Silver	20.0	20.0	100	80.0-120	
Zinc	100	97.3	97.3	80.0-120	

L1863457-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1863457-21 06/04/25 22:04 • (MS) R4225719-5 06/04/25 22:13 • (MSD) R4225719-6 06/04/25 22:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	2.23	103	94.5	101	92.3	5	75.0-125			8.64	20
Barium	100	38.9	134	124	95.0	84.8	5	75.0-125			7.87	20
Cadmium	100	ND	108	98.8	108	98.8	5	75.0-125			9.05	20
Copper	100	ND	104	95.3	104	95.3	5	75.0-125			8.96	20
Lead	100	ND	104	94.3	104	94.3	5	75.0-125			9.56	20
Nickel	100	ND	109	100	109	100	5	75.0-125			8.91	20
Selenium	100	0.219	103	93.6	103	93.4	5	75.0-125			9.76	20
Silver	20.0	ND	20.8	19.2	104	96.2	5	75.0-125			7.87	20
Zinc	100	ND	112	104	112	104	5	75.0-125			7.68	20

GLOSSARY OF TERMS

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

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
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
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

ACCREDITATIONS & LOCATIONS

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	LAO000356
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 Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

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

SDG # C172

Acctnum:
Template:
Prelogin: L1840088
PM:
PB:
Shipped Via:

Company Name/Address:
Civitas - CO
6855 W 118th Ave.
Broomfield, CO 80020

Billing Information:
Accounts payable
650 Southgate Dr.
Windsor, CO 80550

Report to: Jacob Evans

Email To: tlyon@ensolum.com
jevans@civiresources.com

Project Description: Gordon 13-19

City/State Collected: Elbert County CO

Please Circle: PT MT CT ET

Phone: 720 363 6416

Client Project #

Lab Project #

Collected by (print): Max Buffy

Site/Facility ID #

P.O. #

Collected by (signature): M. Buffy

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: Standard TAT

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	pH, EC, SAR, Boron	915-1 Metals								Remarks	Sample # (lab only)
Native - BG01 @ 3'	Grab	SS	3	5/28/25	915	2	X	X									-01
Native - BG01 @ 6'			6		930												-02
Native - BG02 @ 3'			3		845												-03
Native - BG02 @ 6'			6		900												-04
Native - BG03 @ 3'			3		820												-05
Native - BG03 @ 6'			6		837												-06
Native - BG04 @ 3'			3		945												-07
Native - BG04 @ 6'			6		1000												-08
Native - BG05 @ 3'			3		1020												-09
Native - BG05 @ 6'			6		1040												-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
M. Buffy	5/28/25	1709	
	5/28/25	1800	

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received:
0.3+0.4=0.7 20

If preservation required by Login: Date/Time

Received for lab by: (Signature)
Date: 05/29/2025 Time: 0800

Hold: Condition: NCF / OK