Entergy Arkansas, LLC
White Bluff Steam Electric Station
Recycle Ponds

2022 Annual Groundwater Monitoring and Corrective Action Report

Prepared in Compliance with the EPA Final Rule for the Disposal of Coal Combustion Residuals Title 40 CFR Part 257

Prepared for:

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Little Rock, Arkansas 72203

Prepared by:

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Baton Rouge, LA 70809

January 31, 2023

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EXECUTIVE SUMMARY

Entergy Arkansas, LLC (Entergy), operated two recycle ponds as part of its process water system for bottom ash transport at the White Bluff Steam Electric Station (Plant) located near Redfield, Arkansas. The recycle ponds provided intermediate storage of waters used in the transport of coal combustion residuals (CCR) generated from the combustion of coal at the plant. Pond A commenced closure as of October 2018 and Pond B commenced closure as of February 2021. Closure by removal was completed in the first half of 2022. Management of the CCR at the recycle ponds is performed pursuant to national criteria established in Title 40 of the Code of Federal Regulations (40 CFR), Part 257 (CCR Rule), effective April 19, 2015 and subsequent revisions to the CCR Rule.

The Plant conducted two semi-annual detection monitoring events in 2022 for the recycle ponds CCR Unit monitoring well network per 40 CFR § 257.94. The statistical analyses completed for the second semi-annual 2021 and first semi-annual 2022 sampling event analytical data did not identify statistically significant increases (SSIs). The recycle ponds CCR unit operated under the detection monitoring program (40 CFR § 257.94) during the duration of 2022.

1. INTRODUCTION

Entergy Arkansas, LLC (Entergy), operated two recycle ponds as part of its process water system for bottom ash transport at the Plant located near Redfield, Arkansas (Lat: 34.421658 / Long: -92.139455). The recycle ponds provided intermediate storage of waters used in the transport of CCR generated from the combustion of coal at the Plant. Pond A commenced closure as of October 2018 and the Pond B commenced closure as of February 2021. Closure by removal was completed in the first half of 2022.The recycle ponds are managed in accordance with the national criteria established in the CCR Rule. Entergy installed a groundwater monitoring system at the recycle ponds CCR Unit that is subject to the groundwater monitoring and corrective action requirements provided under §§257.90 through 257.98 of the CCR rule. In accordance with §257.90(e) of the CCR rule, Entergy must prepare an annual report that provides information regarding the groundwater monitoring and corrective action program at the recycle ponds CCR Unit.

2. GROUNDWATER MONITORING SYSTEM

The recycle ponds CCR unit groundwater monitoring system consists of 10 monitoring wells as shown on Figure 1 included in Appendix A. Pursuant to §257.91(f) of the CCR rule, a qualified Arkansas-registered professional engineer has certified the groundwater monitoring system, which was designed and constructed to meet the requirements of §257.91.

3. INSTALLED OR DECOMISSIONED WELLS DURING 2022

Entergy did not install any new wells or decommission any existing wells in the certified groundwater monitoring system during 2022.

4. GROUNDWATER MONITORING DATA

In accordance with §257.90(e)(3), all monitoring data obtained under §§257.90 through 257.98 during 2022 are provided in Appendix B. Data include:

- Summary of the number of groundwater samples that were collected for analysis for each background and downgradient well;
- Dates the samples were collected; and
- Whether the sample was collected as part of detection or assessment monitoring.

5. STATUS SUMMARY OF THE 2022 GROUNDWATER MONITORING PROGRAM

Groundwater monitoring was performed in accordance with the detection monitoring requirements of §257.94. A summary of activities related to groundwater detection monitoring performed during 2022 is provided in the list below:

- In accordance with §257.94(b), semiannual detection monitoring was performed during the first half (June) and second half (November) of 2022 for analysis of Appendix III parameters (boron, calcium, chloride, fluoride, pH, sulfate and total dissolved solids (TDS)). Additionally, Appendix IV parameters were collected during the first half (June) and second half (August) of 2022. Collection of Appendix IV parameters was for information gathering purposes and not part of an assessment monitoring program.

- Statistical evaluation of the semiannual detection monitoring data was performed in accordance with the statistical method certified by a qualified Arkansas-registered professional engineer. The certified statistical method has been posted to Entergy's CCR Rule Compliance Data and Information website.

- Statistical evaluation of the second half 2021 semi-annual detection monitoring event was completed in 2022 and no SSIs were identified; therefore, Entergy did not prepare an alternative source demonstration (ASD) per §257.94(e)(2) for the detection monitoring event for the CADL CCR Unit.

- The first-half 2022 detection monitoring sampling was performed during June 2022. Based on statistical evaluation of the data, resampling was not required, and no statistically significant increases (SSIs) were identified.

- No problems were encountered during 2022 with regard to the detection monitoring and corrective action system. Therefore, no actions were required to modify the system.

- The recycle ponds CCR unit remained in detection monitoring for the duration of 2022.

6. PROJECTED ACTIVITIES FOR 2023

Planned activities for the program during 2023 are listed below:

- Statistical evaluation of the second-half 2022 detection monitoring sampling data will be performed during 2023 to determine if any SSIs are identified.
- Continue managing the recycling ponds in accordance with the post-closure care plan developed for the units.

APPENDIX A
SITE MAP

LEGEND

- RECYCLING POND WELLS
- RECYCLING POND BOUNDARY

NOTES

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO, 2018 .

N

0 300 600 Feet

1 " = 300 '
1:3,600

PROJECT:
ENTERGY WHITE BLUFF PLANT
1100 WHITE BLUFF ROAD
REDFIELD, ARKANSAS

TITLE:
RECYCLING POND WELL LOCATIONS

DRAWN BY:	S. MAJOR	PROJ. NO.:	431458
CHECKED BY:	L. BURRIS		
APPROVED BY:	J. HOUSE		
DATE:	JANUARY 2021		

FIGURE 2

TRC
Two United Plaza
8550 United Plaza Blvd., Suite 502
Baton Rouge, LA
Phone: 225.216.7483

FILE NO.: 431458-001.mxd

TRC - GIS
Plot Date: 1/25/2021, 15:44:54 PM by SMAJOR -- LAYOUT: ANSI B(11"x17")
Path: S:\1-PROJECTS\Entergy\MadisonLegacy\Projects\Arkansas\2018_302967\431458-001.mxd
Coordinate System: NAD 1983 StatePlane Arkansas South FIPS 0302 Feet (Foot US)
Map Rotation: 0

APPENDIX B
GROUNDWATER MONITORING DATA

Sampling Schedule, Entergy White Bluff Recycle Ponds Network			
	Detection Monitoring Sampling Dates and Wells Sampled		
Well ID	6/13-6/16/2022	12/5-12/6/2022	Number of Samples Collected
RP-1	X	X	2
RP-2	X	X	2
RP-3	X	X	2
RP-4	X	X	2
RP-5	X	X	2
RP-6	X	X	2
RP-7	X	X	2
RP-8	X	X	2
RP-9	X	X	2
RP-10	X	X	2

Notes: All samples collected in 2022 were part of the detection monitoring program. No samples collected in 2022 were part of an assessment monitoring program.

Field pH data collected during 2022, Entergy White Bluff Recycle Ponds Network		
Well ID	Date Collected	pH (su)
RP-1	6/15/2022	3.67
	12/05/2022	3.61
RP-2	6/15/2022	3.67
	12/05/2022	4.16
RP-3	6/16/2022	4.30
	12/05/2022	3.61
RP-4	6/16/2022	3.14
	12/06/2022	5.53
RP-5	6/15/2022	3.88
	12/05/2022	3.35
RP-6	6/13/2022	4.63
	12/05/2022	3.91
RP-7	6/15/2022	3.79
	12/05/2022	3.46
RP-8	6/15/2022	4.31
	12/05/2022	3.61
RP-9	6/16/2022	6.53
	12/05/2022	6.32
RP-10	6/16/2022	3.80
	12/05/2022	3.20

ANALYTICAL REPORT

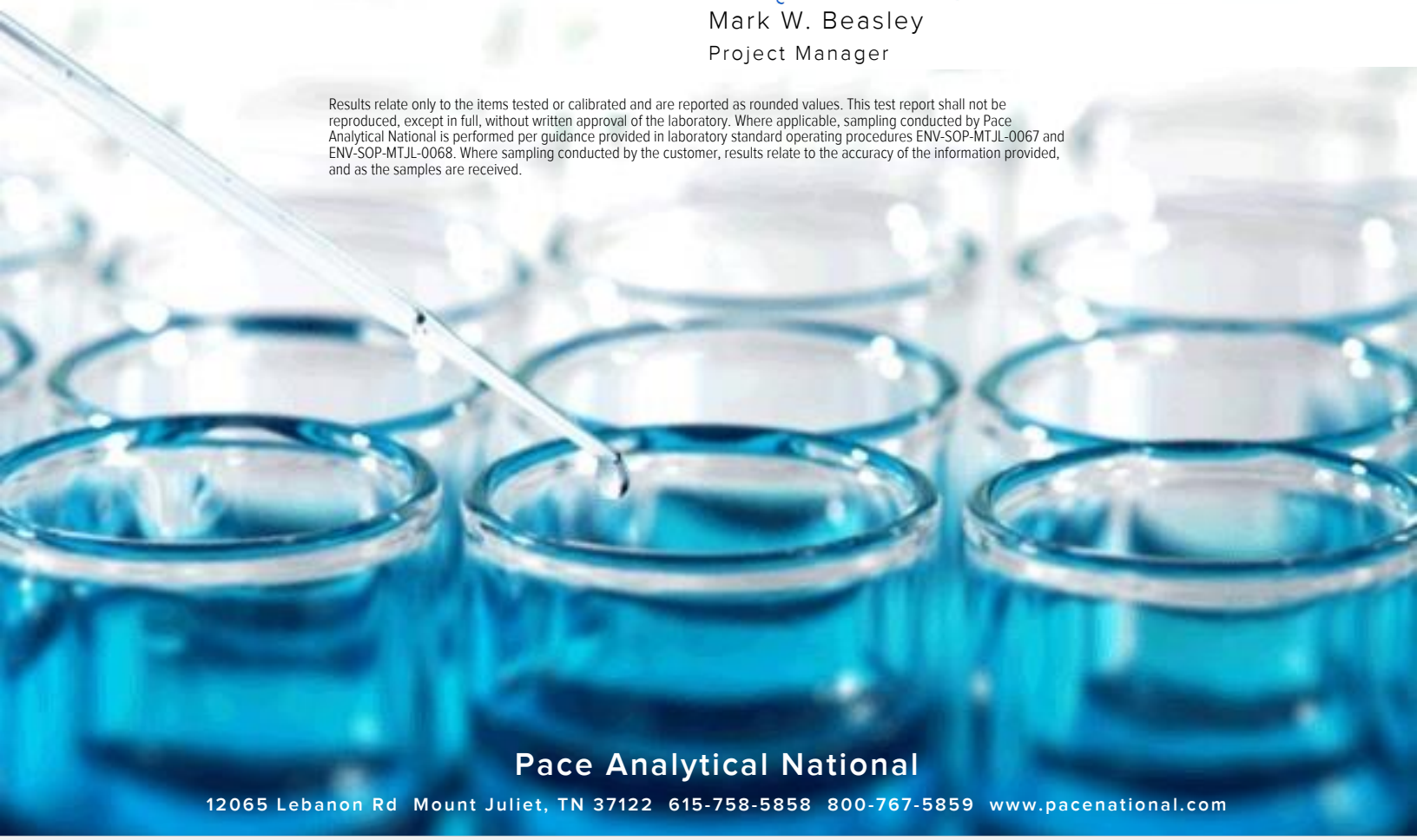
July 17, 2022

GBMc & Associates - Bryant, AR

Sample Delivery Group:	L1506358
Samples Received:	06/17/2022
Project Number:	1145-21-080
Description:	Entergy - White Bluff
Site:	CADL - CCR
Report To:	Jonathan Brown 219 Brown Lane Bryant, AR 72022

Entire Report Reviewed By:

Mark W. Beasley
Project Manager



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

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MW-101S L1506358-01 GW

Collected by: Danielle Braund | Collected date/time: 06/15/22 10:50 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883419	1	06/22/22 09:42	06/22/22 17:30	SJF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891559	1	07/08/22 17:03	07/08/22 17:03	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887146	1	07/05/22 20:45	07/07/22 21:10	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887164	1	07/05/22 21:24	07/07/22 22:01	LD	Mt. Juliet, TN

MW-102S L1506358-02 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 16:30 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882814	1	06/21/22 15:30	06/21/22 16:10	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	1	07/08/22 03:14	07/08/22 03:14	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887146	1	07/05/22 20:45	07/07/22 21:13	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887164	1	07/05/22 21:24	07/07/22 22:05	LD	Mt. Juliet, TN

MW-103S L1506358-03 GW

Collected by: Danielle Braund | Collected date/time: 06/13/22 13:02 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882398	1	06/20/22 17:50	06/20/22 18:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890741	1	07/08/22 05:14	07/08/22 05:14	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887146	1	07/05/22 20:45	07/07/22 21:16	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887164	1	07/05/22 21:24	07/07/22 22:08	LD	Mt. Juliet, TN

MW-104S L1506358-04 GW

Collected by: Danielle Braund | Collected date/time: 06/13/22 17:00 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882398	1	06/20/22 17:50	06/20/22 18:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890741	1	07/08/22 05:41	07/08/22 05:41	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887146	1	07/05/22 20:45	07/07/22 21:19	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887164	1	07/05/22 21:24	07/07/22 22:11	LD	Mt. Juliet, TN

MW-105S L1506358-05 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 08:45 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882814	1	06/21/22 15:30	06/21/22 16:10	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	1	07/08/22 03:29	07/08/22 03:29	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 08:45	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 12:36	JPD	Mt. Juliet, TN

MW-106S L1506358-06 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 09:35 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882814	1	06/21/22 15:30	06/21/22 16:10	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	1	07/08/22 04:29	07/08/22 04:29	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	10	07/08/22 03:59	07/08/22 03:59	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 08:48	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 12:49	JPD	Mt. Juliet, TN

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

MW-110S L1506358-07 GW

Collected by: Danielle Braund | Collected date/time: 06/13/22 15:07 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882398	1	06/20/22 17:50	06/20/22 18:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890741	1	07/08/22 06:07	07/08/22 06:07	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890741	10	07/08/22 05:54	07/08/22 05:54	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 08:51	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 12:53	JPD	Mt. Juliet, TN

MW-111S L1506358-08 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 10:15 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883051	1	06/21/22 16:49	06/21/22 18:33	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	1	07/08/22 05:43	07/08/22 05:43	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	10	07/08/22 05:29	07/08/22 05:29	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 08:53	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 12:56	JPD	Mt. Juliet, TN

MW-101D L1506358-09 GW

Collected by: Danielle Braund | Collected date/time: 06/15/22 09:05 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1895108	1	07/14/22 15:01	07/14/22 18:07	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891559	1	07/08/22 17:30	07/08/22 17:30	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 08:34	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 12:59	JPD	Mt. Juliet, TN

MW-102D L1506358-10 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 17:48 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882814	1	06/21/22 15:30	06/21/22 16:10	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	1	07/08/22 05:58	07/08/22 05:58	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:01	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:11	JPD	Mt. Juliet, TN

MW-103D L1506358-11 GW

Collected by: Danielle Braund | Collected date/time: 06/13/22 14:27 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882167	1	06/20/22 13:47	06/20/22 14:22	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890741	1	07/08/22 06:47	07/08/22 06:47	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:04	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:14	JPD	Mt. Juliet, TN

MW-104D L1506358-12 GW

Collected by: Danielle Braund | Collected date/time: 06/13/22 17:26 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882398	1	06/20/22 17:50	06/20/22 18:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890741	1	07/08/22 07:14	07/08/22 07:14	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:07	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:17	JPD	Mt. Juliet, TN

MW-105D L1506358-13 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 09:05 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882814	1	06/21/22 15:30	06/21/22 16:10	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	1	07/08/22 06:13	07/08/22 06:13	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:10	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:21	JPD	Mt. Juliet, TN

MW-106D L1506358-14 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 11:10 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882719	1	06/21/22 09:56	06/21/22 14:23	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	1	07/08/22 06:28	07/08/22 06:28	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:13	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:24	JPD	Mt. Juliet, TN

MW-107D L1506358-15 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 11:05 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882719	1	06/21/22 09:56	06/21/22 14:23	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	1	07/08/22 06:43	07/08/22 06:43	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:15	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:28	JPD	Mt. Juliet, TN

MW-108D L1506358-16 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 12:45 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882814	1	06/21/22 15:30	06/21/22 16:10	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	1	07/08/22 06:58	07/08/22 06:58	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:18	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:31	JPD	Mt. Juliet, TN

MW-109D L1506358-17 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 15:45 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882719	1	06/21/22 09:56	06/21/22 14:23	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	1	07/08/22 07:13	07/08/22 07:13	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:21	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:34	JPD	Mt. Juliet, TN

MW-110D L1506358-18 GW

Collected by: Danielle Braund | Collected date/time: 06/13/22 15:41 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882398	1	06/20/22 17:50	06/20/22 18:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890741	1	07/08/22 07:54	07/08/22 07:54	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:24	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:38	JPD	Mt. Juliet, TN

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

MW-112D L1506358-19 GW

Collected by: Danielle Braund | Collected date/time: 06/15/22 16:20 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883419	1	06/22/22 09:42	06/22/22 17:30	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891559	1	07/08/22 17:43	07/08/22 17:43	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:27	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:41	JPD	Mt. Juliet, TN

MW-113D L1506358-20 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 12:35 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882719	1	06/21/22 09:56	06/21/22 14:23	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	1	07/08/22 07:28	07/08/22 07:28	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	10	07/12/22 11:45	07/12/22 11:45	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:35	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:53	JPD	Mt. Juliet, TN

MW-114D L1506358-21 GW

Collected by: Danielle Braund | Collected date/time: 06/15/22 18:15 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883409	1	06/22/22 09:04	06/22/22 16:01	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891559	1	07/08/22 18:10	07/08/22 18:10	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:38	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:56	JPD	Mt. Juliet, TN

MW-115D L1506358-22 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 14:15 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883051	1	06/21/22 16:49	06/21/22 18:33	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890898	1	07/08/22 07:43	07/08/22 07:43	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887147	1	07/07/22 00:52	07/07/22 09:41	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 13:59	JPD	Mt. Juliet, TN

MW-118D L1506358-23 GW

Collected by: Danielle Braund | Collected date/time: 06/15/22 13:30 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883415	1	06/22/22 09:12	06/22/22 14:52	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891559	1	07/08/22 18:37	07/08/22 18:37	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1891121	1	07/07/22 15:28	07/07/22 22:20	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 14:03	JPD	Mt. Juliet, TN

FIELD BLANK 1 L1506358-24 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 08:50 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882814	1	06/21/22 15:30	06/21/22 16:10	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890900	1	07/08/22 15:20	07/08/22 15:20	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1891121	1	07/07/22 15:28	07/07/22 22:23	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887166	1	07/05/22 22:00	07/06/22 14:06	JPD	Mt. Juliet, TN

DUPLICATE 1 L1506358-25 GW

Collected by: Danielle Braund | Collected date/time: 06/14/22 12:45 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883051	1	06/21/22 16:49	06/21/22 18:33	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890900	1	07/08/22 17:34	07/08/22 17:34	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 18:57	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 20:07	JDG	Mt. Juliet, TN

FIELD BLANK 2 L1506358-26 GW

Collected by: Danielle Braund | Collected date/time: 06/15/22 08:00 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883409	1	06/22/22 09:04	06/22/22 16:01	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891559	1	07/08/22 19:17	07/08/22 19:17	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:07	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 20:11	JDG	Mt. Juliet, TN

DUPLICATE 2 L1506358-27 GW

Collected by: Danielle Braund | Collected date/time: 06/15/22 10:50 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883419	1	06/22/22 09:42	06/22/22 17:30	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891559	1	07/08/22 19:30	07/08/22 19:30	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:10	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 20:15	JDG	Mt. Juliet, TN

DUPLICATE 3 L1506358-28 GW

Collected by: Danielle Braund | Collected date/time: 06/13/22 17:00 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882398	1	06/20/22 17:50	06/20/22 18:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890741	1	07/08/22 08:08	07/08/22 08:08	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:12	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 20:18	JDG	Mt. Juliet, TN

RP-1 L1506358-29 GW

Collected by: Danielle Braund | Collected date/time: 06/15/22 13:46 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883419	1	06/22/22 09:42	06/22/22 17:30	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891559	1	07/08/22 20:11	07/08/22 20:11	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891559	10	07/08/22 19:57	07/08/22 19:57	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891559	100	07/08/22 19:44	07/08/22 19:44	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:15	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 20:39	JDG	Mt. Juliet, TN

RP-2 L1506358-30 GW

Collected by: Danielle Braund | Collected date/time: 06/15/22 12:20 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883419	1	06/22/22 09:42	06/22/22 17:30	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891844	1	07/09/22 00:17	07/09/22 00:17	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:23	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 20:42	JDG	Mt. Juliet, TN

RP-3 L1506358-31 GW

Collected by: Danielle Braund | Collected date/time: 06/16/22 09:05 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1884161	1	06/23/22 09:41	06/23/22 14:18	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891844	1	07/09/22 01:02	07/09/22 01:02	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891844	10	07/09/22 00:47	07/09/22 00:47	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:26	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 20:46	JDG	Mt. Juliet, TN

RP-4 L1506358-32 GW

Collected by: Danielle Braund | Collected date/time: 06/16/22 10:15 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1884165	1	06/23/22 09:43	06/23/22 15:25	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891844	1	07/09/22 01:17	07/09/22 01:17	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:29	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 20:50	JDG	Mt. Juliet, TN

RP-5 L1506358-33 GW

Collected by: Danielle Braund | Collected date/time: 06/15/22 17:45 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883415	1	06/22/22 09:12	06/22/22 14:52	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891844	1	07/09/22 01:32	07/09/22 01:32	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:32	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 20:54	JDG	Mt. Juliet, TN

RP-6 L1506358-34 GW

Collected by: Danielle Braund | Collected date/time: 06/13/22 10:45 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1882398	1	06/20/22 17:50	06/20/22 18:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890741	1	07/08/22 08:35	07/08/22 08:35	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1890741	100	07/08/22 08:21	07/08/22 08:21	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:34	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 20:57	JDG	Mt. Juliet, TN

RP-7 L1506358-35 GW

Collected by: Danielle Braund | Collected date/time: 06/15/22 16:30 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883419	1	06/22/22 09:42	06/22/22 17:30	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891844	1	07/09/22 01:47	07/09/22 01:47	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:37	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 21:01	JDG	Mt. Juliet, TN

RP-8 L1506358-36 GW

Collected by: Danielle Braund | Collected date/time: 06/15/22 15:20 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1883419	1	06/22/22 09:42	06/22/22 17:30	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891844	1	07/09/22 02:02	07/09/22 02:02	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:40	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 21:05	JDG	Mt. Juliet, TN

RP-9 L1506358-37 GW

Collected by: Danielle Braund | Collected date/time: 06/16/22 10:30 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1884165	1	06/23/22 09:43	06/23/22 15:25	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891844	1	07/09/22 02:17	07/09/22 02:17	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:42	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 21:09	JDG	Mt. Juliet, TN

RP-10 L1506358-38 GW

Collected by: Danielle Braund | Collected date/time: 06/16/22 08:42 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1884161	1	06/23/22 09:41	06/23/22 14:18	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891894	1	07/08/22 19:19	07/08/22 19:19	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891894	10	07/08/22 19:35	07/08/22 19:35	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:45	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 21:13	JDG	Mt. Juliet, TN

DUPLICATE RP-10 L1506358-39 GW

Collected by: Danielle Braund | Collected date/time: 06/16/22 08:42 | Received date/time: 06/17/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1884161	1	06/23/22 09:41	06/23/22 14:18	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891894	1	07/08/22 19:50	07/08/22 19:50	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1891894	10	07/08/22 20:05	07/08/22 20:05	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1887148	1	07/05/22 15:16	07/07/22 19:48	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1887167	1	07/06/22 20:49	07/07/22 21:34	JDG	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.

Mark W. Beasley
Project Manager

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.98	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	234		10.0	1	06/22/2022 17:30	WG1883419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	8.52		1.00	1	07/08/2022 17:03	WG1891559
Fluoride	ND		0.150	1	07/08/2022 17:03	WG1891559
Sulfate	52.5		5.00	1	07/08/2022 17:03	WG1891559

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 21:10	WG1887146

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	21.8		1.00	1	07/07/2022 22:01	WG1887164

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.06	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	183		10.0	1	06/21/2022 16:10	WG1882814

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	7.00		1.00	1	07/08/2022 03:14	WG1890898
Fluoride	ND		0.150	1	07/08/2022 03:14	WG1890898
Sulfate	19.1		5.00	1	07/08/2022 03:14	WG1890898

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 21:13	WG1887146

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	10.3		1.00	1	07/07/2022 22:05	WG1887164

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.31	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	122		10.0	1	06/20/2022 18:20	WG1882398

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	4.62		1.00	1	07/08/2022 05:14	WG1890741
Fluoride	ND		0.150	1	07/08/2022 05:14	WG1890741
Sulfate	39.5		5.00	1	07/08/2022 05:14	WG1890741

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 21:16	WG1887146

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	3.96		1.00	1	07/07/2022 22:08	WG1887164

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.82	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	248		10.0	1	06/20/2022 18:20	WG1882398

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	4.92		1.00	1	07/08/2022 05:41	WG1890741
Fluoride	ND		0.150	1	07/08/2022 05:41	WG1890741
Sulfate	71.7		5.00	1	07/08/2022 05:41	WG1890741

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.863		0.200	1	07/07/2022 21:19	WG1887146

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	15.5		1.00	1	07/07/2022 22:11	WG1887164

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.97	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	179		10.0	1	06/21/2022 16:10	WG1882814

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	3.95		1.00	1	07/08/2022 03:29	WG1890898
Fluoride	ND		0.150	1	07/08/2022 03:29	WG1890898
Sulfate	23.2		5.00	1	07/08/2022 03:29	WG1890898

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 08:45	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	14.6		1.00	1	07/06/2022 12:36	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.01	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	920		20.0	1	06/21/2022 16:10	WG1882814

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	11.0		1.00	1	07/08/2022 04:29	WG1890898
Fluoride	0.661		0.150	1	07/08/2022 04:29	WG1890898
Sulfate	633		50.0	10	07/08/2022 03:59	WG1890898

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	5.85		0.200	1	07/07/2022 08:48	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	30.0		1.00	1	07/06/2022 12:49	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.49	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	466		10.0	1	06/20/2022 18:20	WG1882398

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	8.57		1.00	1	07/08/2022 06:07	WG1890741
Fluoride	0.255		0.150	1	07/08/2022 06:07	WG1890741
Sulfate	244		50.0	10	07/08/2022 05:54	WG1890741

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	2.03		0.200	1	07/07/2022 08:51	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	16.7		1.00	1	07/06/2022 12:53	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.05	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1230		20.0	1	06/21/2022 18:33	WG1883051

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	10.3		1.00	1	07/08/2022 05:43	WG1890898
Fluoride	0.748		0.150	1	07/08/2022 05:43	WG1890898
Sulfate	804		50.0	10	07/08/2022 05:29	WG1890898

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	5.39		0.200	1	07/07/2022 08:53	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	115		1.00	1	07/06/2022 12:56	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.75	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	354	Q	10.0	1	07/14/2022 18:07	WG1895108

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	7.38		1.00	1	07/08/2022 17:30	WG1891559
Fluoride	ND		0.150	1	07/08/2022 17:30	WG1891559
Sulfate	77.4		5.00	1	07/08/2022 17:30	WG1891559

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 08:34	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	50.8		1.00	1	07/06/2022 12:59	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.17	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	406		10.0	1	06/21/2022 16:10	WG1882814

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	8.54		1.00	1	07/08/2022 05:58	WG1890898
Fluoride	ND		0.150	1	07/08/2022 05:58	WG1890898
Sulfate	33.8		5.00	1	07/08/2022 05:58	WG1890898

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.274		0.200	1	07/07/2022 09:01	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	69.2		1.00	1	07/06/2022 13:11	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.3	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	407		10.0	1	06/20/2022 14:22	WG1882167

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	9.17		1.00	1	07/08/2022 06:47	WG1890741
Fluoride	0.165		0.150	1	07/08/2022 06:47	WG1890741
Sulfate	76.7		5.00	1	07/08/2022 06:47	WG1890741

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.268		0.200	1	07/07/2022 09:04	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	50.4		1.00	1	07/06/2022 13:14	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.82	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	314		10.0	1	06/20/2022 18:20	WG1882398

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	10.8		1.00	1	07/08/2022 07:14	WG1890741
Fluoride	ND		0.150	1	07/08/2022 07:14	WG1890741
Sulfate	16.3		5.00	1	07/08/2022 07:14	WG1890741

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.242		0.200	1	07/07/2022 09:07	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	56.8		1.00	1	07/06/2022 13:17	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.61	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	343		10.0	1	06/21/2022 16:10	WG1882814

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	8.36		1.00	1	07/08/2022 06:13	WG1890898
Fluoride	ND		0.150	1	07/08/2022 06:13	WG1890898
Sulfate	28.7		5.00	1	07/08/2022 06:13	WG1890898

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.284		0.200	1	07/07/2022 09:10	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	56.8		1.00	1	07/06/2022 13:21	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.49	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	531		10.0	1	06/21/2022 14:23	WG1882719

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	6.06		1.00	1	07/08/2022 06:28	WG1890898
Fluoride	ND		0.150	1	07/08/2022 06:28	WG1890898
Sulfate	13.2		5.00	1	07/08/2022 06:28	WG1890898

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.305		0.200	1	07/07/2022 09:13	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	57.9		1.00	1	07/06/2022 13:24	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.36	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	383		10.0	1	06/21/2022 14:23	WG1882719

Sample Narrative:

L1506358-15 WG1882719: Anlysis was re-run to confirm.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	20.3		1.00	1	07/08/2022 06:43	WG1890898
Fluoride	ND		0.150	1	07/08/2022 06:43	WG1890898
Sulfate	128		5.00	1	07/08/2022 06:43	WG1890898

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.324		0.200	1	07/07/2022 09:15	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	85.0		1.00	1	07/06/2022 13:28	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.38	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	501		10.0	1	06/21/2022 16:10	WG1882814

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	13.5		1.00	1	07/08/2022 06:58	WG1890898
Fluoride	ND		0.150	1	07/08/2022 06:58	WG1890898
Sulfate	58.1		5.00	1	07/08/2022 06:58	WG1890898

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.339		0.200	1	07/07/2022 09:18	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	72.1		1.00	1	07/06/2022 13:31	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.97	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	559		10.0	1	06/21/2022 14:23	WG1882719

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	6.91		1.00	1	07/08/2022 07:13	WG1890898
Fluoride	ND		0.150	1	07/08/2022 07:13	WG1890898
Sulfate	49.3		5.00	1	07/08/2022 07:13	WG1890898

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.312		0.200	1	07/07/2022 09:21	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	49.9		1.00	1	07/06/2022 13:34	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.28	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	332		10.0	1	06/20/2022 18:20	WG1882398

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	7.50		1.00	1	07/08/2022 07:54	WG1890741
Fluoride	ND		0.150	1	07/08/2022 07:54	WG1890741
Sulfate	40.5		5.00	1	07/08/2022 07:54	WG1890741

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.306		0.200	1	07/07/2022 09:24	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	47.0		1.00	1	07/06/2022 13:38	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.15	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	270		10.0	1	06/22/2022 17:30	WG1883419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	6.49		1.00	1	07/08/2022 17:43	WG1891559
Fluoride	ND		0.150	1	07/08/2022 17:43	WG1891559
Sulfate	ND		5.00	1	07/08/2022 17:43	WG1891559

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.278		0.200	1	07/07/2022 09:27	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	37.0		1.00	1	07/06/2022 13:41	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.97	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1170		20.0	1	06/21/2022 14:23	WG1882719

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	14.4		1.00	1	07/08/2022 07:28	WG1890898
Fluoride	ND		0.150	1	07/08/2022 07:28	WG1890898
Sulfate	609		50.0	10	07/12/2022 11:45	WG1890898

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.484		0.200	1	07/07/2022 09:35	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	198		1.00	1	07/06/2022 13:53	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.97	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	319		10.0	1	06/22/2022 16:01	WG1883409

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	8.95		1.00	1	07/08/2022 18:10	WG1891559
Fluoride	ND		0.150	1	07/08/2022 18:10	WG1891559
Sulfate	29.7		5.00	1	07/08/2022 18:10	WG1891559

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.280		0.200	1	07/07/2022 09:38	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	53.1		1.00	1	07/06/2022 13:56	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.7	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	342		10.0	1	06/21/2022 18:33	WG1883051

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	4.95		1.00	1	07/08/2022 07:43	WG1890898
Fluoride	ND		0.150	1	07/08/2022 07:43	WG1890898
Sulfate	ND		5.00	1	07/08/2022 07:43	WG1890898

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.336		0.200	1	07/07/2022 09:41	WG1887147

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	43.6		1.00	1	07/06/2022 13:59	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.62	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	585	J4	10.0	1	06/22/2022 14:52	WG1883415

Sample Narrative:

L1506358-23 WG1883415: Anlysis was re-run to confirm.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	9.45		1.00	1	07/08/2022 18:37	WG1891559
Fluoride	ND		0.150	1	07/08/2022 18:37	WG1891559
Sulfate	168		5.00	1	07/08/2022 18:37	WG1891559

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.285		0.200	1	07/07/2022 22:20	WG1891121

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	91.2		1.00	1	07/06/2022 14:03	WG1887166

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.77	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	ND		10.0	1	06/21/2022 16:10	WG1882814

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	ND		1.00	1	07/08/2022 15:20	WG1890900
Fluoride	ND		0.150	1	07/08/2022 15:20	WG1890900
Sulfate	ND		5.00	1	07/08/2022 15:20	WG1890900

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 22:23	WG1891121

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	ND		1.00	1	07/06/2022 14:06	WG1887166

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	496		10.0	1	06/21/2022 18:33	WG1883051

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	13.9		1.00	1	07/08/2022 17:34	WG1890900
Fluoride	ND		0.150	1	07/08/2022 17:34	WG1890900
Sulfate	61.1		5.00	1	07/08/2022 17:34	WG1890900

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.340		0.200	1	07/07/2022 18:57	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	69.0		1.00	1	07/07/2022 20:07	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.38	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	ND		10.0	1	06/22/2022 16:01	WG1883409

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	ND		1.00	1	07/08/2022 19:17	WG1891559
Fluoride	ND		0.150	1	07/08/2022 19:17	WG1891559
Sulfate	ND		5.00	1	07/08/2022 19:17	WG1891559

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 19:07	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	ND		1.00	1	07/07/2022 20:11	WG1887167

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	212		10.0	1	06/22/2022 17:30	WG1883419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	8.02		1.00	1	07/08/2022 19:30	WG1891559
Fluoride	ND		0.150	1	07/08/2022 19:30	WG1891559
Sulfate	49.6		5.00	1	07/08/2022 19:30	WG1891559

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 19:10	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	21.8		1.00	1	07/07/2022 20:15	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.98	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	237		10.0	1	06/20/2022 18:20	WG1882398

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	6.66		1.00	1	07/08/2022 08:08	WG1890741
Fluoride	ND		0.150	1	07/08/2022 08:08	WG1890741
Sulfate	74.6		5.00	1	07/08/2022 08:08	WG1890741

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.877		0.200	1	07/07/2022 19:12	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	16.3		1.00	1	07/07/2022 20:18	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.82	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2700		100	1	06/22/2022 17:30	WG1883419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	452		10.0	10	07/08/2022 19:57	WG1891559
Fluoride	1.85		0.150	1	07/08/2022 20:11	WG1891559
Sulfate	2400		500	100	07/08/2022 19:44	WG1891559

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 19:15	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	335		1.00	1	07/07/2022 20:39	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	3.67	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	305		10.0	1	06/22/2022 17:30	WG1883419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	19.3		1.00	1	07/09/2022 00:17	WG1891844
Fluoride	ND		0.150	1	07/09/2022 00:17	WG1891844
Sulfate	113		5.00	1	07/09/2022 00:17	WG1891844

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 19:23	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	16.4		1.00	1	07/07/2022 20:42	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.3	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1990		50.0	1	06/23/2022 14:18	WG1884161

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	173		1.00	1	07/09/2022 01:02	WG1891844
Fluoride	0.780		0.150	1	07/09/2022 01:02	WG1891844
Sulfate	1210		50.0	10	07/09/2022 00:47	WG1891844

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 19:26	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	187		1.00	1	07/07/2022 20:46	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	3.14	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	526		10.0	1	06/23/2022 15:25	WG1884165

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	68.9		1.00	1	07/09/2022 01:17	WG1891844
Fluoride	0.281		0.150	1	07/09/2022 01:17	WG1891844
Sulfate	207	E	5.00	1	07/09/2022 01:17	WG1891844

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.269		0.200	1	07/07/2022 19:29	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	57.5		1.00	1	07/07/2022 20:50	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.58	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	474	J4	10.0	1	06/22/2022 14:52	WG1883415

Sample Narrative:

L1506358-33 WG1883415: Anlysis was re-run to confirm.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	41.5		1.00	1	07/09/2022 01:32	WG1891844
Fluoride	0.290		0.150	1	07/09/2022 01:32	WG1891844
Sulfate	226	E	5.00	1	07/09/2022 01:32	WG1891844

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 19:32	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	35.9		1.00	1	07/07/2022 20:54	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	3.88	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1850		25.0	1	06/20/2022 18:20	WG1882398

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	37.1		1.00	1	07/08/2022 08:35	WG1890741
Fluoride	1.07		0.150	1	07/08/2022 08:35	WG1890741
Sulfate	1210		500	100	07/08/2022 08:21	WG1890741

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.574		0.200	1	07/07/2022 19:34	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	273		1.00	1	07/07/2022 20:57	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	3.79	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	437		10.0	1	06/22/2022 17:30	WG1883419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	7.04		1.00	1	07/09/2022 01:47	WG1891844
Fluoride	0.345		0.150	1	07/09/2022 01:47	WG1891844
Sulfate	235	E	5.00	1	07/09/2022 01:47	WG1891844

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 19:37	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	35.8		1.00	1	07/07/2022 21:01	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	4.31	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	765		13.3	1	06/22/2022 17:30	WG1883419

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	52.7		1.00	1	07/09/2022 02:02	WG1891844
Fluoride	0.339		0.150	1	07/09/2022 02:02	WG1891844
Sulfate	452	E	5.00	1	07/09/2022 02:02	WG1891844

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.608		0.200	1	07/07/2022 19:40	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	82.6		1.00	1	07/07/2022 21:05	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.53	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	181		10.0	1	06/23/2022 15:25	WG1884165

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	3.73		1.00	1	07/09/2022 02:17	WG1891844
Fluoride	0.158		0.150	1	07/09/2022 02:17	WG1891844
Sulfate	21.1		5.00	1	07/09/2022 02:17	WG1891844

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	07/07/2022 19:42	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	24.6		1.00	1	07/07/2022 21:09	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	3.8	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1180		20.0	1	06/23/2022 14:18	WG1884161

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	64.7		1.00	1	07/08/2022 19:19	WG1891894
Fluoride	0.437		0.150	1	07/08/2022 19:19	WG1891894
Sulfate	737		50.0	10	07/08/2022 19:35	WG1891894

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.635		0.200	1	07/07/2022 19:45	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	97.9		1.00	1	07/07/2022 21:13	WG1887167

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	3.8	su

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1220		20.0	1	06/23/2022 14:18	WG1884161

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	64.4		1.00	1	07/08/2022 19:50	WG1891894
Fluoride	0.435		0.150	1	07/08/2022 19:50	WG1891894
Sulfate	751		50.0	10	07/08/2022 20:05	WG1891894

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.673		0.200	1	07/07/2022 19:48	WG1887148

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	99.4		1.00	1	07/07/2022 21:34	WG1887167

Method Blank (MB)

(MB) R3806898-1 06/20/22 14:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1504374-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1504374-04 06/20/22 14:22 • (DUP) R3806898-3 06/20/22 14:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2970	3170	1	6.25	J3	5

L1504425-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1504425-02 06/20/22 14:22 • (DUP) R3806898-4 06/20/22 14:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	260	131	1	66.0	J3	5

Laboratory Control Sample (LCS)

(LCS) R3806898-2 06/20/22 14:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	2440	2310	94.7	81.5-118	

Method Blank (MB)

(MB) R3806879-1 06/20/22 18:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1504970-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1504970-04 06/20/22 18:20 • (DUP) R3806879-3 06/20/22 18:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	756	788	1	4.15		5

L1504987-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1504987-01 06/20/22 18:20 • (DUP) R3806879-4 06/20/22 18:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1790	2090	1	15.7	J3	5

Laboratory Control Sample (LCS)

(LCS) R3806879-2 06/20/22 18:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	2440	2270	93.0	81.5-118	

Method Blank (MB)

(MB) R3807924-1 06/21/22 14:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1504970-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1504970-03 06/21/22 14:23 • (DUP) R3807924-3 06/21/22 14:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	653	645	1	1.23		5

L1504998-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1504998-02 06/21/22 14:23 • (DUP) R3807924-4 06/21/22 14:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	804	785	1	2.35		5

Laboratory Control Sample (LCS)

(LCS) R3807924-2 06/21/22 14:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	2440	2620	107	81.5-118	

Method Blank (MB)

(MB) R3806785-1 06/21/22 16:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1504970-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1504970-01 06/21/22 16:10 • (DUP) R3806785-3 06/21/22 16:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	532	564	1	5.84	J3	5

L1504998-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1504998-01 06/21/22 16:10 • (DUP) R3806785-4 06/21/22 16:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	641	669	1	4.27		5

Laboratory Control Sample (LCS)

(LCS) R3806785-2 06/21/22 16:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	2440	2330	95.5	81.5-118	

Method Blank (MB)

(MB) R3806886-1 06/21/22 18:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1505122-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1505122-06 06/21/22 18:33 • (DUP) R3806886-3 06/21/22 18:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1180	1310	1	10.7	J3	5

L1506358-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1506358-08 06/21/22 18:33 • (DUP) R3806886-4 06/21/22 18:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1230	1210	1	1.97		5

Laboratory Control Sample (LCS)

(LCS) R3806886-2 06/21/22 18:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	2440	2390	98.0	81.5-118	

Method Blank (MB)

(MB) R3807897-1 06/22/22 16:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1505598-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1505598-03 06/22/22 16:01 • (DUP) R3807897-3 06/22/22 16:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	771	813	1	5.39	J3	5

L1505619-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1505619-02 06/22/22 16:01 • (DUP) R3807897-4 06/22/22 16:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	462	465	1	0.647		5

Laboratory Control Sample (LCS)

(LCS) R3807897-2 06/22/22 16:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	2440	2350	96.3	81.5-118	

Method Blank (MB)

(MB) R3807845-1 06/22/22 14:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1505598-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1505598-02 06/22/22 14:52 • (DUP) R3807845-3 06/22/22 14:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	784	744	1	5.24	J3	5

Sample Narrative:

OS: In hold analysis confirmed with OOH analysis with passing QC.

L1506281-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1506281-05 06/22/22 14:52 • (DUP) R3807845-4 06/22/22 14:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	707	688	1	2.68		5

Sample Narrative:

OS: Analysis was re-run to confirm.

Laboratory Control Sample (LCS)

(LCS) R3807845-2 06/22/22 14:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	2440	2990	123	81.5-118	J4

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

Method Blank (MB)

(MB) R3809608-1 06/22/22 17:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1504150-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1504150-13 06/22/22 17:30 • (DUP) R3809608-3 06/22/22 17:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	411	417	1	1.45		5

Sample Narrative:

OS: OOH analysis did not match in hold analysis.

L1506358-36 Original Sample (OS) • Duplicate (DUP)

(OS) L1506358-36 06/22/22 17:30 • (DUP) R3809608-4 06/22/22 17:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	765	779	1	1.73		5

Laboratory Control Sample (LCS)

(LCS) R3809608-2 06/22/22 17:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	2440	2640	108	81.5-118	

Method Blank (MB)

(MB) R3808521-1 06/23/22 14:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1506144-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1506144-08 06/23/22 14:18 • (DUP) R3808521-3 06/23/22 14:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1240	1300	1	4.73		5

L1506144-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1506144-10 06/23/22 14:18 • (DUP) R3808521-4 06/23/22 14:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1110	1090	1	2.19		5

Laboratory Control Sample (LCS)

(LCS) R3808521-2 06/23/22 14:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	2440	2480	102	81.5-118	

Method Blank (MB)

(MB) R3807822-1 06/23/22 15:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1506144-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1506144-01 06/23/22 15:25 • (DUP) R3807822-3 06/23/22 15:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2920	2850	1	2.25		5

L1506144-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1506144-06 06/23/22 15:25 • (DUP) R3807822-4 06/23/22 15:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1120	1030	1	8.92	J3	5

Laboratory Control Sample (LCS)

(LCS) R3807822-2 06/23/22 15:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	2440	2650	109	81.5-118	

Method Blank (MB)

(MB) R3815647-1 07/14/22 18:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1510093-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1510093-01 07/14/22 18:07 • (DUP) R3815647-3 07/14/22 18:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1180	1230	1	3.99		5

L1510093-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1510093-12 07/14/22 18:07 • (DUP) R3815647-4 07/14/22 18:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1490	1520	1	2.13		5

Laboratory Control Sample (LCS)

(LCS) R3815647-2 07/14/22 18:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	7520	85.5	77.3-123	

Method Blank (MB)

(MB) R3812732-1 07/07/22 22:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1503454-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1503454-05 07/07/22 23:26 • (DUP) R3812732-3 07/07/22 23:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	48.1	46.3	5	3.74		15
Fluoride	ND	ND	5	0.387		15
Sulfate	51.9	50.1	5	3.54		15

L1506358-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1506358-11 07/08/22 06:47 • (DUP) R3812732-11 07/08/22 07:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	9.17	8.27	1	10.3		15
Fluoride	0.165	0.173	1	5.03		15
Sulfate	76.7	74.5	1	2.96		15

Laboratory Control Sample (LCS)

(LCS) R3812732-2 07/07/22 22:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.3	101	80.0-120	
Fluoride	8.00	8.39	105	80.0-120	
Sulfate	40.0	41.1	103	80.0-120	

L1506358-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506358-12 07/08/22 07:14 • (MS) R3812732-12 07/08/22 07:28 • (MSD) R3812732-13 07/08/22 07:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	10.8	61.4	62.7	101	104	1	80.0-120			2.14	15
Fluoride	5.00	ND	5.41	5.59	107	110	1	80.0-120			3.24	15
Sulfate	50.0	16.3	68.4	69.1	104	106	1	80.0-120			1.11	15

L1506329-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506329-03 07/09/22 04:05 • (MS) R3812852-1 07/09/22 04:20 • (MSD) R3812852-2 07/09/22 04:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	3.60	55.1	55.5	103	104	1	80.0-120			0.825	15
Fluoride	5.00	ND	5.18	5.23	101	103	1	80.0-120			1.06	15
Sulfate	50.0	35.3	84.3	84.8	98.0	99.0	1	80.0-120			0.604	15

Method Blank (MB)

(MB) R3813385-1 07/07/22 23:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1506358-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1506358-06 07/08/22 03:59 • (DUP) R3813385-7 07/08/22 04:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	633	634	10	0.206		15

L1506329-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1506329-15 07/08/22 00:44 • (DUP) R3813385-5 07/08/22 00:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	20.5	20.4	1	0.398		15
Fluoride	ND	ND	1	0.000		15
Sulfate	131	131	1	0.333		15

L1506358-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1506358-06 07/08/22 04:29 • (DUP) R3813385-8 07/08/22 04:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	11.0	10.7	1	3.53		15
Fluoride	0.661	0.721	1	8.55		15

Laboratory Control Sample (LCS)

(LCS) R3813385-2 07/07/22 23:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.4	98.4	80.0-120	
Fluoride	8.00	8.15	102	80.0-120	
Sulfate	40.0	39.6	98.9	80.0-120	

L1506329-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506329-14 07/08/22 00:00 • (MS) R3813385-3 07/08/22 00:15 • (MSD) R3813385-4 07/08/22 00:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	5.81	56.4	57.2	101	103	1	80.0-120			1.36	15
Fluoride	5.00	ND	5.00	5.08	98.0	99.6	1	80.0-120			1.60	15
Sulfate	50.0	12.8	63.7	63.6	102	102	1	80.0-120			0.0299	15

L1506358-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1506358-05 07/08/22 03:29 • (MS) R3813385-6 07/08/22 03:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	3.95	55.3	103	1	80.0-120	
Fluoride	5.00	ND	5.06	99.4	1	80.0-120	
Sulfate	50.0	23.2	74.0	102	1	80.0-120	

Method Blank (MB)

(MB) R3813932-1 07/08/22 09:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1506281-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1506281-06 07/08/22 13:05 • (DUP) R3813932-5 07/08/22 13:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	72.9	73.3	1	0.431		15
Fluoride	0.226	0.229	1	1.05		15
Sulfate	69.1	69.3	1	0.247		15

L1506389-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1506389-04 07/08/22 16:34 • (DUP) R3813932-7 07/08/22 16:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	83.1	83.0	1	0.165		15
Fluoride	0.152	0.153	1	0.985		15
Sulfate	320	320	1	0.0745	E	15

Laboratory Control Sample (LCS)

(LCS) R3813932-2 07/08/22 09:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.7	96.8	80.0-120	
Fluoride	8.00	8.05	101	80.0-120	
Sulfate	40.0	41.1	103	80.0-120	

L1506276-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506276-07 07/08/22 11:06 • (MS) R3813932-3 07/08/22 11:20 • (MSD) R3813932-4 07/08/22 11:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	900	1420	1430	103	107	10	80.0-120			1.36	15
Fluoride	50.0	ND	52.4	52.0	103	102	10	80.0-120			0.828	15
Sulfate	500	350	896	900	109	110	10	80.0-120			0.486	15

L1506329-19 Original Sample (OS) • Matrix Spike (MS)

(OS) L1506329-19 07/08/22 14:34 • (MS) R3813932-6 07/08/22 14:49

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	5.58	55.4	99.7	1	80.0-120	
Fluoride	5.00	ND	5.17	102	1	80.0-120	
Sulfate	50.0	ND	53.2	104	1	80.0-120	

Method Blank (MB)

(MB) R3813188-1 07/08/22 11:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	0.781	J	0.594	5.00

L1506329-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1506329-27 07/08/22 12:22 • (DUP) R3813188-5 07/08/22 12:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	8.14	7.99	1	1.79		15
Fluoride	ND	ND	1	1.11		15
Sulfate	49.4	51.0	1	3.25		15

L1506358-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1506358-19 07/08/22 17:43 • (DUP) R3813188-7 07/08/22 17:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	6.49	5.94	1	8.79		15
Fluoride	ND	ND	1	6.05		15
Sulfate	ND	ND	1	11.0		15

Laboratory Control Sample (LCS)

(LCS) R3813188-2 07/08/22 11:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	41.2	103	80.0-120	
Fluoride	8.00	8.66	108	80.0-120	
Sulfate	40.0	42.3	106	80.0-120	

L1506329-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506329-26 07/08/22 11:41 • (MS) R3813188-3 07/08/22 11:55 • (MSD) R3813188-4 07/08/22 12:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	ND	49.8	51.4	97.7	101	1	80.0-120			3.08	15
Fluoride	5.00	ND	5.10	5.26	102	105	1	80.0-120			3.04	15
Sulfate	50.0	ND	50.2	51.9	100	104	1	80.0-120			3.37	15

L1506358-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1506358-01 07/08/22 17:03 • (MS) R3813188-6 07/08/22 17:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	8.52	58.2	99.4	1	80.0-120	
Fluoride	5.00	ND	5.30	105	1	80.0-120	
Sulfate	50.0	52.5	101	97.4	1	80.0-120	

Method Blank (MB)

(MB) R3813933-1 07/08/22 18:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1506353-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1506353-01 07/08/22 19:34 • (DUP) R3813933-5 07/08/22 19:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	449	450	1	0.255	E	15
Fluoride	1.76	1.74	1	1.10		15
Sulfate	2570	2570	1	0.130	E	15

L1506353-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1506353-11 07/08/22 23:03 • (DUP) R3813933-7 07/08/22 23:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	64.2	64.3	1	0.243		15
Fluoride	0.454	0.466	1	2.52		15
Sulfate	793	795	1	0.221	E	15

Laboratory Control Sample (LCS)

(LCS) R3813933-2 07/08/22 18:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.0	97.6	80.0-120	
Fluoride	8.00	8.06	101	80.0-120	
Sulfate	40.0	41.3	103	80.0-120	

L1506306-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506306-04 07/08/22 18:49 • (MS) R3813933-3 07/08/22 19:04 • (MSD) R3813933-4 07/08/22 19:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1.86	52.0	52.0	100	100	1	80.0-120			0.0610	15
Fluoride	5.00	ND	4.64	4.90	90.9	96.2	1	80.0-120			5.61	15
Sulfate	50.0	492	522	520	58.4	55.5	1	80.0-120	E V	E V	0.283	15

L1506353-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1506353-10 07/08/22 22:33 • (MS) R3813933-6 07/08/22 22:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	64.6	112	95.7	1	80.0-120	
Fluoride	5.00	0.439	5.51	101	1	80.0-120	
Sulfate	50.0	795	824	58.7	1	80.0-120	E V

Method Blank (MB)

(MB) R3812838-1 07/08/22 18:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1506429-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1506429-02 07/08/22 20:52 • (DUP) R3812838-3 07/08/22 21:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	83.4	84.5	1	1.30		15
Fluoride	0.515	0.511	1	0.760		15
Sulfate	33.4	33.4	1	0.146		15

L1506614-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1506614-01 07/09/22 01:51 • (DUP) R3812838-6 07/09/22 02:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.78	1.74	1	2.05		15
Sulfate	154	154	1	0.273		15

Laboratory Control Sample (LCS)

(LCS) R3812838-2 07/08/22 19:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.6	96.4	80.0-120	
Fluoride	8.00	7.96	99.5	80.0-120	
Sulfate	40.0	37.9	94.8	80.0-120	

L1506569-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506569-03 07/08/22 22:55 • (MS) R3812838-4 07/08/22 23:11 • (MSD) R3812838-5 07/09/22 00:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1.76	51.5	52.2	99.4	101	1	80.0-120			1.45	15
Fluoride	5.00	ND	5.01	5.13	98.4	101	1	80.0-120			2.22	15

L1506569-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506569-03 07/08/22 22:55 • (MS) R3812838-4 07/08/22 23:11 • (MSD) R3812838-5 07/09/22 00:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	50.0	ND	52.1	52.3	97.8	98.2	1	80.0-120			0.428	15

L1506632-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1506632-05 07/09/22 03:24 • (MS) R3812838-7 07/09/22 03:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	1.65	52.8	102	1	80.0-120	
Fluoride	5.00	ND	5.09	102	1	80.0-120	
Sulfate	50.0	ND	53.1	100	1	80.0-120	

Method Blank (MB)

(MB) R3812241-1 07/07/22 20:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3812241-2 07/07/22 20:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.948	94.8	80.0-120	

L1506353-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506353-07 07/07/22 20:06 • (MS) R3812241-4 07/07/22 20:11 • (MSD) R3812241-5 07/07/22 20:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	ND	1.13	1.13	96.3	96.3	1	75.0-125			0.0130	20

Method Blank (MB)

(MB) R3811949-1 07/07/22 08:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3811949-2 07/07/22 08:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.952	95.2	80.0-120	

L1506358-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506358-09 07/07/22 08:34 • (MS) R3811949-4 07/07/22 08:40 • (MSD) R3811949-5 07/07/22 08:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	ND	1.11	1.11	94.3	94.5	1	75.0-125			0.173	20

Method Blank (MB)

(MB) R3812235-6 07/07/22 18:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3812235-7 07/07/22 18:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.955	95.5	80.0-120	

L1506358-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506358-25 07/07/22 18:57 • (MS) R3812235-9 07/07/22 19:02 • (MSD) R3812235-10 07/07/22 19:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	0.340	1.17	1.21	83.3	86.8	1	75.0-125			2.88	20

Method Blank (MB)

(MB) R3812264-1 07/07/22 22:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3812264-2 07/07/22 22:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.945	94.5	80.0-120	

L1506439-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506439-01 07/07/22 22:09 • (MS) R3812264-4 07/07/22 22:14 • (MSD) R3812264-5 07/07/22 22:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	ND	1.01	0.999	96.5	95.7	1	75.0-125			0.769	20

Method Blank (MB)

(MB) R3812229-1 07/07/22 20:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Calcium	U		0.0936	1.00

Laboratory Control Sample (LCS)

(LCS) R3812229-2 07/07/22 20:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	5.00	4.49	89.8	80.0-120	

L1506329-36 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506329-36 07/07/22 20:38 • (MS) R3812229-4 07/07/22 20:45 • (MSD) R3812229-5 07/07/22 20:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	5.00	80.7	86.1	84.0	109	67.1	1	75.0-125		V	2.46	20

Method Blank (MB)

(MB) R3811425-1 07/06/22 12:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Calcium	0.112	J	0.0936	1.00

Laboratory Control Sample (LCS)

(LCS) R3811425-2 07/06/22 12:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	5.00	5.28	106	80.0-120	

L1506358-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506358-05 07/06/22 12:36 • (MS) R3811425-4 07/06/22 12:42 • (MSD) R3811425-5 07/06/22 12:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	5.00	14.6	20.4	20.5	115	118	1	75.0-125			0.750	20

QUALITY CONTROL SUMMARY

L1506358-25,26,27,28,29,30,31,32,33,34,35,36,37,38,39

Method Blank (MB)

(MB) R3812303-1 07/07/22 19:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Calcium	U		0.0936	1.00

Laboratory Control Sample (LCS)

(LCS) R3812303-2 07/07/22 19:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	5.00	4.98	99.6	80.0-120	

L1506569-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506569-03 07/07/22 19:52 • (MS) R3812303-4 07/07/22 19:59 • (MSD) R3812303-5 07/07/22 20:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	5.00	3.24	7.74	8.25	89.8	100	1	75.0-125			6.38	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.
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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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.

COC1

Page 1 of 5

Chain of Custody

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MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
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 # L1506358
A116

Acctnum: GBMCBAR
Template: T198831
Prelogin: P929293
PM: 134 - Mark W. Beasley
PB: 5/31/22 JCD
Shipped Via: FedEX Ground

Company Name/Address:
GBMc & Associates - Bryant, AR
219 Brown Lane
Bryant, AR 72022

Billing Information:
Accounts Payable
219 Brown Ln.
Bryant, AR 72022

Pres Chk

Report to: Jonathan Brown

Email To: jbrown@gbmcassoc.com;dbraund@gbmcassoc.

Project Description: Entergy - White Bluff

City/State Collected: Redfield, AR

Please Circle: PT MT (CT) ET

Phone: 501-847-7077

Client Project # 1145-21-080

Lab Project # GBMCBAR-ENTERGYWB

Collected by (print): Danielle Braund

Site/Facility ID # CADL - CCR

P.O. #

Collected by (signature): DanielleBraund

Immediately Packed on Ice N ___ Y X

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	B, Ca 250mlHDPE-HNO3	Cl, F, SO4, TDS 250mlHDPE-NoPres							Remarks	Sample # (lab only)
MW-101S	Grab	GW	36.1	6/15/22	1050	2	X	X							5.98	-01
MW-102S		GW	33.0	6/14/22	1630	2	X	X							6.06	-02
MW-103S		GW	14.3	6/13/22	1302	2	X	X							4.31	-03
MW-104S		GW	28.2	6/13/22	1700	2	X	X							4.82	-04
MW-105S		GW	26.3	6/14/22	0845	2	X	X							5.97	-05
MW-106S		GW	9.6	6/14/22	0935	2	X	X							4.01	-06
MW-110S		GW	9.0	6/13/22	1507	2	X	X							5.49	-07
MW-111S		GW	12.7	6/14/22	1015	2	X	X							4.05	-08
MW-101D		GW	96.8	6/15/22	0905	2	X	X							7.75	-09
MW-102D	↓	GW	91.3	6/14/22	1748	2	X	X							8.17	-10

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

Remarks: Final pH in 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)	Trip Blank Received: Yes / (No) HCL / MeoH TBR	If preservation required by Login: Date/Time
DanielleBraund	6/16/22	1500			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 78	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/17/22 Time: 900	Hold: Condition: NCF / (OK)

Company Name/Address:
GBMc & Associates - Bryant, AR

219 Brown Lane
Bryant, AR 72022

Billing Information:
Accounts Payable
219 Brown Ln.
Bryant, AR 72022

Pres Chk

Report to: Jonathan Brown

Email To: jbrown@gbmcassoc.com;dbraund@gbmcassoc.

Project Description: Entergy - White Bluff

City/State Collected: Redfield, AR

Please Circle: PT MT (CT) ET

Phone: 501-847-7077

Client Project # 1145-21-080

Lab Project # GBMCBAR-ENTERGYWB

Collected by (print): Danielle Braund

Site/Facility ID # CADL - CCR

P.O. #

Collected by (signature): Danielle Braund

Immediately Packed on Ice N ___ Y X

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

Analysis / Container / Preservative

Chain of Custody Page 2 of 5

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SDG # L506358

Table #

Acctnum: GBMCBAR
Template: T198831
Prelogin: P929293
PM: 134 - Mark W. Beasley
PB: 5/31/22 JDD
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	B, Ca 250mlHDPE-HNO3	Cl, F, SO4, TDS 250mlHDPE-NoPres								Remarks	Sample # (lab only)
MW-103D	Grab	GW	41.2	6/13/22	1427	2	X	X								8.30	-11
MW-104D		GW	86.7	6/13/22	1726	2	X	X								7.82	-12
MW-105D		GW	80.0	6/14/22	0905	2	X	X								8.61	-13
MW-106D		GW	41.9	6/14/22	1110	2	X	X								8.49	-14
MW-107D		GW	20.5	6/14/22	1105	2	X	X								7.36	-15
MW-108D		GW	45.3	6/14/22	1245	2	X	X								8.38	-16
MW-109D		GW	79.1	6/14/22	1545	2	X	X								7.97	-17
MW-110D		GW	32.2	6/13/22	1541	2	X	X								8.28	-18
~~MW-111D~~		~~GW~~	—	—	—	—	—	—									
MW-112D		GW	87.6	6/15/22	1620	2	X	X								8.15	-19

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

Remarks: Final pH in 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)	Trip Blank Received: Yes / No HCL / MeoH TBR
Danielle Braund	6/16/22	1500		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 78
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/17/22 Time: 900
				Hold: Condition: NCF / OK

Company Name/Address:
GBMc & Associates - Bryant, AR
219 Brown Lane
Bryant, AR 72022

Billing Information:
Accounts Payable
219 Brown Ln.
Bryant, AR 72022

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 3 of 5

Pace PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
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Report to: Jonathan Brown

Email To: jbrown@gbmcassoc.com;dbraund@gbmcassoc.

Project Description: Entergy - White Bluff

City/State Collected: Redfield, AR

Please Circle: PT MT (CT) ET

Phone: 501-847-7077

Client Project # 1145-21-080

Lab Project # GBMCBAR-ENTERGYWB

SDG # L1506358

Table #

Collected by (print): Danielle Braund

Site/Facility ID # CADL - CCR

P.O. #

Acctnum: GBMCBAR
Template: T198831
Prelogin: P929293
PM: 134 - Mark W. Beasley
PB: 5/31/22 [illegible]
Shipped Via: FedEX Ground

Collected by (signature): Danielle Braund

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

Immediately Packed on Ice N ___ Y X

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	B, Ca 250mlHDPE-HNO3	Cl, F, SO4, TDS 250mlHDPE-NoPres								Remarks	Sample # (lab only)
MW-113D	Grab	GW	9.5	6/14/22	1235	2	X	X								6.97	-20
MW-114D	↓	GW	60.4	6/15/22	1815	2	X	X								8.70	-21
MW-115D	↓	GW	74.2	6/14/22	1415	2	X	X								8.62	-22
MW-118D	↓	GW	41.0	6/15/22	1330	2	X	X								7.77	-23
FIELD BLANK 1	—	GW	—	6/14/22	0850	2	X	X								DI H_2O	-24
DUPLICATE 1 108D	Grab	GW	45.3	6/14/22	1245	2	X	X								8.38	-25
FIELD BLANK 2	—	GW	—	6/15/22	0800	2	X	X								DI H_2O	-26
DUPLICATE 2 101S	Grab	GW	36.1	6/15/22	1050	2	X	X								5.98	-27
~~FIELD BLANK 3~~		~~GW~~														~~[illegible]~~	
DUPLICATE 3 104S	Grab	GW	28.2	6/13/22	1700	2	X	X								4.82	-28

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

Remarks: Final pH in 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)	Trip Blank Received: Yes / (No) HCL / MeoH TBR
Danielle Braund	6/16/22	1500		

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C	Bottles Received:	If preservation required by Login: Date/Time
					78	

Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	Hold:	Condition: NCF / (OK)
			[signature]	6/17/22	900		

Company Name/Address:
GBMc & Associates - Bryant, AR

219 Brown Lane
Bryant, AR 72022

Billing Information:
Accounts Payable
219 Brown Ln.
Bryant, AR 72022

Pres Chk

Report to:
Jonathan Brown

Email To:
jbrown@gbmcassoc.com;dbraund@gbmcassoc.

Project Description:
Entergy - White Bluff

City/State Collected: Redfield, AR

Please Circle: PT MT (CT) ET

Phone: **501-847-7077**

Client Project #
1145-21-080

Lab Project #
GBMCBAR-ENTERGYWB

Collected by (print):
Danielle Braund

Site/Facility ID #
RECYCLE PONDS

P.O. #

Collected by (signature):
Danielle Braund

Immediately Packed on Ice N ___ Y X

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

Analysis / Container / Preservative

Chain of Custody Page 4 of 5

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
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 # L506358

Table #

Acctnum: **GBMCBAR**
Template: **T198822**
Prelogin: **P929295**
PM: **134 - Mark W. Beasley**
PB: **Bf 5/31/22**
Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	B, Ca 250mlHDPE-HNO3	Cl, F, SO4, TDS 250mlHDPE-NoPres	Remarks	Sample # (lab only)
RP-1	Grab	GW	8.8	6/15/22	1346	2	X	X	3.67	-29
RP-2		GW	14.9	6/15/22	1220	2	X	X	4.30	-30
RP-3		GW	7.7	6/16/22	0905	2	X	X	3.14	-31
RP-4		GW	9.0	6/16/22	1015	2	X	X	5.58	-32
RP-5		GW	9.0	6/15/22	1745	2	X	X	3.88	-33
RP-6		GW	11.4	6/13/22	1045	2	X	X	4.75	-34
RP-7		GW	13.0	6/15/22	1630	2	X	X	3.79	-35
RP-8		GW	10.7	6/15/22	1520	2	X	X	4.31	-36
RP-9		GW	9.1	6/16/22	1030	2	X	X	6.53	-37
RP-10		GW	8.2	6/16/22	0842	2	X	X	3.80	-38

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

Remarks: Final pH in 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)	Trip Blank Received: Yes / (No) HCL / MeoH TBR
Danielle Braund	6/16/22	1500		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 78
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/17/22 Time: 900
				Hold: Condition: NCF / (OK)

Company Name/Address:
GBMc & Associates - Bryant, AR

219 Brown Lane
Bryant, AR 72022

Billing Information:
Accounts Payable
219 Brown Ln.
Bryant, AR 72022

Pres Chk

Report to:
Jonathan Brown

Email To:
jbrown@gbmcassoc.com;dbraund@gbmcassoc.

Project Description:
Entergy - White Bluff

City/State Collected: Redfield, AR

Please Circle: PT MT (CT) ET

Phone: **501-847-7077**

Client Project #
1145-21-080

Lab Project #
GBMCBAR-ENTERGYWB

Collected by (print):
Danielle Braund

Site/Facility ID #
RECYCLE PONDS

P.O. #

Collected by (signature):
Danielle Braund

Immediately Packed on Ice N ___ Y X

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	B, Ca 250mlHDPE-HNO3	Cl, F, SO4, TDS 250mlHDPE-NoPres								Remarks	Sample # (lab only)
~~FIELD BLANK~~	~~—~~	~~GW~~														~~DIH2O~~	
DUPLICATE RP-10	Grab	GW	8.2	6/16/22	0842	2	X	X								3.80	-39
		~~GW~~															

Chain of Custody Page 5 of 5

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
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 # L1506358

Table #

Acctnum: **GBMCBAR**
Template: **T198822**
Prelogin: **P929295**
PM: 134 - Mark W. Beasley
PB: BF 5/31/22

Shipped Via: **FedEX Ground**

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

Remarks: Final pH in remarks

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR	If preservation required by Login: Date/Time
Danielle Braund	6/16/22				
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 78	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/17/22 Time: 900	Hold: Condition: NCF / (OK)

4506358

Tracking Numbers	Temperature
5719 6189 7339	DRAFT 0,5 to 20,5
5719 6193 8104	DRAFT 5,9 to 25,9
5719 6189 7350	DRAFT 3,9 to 23,9
5719 6189 7340	DRAFT 3,2 to 23,2
~~5719~~	

ANALYTICAL REPORT

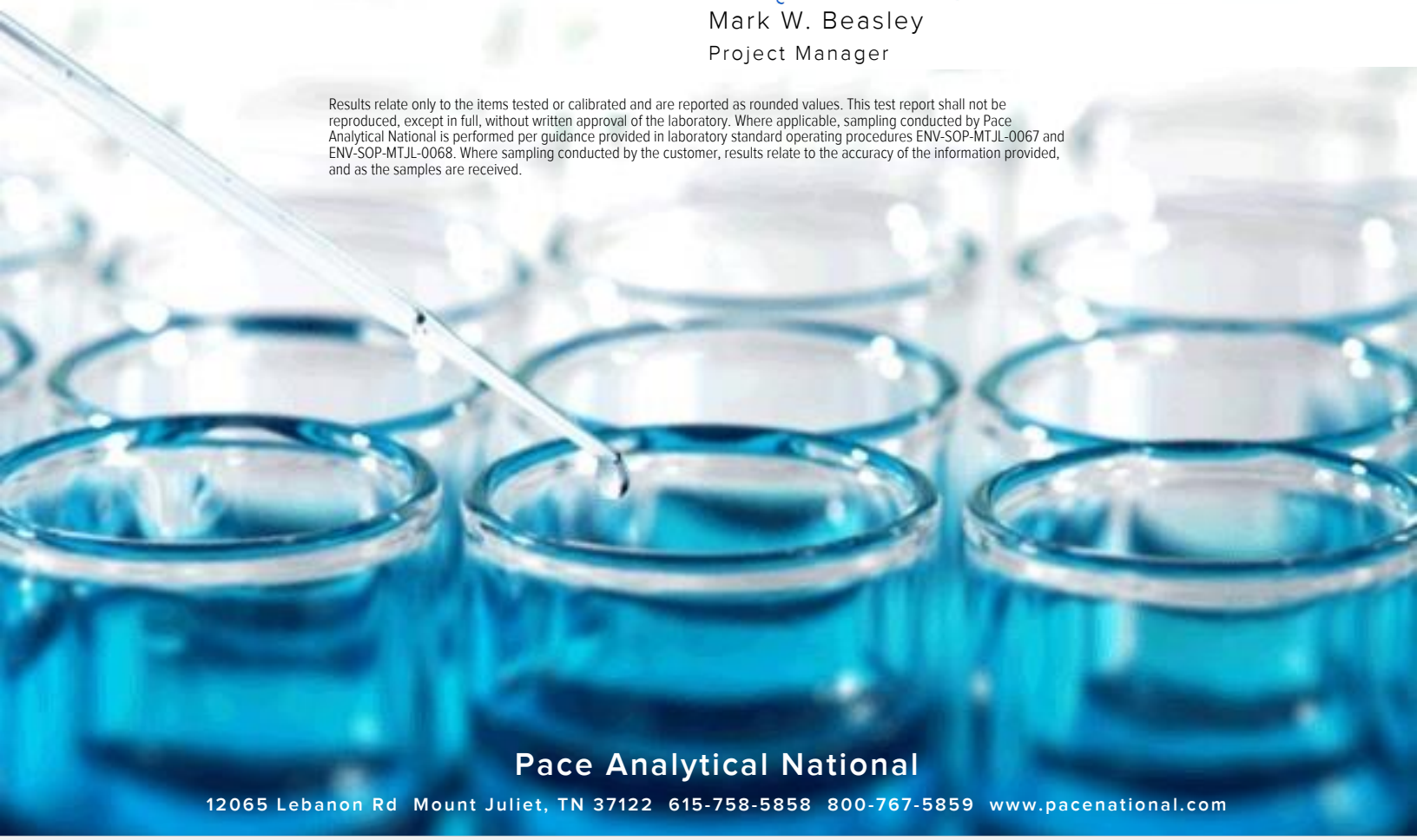
December 28, 2022

GBMc & Associates - Bryant, AR

Sample Delivery Group:	L1566306
Samples Received:	12/10/2022
Project Number:	1145-21-080
Description:	Entergy - White Bluff
Site:	CADL - CCR
Report To:	Johnathon Brown 219 Brown Lane Bryant, AR 72022

Entire Report Reviewed By:

Mark W. Beasley
Project Manager



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

TABLE OF CONTENTS

MW-101S L1566306-01 GW

Collected by: Danielle Braund | Collected date/time: 12/07/22 15:37 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973969	1	12/14/22 10:46	12/14/22 12:54	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974241	1	12/15/22 10:58	12/15/22 10:58	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 06:50	12/15/22 06:50	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974152	1	12/19/22 12:47	12/20/22 01:57	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1974154	1	12/16/22 15:31	12/17/22 14:03	LD	Mt. Juliet, TN

MW-102S L1566306-02 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 14:15 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973329	1	12/13/22 08:49	12/13/22 10:12	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974241	1	12/15/22 11:02	12/15/22 11:02	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 07:28	12/15/22 07:28	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974152	1	12/19/22 12:47	12/20/22 01:59	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1974154	1	12/16/22 15:31	12/17/22 14:07	LD	Mt. Juliet, TN

MW-103S L1566306-03 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 13:45 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973329	1	12/13/22 08:49	12/13/22 10:12	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974241	1	12/15/22 11:07	12/15/22 11:07	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 07:40	12/15/22 07:40	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1977041	1	12/20/22 14:27	12/21/22 09:29	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1977041	1	12/20/22 14:27	12/21/22 17:40	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1974154	1	12/16/22 15:31	12/17/22 14:10	LD	Mt. Juliet, TN

MW-104S L1566306-04 GW

Collected by: Danielle Braund | Collected date/time: 12/08/22 11:35 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1974716	1	12/15/22 01:41	12/15/22 07:51	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974945	1	12/15/22 14:36	12/15/22 14:36	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 08:05	12/15/22 08:05	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974497	1	12/15/22 11:30	12/15/22 17:10	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977083	.9	12/20/22 11:14	12/20/22 15:56	LD	Mt. Juliet, TN

MW-105S L1566306-05 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 09:07 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973329	1	12/13/22 08:49	12/13/22 10:12	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974241	1	12/15/22 11:10	12/15/22 11:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 08:30	12/15/22 08:30	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974497	1	12/15/22 11:30	12/15/22 17:13	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977083	.9	12/20/22 11:14	12/20/22 15:59	LD	Mt. Juliet, TN

MW-106S L1566306-06 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 09:43 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973329	1	12/13/22 08:49	12/13/22 10:12	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974247	1	12/19/22 07:12	12/19/22 07:12	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 08:43	12/15/22 08:43	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	10	12/15/22 08:55	12/15/22 08:55	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974497	1	12/15/22 11:30	12/15/22 17:16	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977083	.9	12/20/22 11:14	12/20/22 16:09	LD	Mt. Juliet, TN

MW-110S L1566306-07 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 13:09 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973349	1	12/13/22 09:11	12/13/22 11:39	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974247	1	12/19/22 07:23	12/19/22 07:23	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 09:08	12/15/22 09:08	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974497	1	12/15/22 11:30	12/15/22 17:19	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977083	.9	12/20/22 11:14	12/20/22 16:12	LD	Mt. Juliet, TN

MW-111S L1566306-08 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 10:13 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973349	1	12/13/22 09:11	12/13/22 11:39	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974247	1	12/19/22 07:25	12/19/22 07:25	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 09:58	12/15/22 09:58	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	10	12/15/22 10:10	12/15/22 10:10	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974497	1	12/15/22 11:30	12/15/22 17:22	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977083	.9	12/20/22 11:14	12/20/22 16:15	LD	Mt. Juliet, TN

MW-101D L1566306-09 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 16:20 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973349	1	12/13/22 09:11	12/13/22 11:39	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974247	1	12/19/22 07:30	12/19/22 07:30	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 10:22	12/15/22 10:22	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974497	1	12/15/22 11:30	12/15/22 17:24	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977083	.9	12/20/22 11:14	12/20/22 16:19	LD	Mt. Juliet, TN

MW-102D L1566306-10 GW

Collected by: Danielle Braund | Collected date/time: 12/07/22 14:35 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973969	1	12/14/22 10:46	12/14/22 12:54	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974247	1	12/19/22 07:35	12/19/22 07:35	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	100	12/15/22 10:47	12/15/22 10:47	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974497	1	12/15/22 11:30	12/15/22 17:32	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977085	1	12/21/22 10:27	12/22/22 00:54	LD	Mt. Juliet, TN

MW-103D L1566306-11 GW

Collected by: Danielle Braund | Collected date/time: 12/08/22 13:37 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1974716	1	12/15/22 01:41	12/15/22 07:51	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974247	1	12/19/22 07:39	12/19/22 07:39	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 11:00	12/15/22 11:00	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974497	1	12/15/22 11:30	12/15/22 17:35	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977085	1	12/21/22 10:27	12/21/22 22:58	LD	Mt. Juliet, TN

MW-104D L1566306-12 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 10:20 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973349	1	12/13/22 09:11	12/13/22 11:39	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974945	1	12/15/22 14:39	12/15/22 14:39	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 11:25	12/15/22 11:25	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974497	1	12/15/22 11:30	12/15/22 17:38	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977085	1	12/21/22 10:27	12/21/22 23:02	LD	Mt. Juliet, TN

MW-105D L1566306-13 GW

Collected by: Danielle Braund | Collected date/time: 12/08/22 09:22 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1974716	1	12/15/22 01:41	12/15/22 07:51	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974945	1	12/15/22 14:46	12/15/22 14:46	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 11:37	12/15/22 11:37	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974497	1	12/15/22 11:30	12/15/22 17:41	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977085	1	12/21/22 10:27	12/21/22 23:05	LD	Mt. Juliet, TN

MW-106D L1566306-14 GW

Collected by: Danielle Braund | Collected date/time: 12/08/22 12:35 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1974716	1	12/15/22 01:41	12/15/22 07:51	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974945	1	12/15/22 14:52	12/15/22 14:52	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 12:40	12/15/22 12:40	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 00:47	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977085	1	12/21/22 10:27	12/21/22 23:15	LD	Mt. Juliet, TN

MW-107D L1566306-15 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 10:49 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973349	1	12/13/22 09:11	12/13/22 11:39	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974945	1	12/15/22 15:11	12/15/22 15:11	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 12:52	12/15/22 12:52	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 00:49	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977085	1	12/21/22 10:27	12/21/22 23:18	LD	Mt. Juliet, TN

MW-108D L1566306-16 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 13:30 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974945	1	12/15/22 15:18	12/15/22 15:18	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974156	1	12/15/22 13:17	12/15/22 13:17	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 00:52	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977085	1	12/21/22 10:27	12/21/22 23:21	LD	Mt. Juliet, TN

MW-109D L1566306-17 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 11:45 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974945	1	12/15/22 15:24	12/15/22 15:24	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 16:11	12/14/22 16:11	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 00:55	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977085	1	12/21/22 10:27	12/21/22 23:25	LD	Mt. Juliet, TN

MW-110D L1566306-18 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 14:30 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974945	1	12/15/22 15:31	12/15/22 15:31	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 16:25	12/14/22 16:25	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 01:03	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977085	1	12/21/22 10:27	12/21/22 23:28	LD	Mt. Juliet, TN

MW-112D L1566306-19 GW

Collected by: Danielle Braund | Collected date/time: 12/07/22 16:40 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973969	1	12/14/22 10:46	12/14/22 12:54	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974945	1	12/15/22 15:38	12/15/22 15:38	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 17:23	12/14/22 17:23	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 01:06	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977085	1	12/21/22 10:27	12/21/22 23:31	LD	Mt. Juliet, TN

MW-113D L1566306-20 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 14:27 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973349	1	12/13/22 09:11	12/13/22 11:39	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974945	1	12/15/22 15:44	12/15/22 15:44	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 17:37	12/14/22 17:37	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	10	12/14/22 18:20	12/14/22 18:20	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 01:08	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1977085	1	12/21/22 10:27	12/21/22 23:35	LD	Mt. Juliet, TN

MW-114D L1566306-21 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 16:40 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 07:31	12/19/22 07:31	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 18:35	12/14/22 18:35	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 01:11	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 16:11	LD	Mt. Juliet, TN

MW-115D L1566306-22 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 12:40 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 07:38	12/19/22 07:38	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 18:49	12/14/22 18:49	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 01:14	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 16:25	LD	Mt. Juliet, TN

MW-118D L1566306-23 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 16:00 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 07:45	12/19/22 07:45	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 19:04	12/14/22 19:04	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 01:17	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 16:28	LD	Mt. Juliet, TN

FIELD BLANK 1 L1566306-24 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 15:30 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973349	1	12/13/22 09:11	12/13/22 11:39	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 07:51	12/19/22 07:51	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 19:32	12/14/22 19:32	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 01:19	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 16:31	LD	Mt. Juliet, TN

FIELD BLANK 2 L1566306-25 GW

Collected by: Danielle Braund | Collected date/time: 12/07/22 14:20 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973969	1	12/14/22 10:46	12/14/22 12:54	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 07:55	12/19/22 07:55	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 19:47	12/14/22 19:47	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 01:22	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 16:34	LD	Mt. Juliet, TN

DUPLICATE 1 107D L1566306-26 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 10:49 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973349	1	12/13/22 09:11	12/13/22 11:39	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 07:59	12/19/22 07:59	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 20:01	12/14/22 20:01	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 01:25	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 16:45	LD	Mt. Juliet, TN

DUPLICATE 2 106S L1566306-27 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 13:09 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973349	1	12/13/22 09:11	12/13/22 11:39	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 08:16	12/19/22 08:16	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 20:30	12/14/22 20:30	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974810	1	12/15/22 11:47	12/16/22 01:28	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 16:48	LD	Mt. Juliet, TN

DUPLICATE 3 101D L1566306-28 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 16:20 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973349	1	12/13/22 09:11	12/13/22 11:39	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 08:19	12/19/22 08:19	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 21:28	12/14/22 21:28	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974941	1	12/15/22 22:11	12/16/22 08:31	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 16:52	LD	Mt. Juliet, TN

RP FIELD BLANK L1566306-29 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 09:00 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973349	1	12/13/22 09:11	12/13/22 11:39	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 08:27	12/19/22 08:27	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 21:57	12/14/22 21:57	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974941	1	12/15/22 22:11	12/16/22 08:42	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 16:55	LD	Mt. Juliet, TN

RP DUPLICATE RP-8 L1566306-30 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 14:24 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 08:31	12/19/22 08:31	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 22:11	12/14/22 22:11	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974684	5	12/16/22 12:40	12/16/22 12:40	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974941	1	12/15/22 22:11	12/16/22 08:45	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 16:58	LD	Mt. Juliet, TN

RP-1 L1566306-31 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 15:55 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 08:36	12/19/22 08:36	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	10	12/14/22 22:25	12/14/22 22:25	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974941	1	12/15/22 22:11	12/16/22 08:48	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 17:01	LD	Mt. Juliet, TN

RP-2 L1566306-32 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 15:29 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 08:41	12/19/22 08:41	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 22:54	12/14/22 22:54	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974941	1	12/15/22 22:11	12/16/22 08:51	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 17:05	LD	Mt. Juliet, TN

RP-3 L1566306-33 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 14:57 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 08:46	12/19/22 08:46	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/14/22 23:09	12/14/22 23:09	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	20	12/14/22 23:33	12/14/22 23:33	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974941	1	12/15/22 22:11	12/16/22 08:59	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 17:08	LD	Mt. Juliet, TN

RP-4 L1566306-34 GW

Collected by: Danielle Braund | Collected date/time: 12/06/22 08:37 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973349	1	12/13/22 09:11	12/13/22 11:39	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 08:51	12/19/22 08:51	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/15/22 00:15	12/15/22 00:15	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974941	1	12/15/22 22:11	12/16/22 09:02	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 17:11	LD	Mt. Juliet, TN

RP-5 L1566306-35 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 13:02 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 08:55	12/19/22 08:55	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/15/22 00:44	12/15/22 00:44	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974684	5	12/16/22 12:53	12/16/22 12:53	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974941	1	12/15/22 22:11	12/16/22 09:05	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 17:14	LD	Mt. Juliet, TN

RP-6 L1566306-36 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 13:36 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 09:09	12/19/22 09:09	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	1	12/15/22 01:27	12/15/22 01:27	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974289	20	12/15/22 01:42	12/15/22 01:42	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1974941	1	12/15/22 22:11	12/16/22 09:08	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 17:24	LD	Mt. Juliet, TN

RP-7 L1566306-37 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 13:59 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 09:14	12/19/22 09:14	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974445	1	12/16/22 08:47	12/16/22 08:47	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974445	5	12/16/22 09:03	12/16/22 09:03	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1975471	1	12/19/22 09:30	12/19/22 20:14	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 17:28	LD	Mt. Juliet, TN

RP-8 L1566306-38 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 14:24 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975415	1	12/19/22 09:19	12/19/22 09:19	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974445	1	12/16/22 09:24	12/16/22 09:24	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974445	5	12/16/22 09:40	12/16/22 09:40	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1975471	1	12/19/22 09:30	12/19/22 20:17	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 17:31	LD	Mt. Juliet, TN

RP-9 L1566306-39 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 16:33 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1975416	1	12/19/22 10:29	12/19/22 10:29	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974451	1	12/15/22 13:55	12/15/22 13:55	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1975471	1	12/19/22 09:30	12/19/22 19:35	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 17:34	LD	Mt. Juliet, TN

RP-10 L1566306-40 GW

Collected by: Danielle Braund | Collected date/time: 12/05/22 17:02 | Received date/time: 12/10/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1973182	1	12/12/22 20:46	12/13/22 01:15	AS	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG1974241	1	12/15/22 11:24	12/15/22 11:24	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1974451	1	12/15/22 18:14	12/15/22 18:14	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1975825	5	12/17/22 00:34	12/17/22 00:34	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1975471	1	12/19/22 09:30	12/19/22 20:20	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1975620	1	12/20/22 01:23	12/20/22 17:37	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.

Mark W. Beasley
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	217	J4	10.0	1	12/14/2022 12:54	WG1973969

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	56.1		20.0	1	12/15/2022 10:58	WG1974241

Sample Narrative:

L1566306-01 WG1974241: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	7.65		1.00	1	12/15/2022 06:50	WG1974156
Fluoride	ND		0.150	1	12/15/2022 06:50	WG1974156
Sulfate	51.3		5.00	1	12/15/2022 06:50	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	12/20/2022 01:57	WG1974152
Lithium	0.0393		0.0150	1	12/20/2022 01:57	WG1974152

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Barium	0.0752		0.00200	1	12/17/2022 14:03	WG1974154
Calcium	15.9		1.00	1	12/17/2022 14:03	WG1974154
Magnesium	4.36		1.00	1	12/17/2022 14:03	WG1974154
Sodium	27.0		2.00	1	12/17/2022 14:03	WG1974154
Strontium	0.353		0.0100	1	12/17/2022 14:03	WG1974154

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3860		200	1	12/13/2022 10:12	WG1973329

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	60.4		20.0	1	12/15/2022 11:02	WG1974241

Sample Narrative:

L1566306-02 WG1974241: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	8.08		1.00	1	12/15/2022 07:28	WG1974156
Fluoride	ND		0.150	1	12/15/2022 07:28	WG1974156
Sulfate	27.6		5.00	1	12/15/2022 07:28	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	12/20/2022 01:59	WG1974152
Lithium	0.0297		0.0150	1	12/20/2022 01:59	WG1974152

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Barium	0.0762		0.00200	1	12/17/2022 14:07	WG1974154
Calcium	16.2		1.00	1	12/17/2022 14:07	WG1974154
Magnesium	4.35		1.00	1	12/17/2022 14:07	WG1974154
Sodium	26.7		2.00	1	12/17/2022 14:07	WG1974154
Strontium	0.357		0.0100	1	12/17/2022 14:07	WG1974154

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	980		50.0	1	12/13/2022 10:12	WG1973329

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/15/2022 11:07	WG1974241

Sample Narrative:

L1566306-03 WG1974241: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	5.14		1.00	1	12/15/2022 07:40	WG1974156
Fluoride	ND		0.150	1	12/15/2022 07:40	WG1974156
Sulfate	79.4		5.00	1	12/15/2022 07:40	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.282		0.200	1	12/21/2022 17:40	WG1977041
Lithium	ND		0.0150	1	12/21/2022 09:29	WG1977041

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0884		0.00200	1	12/17/2022 14:10	WG1974154
Calcium	5.41		1.00	1	12/17/2022 14:10	WG1974154
Magnesium	1.51		1.00	1	12/17/2022 14:10	WG1974154
Sodium	37.1		2.00	1	12/17/2022 14:10	WG1974154
Strontium	0.121		0.0100	1	12/17/2022 14:10	WG1974154

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	248		10.0	1	12/15/2022 07:51	WG1974716

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	25.2		20.0	1	12/15/2022 14:36	WG1974945

Sample Narrative:

L1566306-04 WG1974945: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	4.34		1.00	1	12/15/2022 08:05	WG1974156
Fluoride	ND		0.150	1	12/15/2022 08:05	WG1974156
Sulfate	79.6		5.00	1	12/15/2022 08:05	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.837		0.200	1	12/15/2022 17:10	WG1974497
Lithium	0.0364		0.0150	1	12/15/2022 17:10	WG1974497

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0379		0.00180	.9	12/20/2022 15:56	WG1977083
Calcium	15.6		0.900	.9	12/20/2022 15:56	WG1977083
Magnesium	3.49		0.900	.9	12/20/2022 15:56	WG1977083
Sodium	22.7		1.80	.9	12/20/2022 15:56	WG1977083
Strontium	0.300		0.00900	.9	12/20/2022 15:56	WG1977083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	97.0		10.0	1	12/13/2022 10:12	WG1973329

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	64.3		20.0	1	12/15/2022 11:10	WG1974241

Sample Narrative:

L1566306-05 WG1974241: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5.25		1.00	1	12/15/2022 08:30	WG1974156
Fluoride	ND		0.150	1	12/15/2022 08:30	WG1974156
Sulfate	32.0		5.00	1	12/15/2022 08:30	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	12/15/2022 17:13	WG1974497
Lithium	0.0409		0.0150	1	12/15/2022 17:13	WG1974497

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Barium	0.0708		0.00180	.9	12/20/2022 15:59	WG1977083
Calcium	15.3		0.900	.9	12/20/2022 15:59	WG1977083
Magnesium	3.34		0.900	.9	12/20/2022 15:59	WG1977083
Sodium	18.0		1.80	.9	12/20/2022 15:59	WG1977083
Strontium	0.328		0.00900	.9	12/20/2022 15:59	WG1977083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	979		10.0	1	12/13/2022 10:12	WG1973329

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/19/2022 07:12	WG1974247

Sample Narrative:

L1566306-06 WG1974247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	13.1		1.00	1	12/15/2022 08:43	WG1974156
Fluoride	0.803		0.150	1	12/15/2022 08:43	WG1974156
Sulfate	643		50.0	10	12/15/2022 08:55	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	6.39		0.200	1	12/15/2022 17:16	WG1974497
Lithium	0.0241		0.0150	1	12/15/2022 17:16	WG1974497

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0179		0.00180	.9	12/20/2022 16:09	WG1977083
Calcium	31.6		0.900	.9	12/20/2022 16:09	WG1977083
Magnesium	21.1		0.900	.9	12/20/2022 16:09	WG1977083
Sodium	202		1.80	.9	12/20/2022 16:09	WG1977083
Strontium	1.03		0.00900	.9	12/20/2022 16:09	WG1977083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	375	J3	10.0	1	12/13/2022 11:39	WG1973349

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	12/19/2022 07:23	WG1974247

Sample Narrative:

L1566306-07 WG1974247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	6.57		1.00	1	12/15/2022 09:08	WG1974156
Fluoride	0.167		0.150	1	12/15/2022 09:08	WG1974156
Sulfate	194		5.00	1	12/15/2022 09:08	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	2.03		0.200	1	12/15/2022 17:19	WG1974497
Lithium	0.0318		0.0150	1	12/15/2022 17:19	WG1974497

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Barium	0.0295		0.00180	.9	12/20/2022 16:12	WG1977083
Calcium	5.93		0.900	.9	12/20/2022 16:12	WG1977083
Magnesium	2.87		0.900	.9	12/20/2022 16:12	WG1977083
Sodium	71.3		1.80	.9	12/20/2022 16:12	WG1977083
Strontium	0.182		0.00900	.9	12/20/2022 16:12	WG1977083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1270		20.0	1	12/13/2022 11:39	WG1973349

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	12/19/2022 07:25	WG1974247

Sample Narrative:

L1566306-08 WG1974247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	11.3		1.00	1	12/15/2022 09:58	WG1974156
Fluoride	1.20		0.150	1	12/15/2022 09:58	WG1974156
Sulfate	879		50.0	10	12/15/2022 10:10	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	6.26		0.200	1	12/15/2022 17:22	WG1974497
Lithium	0.0530		0.0150	1	12/15/2022 17:22	WG1974497

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Barium	0.0157		0.00180	.9	12/20/2022 16:15	WG1977083
Calcium	112		0.900	.9	12/20/2022 16:15	WG1977083
Magnesium	37.3		0.900	.9	12/20/2022 16:15	WG1977083
Sodium	166		1.80	.9	12/20/2022 16:15	WG1977083
Strontium	3.03		0.00900	.9	12/20/2022 16:15	WG1977083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	397		10.0	1	12/13/2022 11:39	WG1973349

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	231		20.0	1	12/19/2022 07:30	WG1974247

Sample Narrative:

L1566306-09 WG1974247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	6.30		1.00	1	12/15/2022 10:22	WG1974156
Fluoride	ND		0.150	1	12/15/2022 10:22	WG1974156
Sulfate	89.9		5.00	1	12/15/2022 10:22	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.206		0.200	1	12/15/2022 17:24	WG1974497
Lithium	0.0451		0.0150	1	12/15/2022 17:24	WG1974497

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Barium	0.0788		0.00180	.9	12/20/2022 16:19	WG1977083
Calcium	54.3		0.900	.9	12/20/2022 16:19	WG1977083
Magnesium	12.5		0.900	.9	12/20/2022 16:19	WG1977083
Sodium	49.6		1.80	.9	12/20/2022 16:19	WG1977083
Strontium	1.23		0.00900	.9	12/20/2022 16:19	WG1977083

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	428	J4	10.0	1	12/14/2022 12:54	WG1973969

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	342		20.0	1	12/19/2022 07:35	WG1974247

Sample Narrative:

L1566306-10 WG1974247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	ND		100	100	12/15/2022 10:47	WG1974156
Fluoride	ND		15.0	100	12/15/2022 10:47	WG1974156
Sulfate	ND		500	100	12/15/2022 10:47	WG1974156

Sample Narrative:

L1566306-10 WG1974156: dilution due to matrix

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.260		0.200	1	12/15/2022 17:32	WG1974497
Lithium	0.0515		0.0150	1	12/15/2022 17:32	WG1974497

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Barium	0.605		0.00200	1	12/22/2022 00:54	WG1977085
Calcium	127		1.00	1	12/22/2022 00:54	WG1977085
Magnesium	33.1		1.00	1	12/22/2022 00:54	WG1977085
Sodium	51.6		2.00	1	12/22/2022 00:54	WG1977085
Strontium	3.19		0.0100	1	12/22/2022 00:54	WG1977085

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	398		10.0	1	12/15/2022 07:51	WG1974716

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	283		20.0	1	12/19/2022 07:39	WG1974247

Sample Narrative:

L1566306-11 WG1974247: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	7.89		1.00	1	12/15/2022 11:00	WG1974156
Fluoride	0.194		0.150	1	12/15/2022 11:00	WG1974156
Sulfate	71.6		5.00	1	12/15/2022 11:00	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.276		0.200	1	12/15/2022 17:35	WG1974497
Lithium	0.0440		0.0150	1	12/15/2022 17:35	WG1974497

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0870		0.00200	1	12/21/2022 22:58	WG1977085
Calcium	52.5		1.00	1	12/21/2022 22:58	WG1977085
Magnesium	10.9		1.00	1	12/21/2022 22:58	WG1977085
Sodium	82.8		2.00	1	12/21/2022 22:58	WG1977085
Strontium	1.33		0.0100	1	12/21/2022 22:58	WG1977085

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	307		10.0	1	12/13/2022 11:39	WG1973349

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	261		20.0	1	12/15/2022 14:39	WG1974945

Sample Narrative:

L1566306-12 WG1974945: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	9.99		1.00	1	12/15/2022 11:25	WG1974156
Fluoride	ND		0.150	1	12/15/2022 11:25	WG1974156
Sulfate	19.7		5.00	1	12/15/2022 11:25	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.242		0.200	1	12/15/2022 17:38	WG1974497
Lithium	0.0359		0.0150	1	12/15/2022 17:38	WG1974497

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0732		0.00200	1	12/21/2022 23:02	WG1977085
Calcium	57.1		1.00	1	12/21/2022 23:02	WG1977085
Magnesium	12.8		1.00	1	12/21/2022 23:02	WG1977085
Sodium	43.2		2.00	1	12/21/2022 23:02	WG1977085
Strontium	1.35		0.0100	1	12/21/2022 23:02	WG1977085

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	353		10.0	1	12/15/2022 07:51	WG1974716

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	268		20.0	1	12/15/2022 14:46	WG1974945

Sample Narrative:

L1566306-13 WG1974945: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	8.99		1.00	1	12/15/2022 11:37	WG1974156
Fluoride	ND		0.150	1	12/15/2022 11:37	WG1974156
Sulfate	29.5		5.00	1	12/15/2022 11:37	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.280		0.200	1	12/15/2022 17:41	WG1974497
Lithium	0.0349		0.0150	1	12/15/2022 17:41	WG1974497

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0933		0.00200	1	12/21/2022 23:05	WG1977085
Calcium	57.2		1.00	1	12/21/2022 23:05	WG1977085
Magnesium	12.2		1.00	1	12/21/2022 23:05	WG1977085
Sodium	48.8		2.00	1	12/21/2022 23:05	WG1977085
Strontium	1.42		0.0100	1	12/21/2022 23:05	WG1977085

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	329		10.0	1	12/15/2022 07:51	WG1974716

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	303		20.0	1	12/15/2022 14:52	WG1974945

Sample Narrative:

L1566306-14 WG1974945: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	5.92		1.00	1	12/15/2022 12:40	WG1974156
Fluoride	ND		0.150	1	12/15/2022 12:40	WG1974156
Sulfate	12.5		5.00	1	12/15/2022 12:40	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.304		0.200	1	12/16/2022 00:47	WG1974810
Lithium	0.0352		0.0150	1	12/16/2022 00:47	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.107		0.00200	1	12/21/2022 23:15	WG1977085
Calcium	56.7		1.00	1	12/21/2022 23:15	WG1977085
Magnesium	11.6		1.00	1	12/21/2022 23:15	WG1977085
Sodium	56.6		2.00	1	12/21/2022 23:15	WG1977085
Strontium	1.47		0.0100	1	12/21/2022 23:15	WG1977085

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	509		10.0	1	12/13/2022 11:39	WG1973349

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	302		20.0	1	12/15/2022 15:11	WG1974945

Sample Narrative:

L1566306-15 WG1974945: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	21.3		1.00	1	12/15/2022 12:52	WG1974156
Fluoride	ND		0.150	1	12/15/2022 12:52	WG1974156
Sulfate	129		5.00	1	12/15/2022 12:52	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.315		0.200	1	12/16/2022 00:49	WG1974810
Lithium	0.0436		0.0150	1	12/16/2022 00:49	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.124		0.00200	1	12/21/2022 23:18	WG1977085
Calcium	82.1		1.00	1	12/21/2022 23:18	WG1977085
Magnesium	17.4		1.00	1	12/21/2022 23:18	WG1977085
Sodium	76.2		2.00	1	12/21/2022 23:18	WG1977085
Strontium	2.14		0.0100	1	12/21/2022 23:18	WG1977085

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	523		10.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	377		20.0	1	12/15/2022 15:18	WG1974945

Sample Narrative:

L1566306-16 WG1974945: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	13.8		1.00	1	12/15/2022 13:17	WG1974156
Fluoride	ND		0.150	1	12/15/2022 13:17	WG1974156
Sulfate	52.5		5.00	1	12/15/2022 13:17	WG1974156

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.332		0.200	1	12/16/2022 00:52	WG1974810
Lithium	0.0419		0.0150	1	12/16/2022 00:52	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Barium	0.0818		0.00200	1	12/21/2022 23:21	WG1977085
Calcium	70.5		1.00	1	12/21/2022 23:21	WG1977085
Magnesium	15.3		1.00	1	12/21/2022 23:21	WG1977085
Sodium	95.2		2.00	1	12/21/2022 23:21	WG1977085
Strontium	1.77		0.0100	1	12/21/2022 23:21	WG1977085

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	371		10.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	262		20.0	1	12/15/2022 15:24	WG1974945

Sample Narrative:

L1566306-17 WG1974945: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	6.45		1.00	1	12/14/2022 16:11	WG1974289
Fluoride	ND		0.150	1	12/14/2022 16:11	WG1974289
Sulfate	49.6		5.00	1	12/14/2022 16:11	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.308		0.200	1	12/16/2022 00:55	WG1974810
Lithium	0.0375		0.0150	1	12/16/2022 00:55	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0631		0.00200	1	12/21/2022 23:25	WG1977085
Calcium	50.0		1.00	1	12/21/2022 23:25	WG1977085
Magnesium	10.7		1.00	1	12/21/2022 23:25	WG1977085
Sodium	67.8		2.00	1	12/21/2022 23:25	WG1977085
Strontium	1.22		0.0100	1	12/21/2022 23:25	WG1977085

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	354		10.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	258		20.0	1	12/15/2022 15:31	WG1974945

Sample Narrative:

L1566306-18 WG1974945: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	6.34		1.00	1	12/14/2022 16:25	WG1974289
Fluoride	ND		0.150	1	12/14/2022 16:25	WG1974289
Sulfate	38.9		5.00	1	12/14/2022 16:25	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.306		0.200	1	12/16/2022 01:03	WG1974810
Lithium	0.0335		0.0150	1	12/16/2022 01:03	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0759		0.00200	1	12/21/2022 23:28	WG1977085
Calcium	47.7		1.00	1	12/21/2022 23:28	WG1977085
Magnesium	10.2		1.00	1	12/21/2022 23:28	WG1977085
Sodium	68.1		2.00	1	12/21/2022 23:28	WG1977085
Strontium	1.22		0.0100	1	12/21/2022 23:28	WG1977085

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	302	J4	10.0	1	12/14/2022 12:54	WG1973969

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	250		20.0	1	12/15/2022 15:38	WG1974945

Sample Narrative:

L1566306-19 WG1974945: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5.80		1.00	1	12/14/2022 17:23	WG1974289
Fluoride	ND		0.150	1	12/14/2022 17:23	WG1974289
Sulfate	ND		5.00	1	12/14/2022 17:23	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	0.278		0.200	1	12/16/2022 01:06	WG1974810
Lithium	0.0324		0.0150	1	12/16/2022 01:06	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Barium	0.0858		0.00200	1	12/21/2022 23:31	WG1977085
Calcium	39.3		1.00	1	12/21/2022 23:31	WG1977085
Magnesium	8.85		1.00	1	12/21/2022 23:31	WG1977085
Sodium	55.1		2.00	1	12/21/2022 23:31	WG1977085
Strontium	0.944		0.0100	1	12/21/2022 23:31	WG1977085

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1190		20.0	1	12/13/2022 11:39	WG1973349

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	278		20.0	1	12/15/2022 15:44	WG1974945

Sample Narrative:

L1566306-20 WG1974945: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	14.1		1.00	1	12/14/2022 17:37	WG1974289
Fluoride	ND		0.150	1	12/14/2022 17:37	WG1974289
Sulfate	528		50.0	10	12/14/2022 18:20	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.479		0.200	1	12/16/2022 01:08	WG1974810
Lithium	0.173		0.0150	1	12/16/2022 01:08	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0241		0.00200	1	12/21/2022 23:35	WG1977085
Calcium	200		1.00	1	12/21/2022 23:35	WG1977085
Magnesium	53.2		1.00	1	12/21/2022 23:35	WG1977085
Sodium	81.8		2.00	1	12/21/2022 23:35	WG1977085
Strontium	4.77		0.0100	1	12/21/2022 23:35	WG1977085

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	331		10.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	247		20.0	1	12/19/2022 07:31	WG1975415

Sample Narrative:

L1566306-21 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	7.46		1.00	1	12/14/2022 18:35	WG1974289
Fluoride	ND		0.150	1	12/14/2022 18:35	WG1974289
Sulfate	25.9		5.00	1	12/14/2022 18:35	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.277		0.200	1	12/16/2022 01:11	WG1974810
Lithium	0.0335		0.0150	1	12/16/2022 01:11	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.127		0.00200	1	12/20/2022 16:11	WG1975620
Calcium	52.1		1.00	1	12/20/2022 16:11	WG1975620
Magnesium	11.4		1.00	1	12/20/2022 16:11	WG1975620
Sodium	43.7		2.00	1	12/20/2022 16:11	WG1975620
Strontium	1.27	V	0.0100	1	12/20/2022 16:11	WG1975620

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	351		10.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	299		20.0	1	12/19/2022 07:38	WG1975415

Sample Narrative:

L1566306-22 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	4.44		1.00	1	12/14/2022 18:49	WG1974289
Fluoride	ND		0.150	1	12/14/2022 18:49	WG1974289
Sulfate	5.25		5.00	1	12/14/2022 18:49	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.327		0.200	1	12/16/2022 01:14	WG1974810
Lithium	0.0405		0.0150	1	12/16/2022 01:14	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0838		0.00200	1	12/20/2022 16:25	WG1975620
Calcium	43.9		1.00	1	12/20/2022 16:25	WG1975620
Magnesium	9.94		1.00	1	12/20/2022 16:25	WG1975620
Sodium	67.8		2.00	1	12/20/2022 16:25	WG1975620
Strontium	1.06		0.0100	1	12/20/2022 16:25	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	557		10.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	285		20.0	1	12/19/2022 07:45	WG1975415

Sample Narrative:

L1566306-23 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	8.27		1.00	1	12/14/2022 19:04	WG1974289
Fluoride	ND		0.150	1	12/14/2022 19:04	WG1974289
Sulfate	162		5.00	1	12/14/2022 19:04	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.277		0.200	1	12/16/2022 01:17	WG1974810
Lithium	0.101		0.0150	1	12/16/2022 01:17	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0296		0.00200	1	12/20/2022 16:28	WG1975620
Calcium	88.6		1.00	1	12/20/2022 16:28	WG1975620
Magnesium	22.6		1.00	1	12/20/2022 16:28	WG1975620
Sodium	57.5		2.00	1	12/20/2022 16:28	WG1975620
Strontium	2.09		0.0100	1	12/20/2022 16:28	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	ND		10.0	1	12/13/2022 11:39	WG1973349

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/19/2022 07:51	WG1975415

Sample Narrative:

L1566306-24 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	ND		1.00	1	12/14/2022 19:32	WG1974289
Fluoride	ND		0.150	1	12/14/2022 19:32	WG1974289
Sulfate	ND		5.00	1	12/14/2022 19:32	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	12/16/2022 01:19	WG1974810
Lithium	ND		0.0150	1	12/16/2022 01:19	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	ND		0.00200	1	12/20/2022 16:31	WG1975620
Calcium	ND		1.00	1	12/20/2022 16:31	WG1975620
Magnesium	ND		1.00	1	12/20/2022 16:31	WG1975620
Sodium	ND		2.00	1	12/20/2022 16:31	WG1975620
Strontium	ND		0.0100	1	12/20/2022 16:31	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND	J4	10.0	1	12/14/2022 12:54	WG1973969

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	12/19/2022 07:55	WG1975415

Sample Narrative:

L1566306-25 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	ND		1.00	1	12/14/2022 19:47	WG1974289
Fluoride	ND		0.150	1	12/14/2022 19:47	WG1974289
Sulfate	ND		5.00	1	12/14/2022 19:47	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	12/16/2022 01:22	WG1974810
Lithium	ND		0.0150	1	12/16/2022 01:22	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Barium	ND		0.00200	1	12/20/2022 16:34	WG1975620
Calcium	ND		1.00	1	12/20/2022 16:34	WG1975620
Magnesium	ND		1.00	1	12/20/2022 16:34	WG1975620
Sodium	ND		2.00	1	12/20/2022 16:34	WG1975620
Strontium	ND		0.0100	1	12/20/2022 16:34	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	529		10.0	1	12/13/2022 11:39	WG1973349

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	304		20.0	1	12/19/2022 07:59	WG1975415

Sample Narrative:

L1566306-26 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	20.1		1.00	1	12/14/2022 20:01	WG1974289
Fluoride	ND		0.150	1	12/14/2022 20:01	WG1974289
Sulfate	130		5.00	1	12/14/2022 20:01	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.313		0.200	1	12/16/2022 01:25	WG1974810
Lithium	0.0446		0.0150	1	12/16/2022 01:25	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.123		0.00200	1	12/20/2022 16:45	WG1975620
Calcium	82.9		1.00	1	12/20/2022 16:45	WG1975620
Magnesium	17.6		1.00	1	12/20/2022 16:45	WG1975620
Sodium	75.3		2.00	1	12/20/2022 16:45	WG1975620
Strontium	2.12		0.0100	1	12/20/2022 16:45	WG1975620

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	398		10.0	1	12/13/2022 11:39	WG1973349

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/19/2022 08:16	WG1975415

Sample Narrative:

L1566306-27 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	5.96		1.00	1	12/14/2022 20:30	WG1974289
Fluoride	ND		0.150	1	12/14/2022 20:30	WG1974289
Sulfate	196		5.00	1	12/14/2022 20:30	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	1.97		0.200	1	12/16/2022 01:28	WG1974810
Lithium	0.0320		0.0150	1	12/16/2022 01:28	WG1974810

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0317		0.00200	1	12/20/2022 16:48	WG1975620
Calcium	6.56		1.00	1	12/20/2022 16:48	WG1975620
Magnesium	3.13		1.00	1	12/20/2022 16:48	WG1975620
Sodium	76.6		2.00	1	12/20/2022 16:48	WG1975620
Strontium	0.203		0.0100	1	12/20/2022 16:48	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	376		10.0	1	12/13/2022 11:39	WG1973349

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	231		20.0	1	12/19/2022 08:19	WG1975415

Sample Narrative:

L1566306-28 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	5.79		1.00	1	12/14/2022 21:28	WG1974289
Fluoride	ND		0.150	1	12/14/2022 21:28	WG1974289
Sulfate	88.9		5.00	1	12/14/2022 21:28	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	12/16/2022 08:31	WG1974941
Lithium	0.0463		0.0150	1	12/16/2022 08:31	WG1974941

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0871		0.00200	1	12/20/2022 16:52	WG1975620
Calcium	60.1		1.00	1	12/20/2022 16:52	WG1975620
Magnesium	13.5		1.00	1	12/20/2022 16:52	WG1975620
Sodium	51.8		2.00	1	12/20/2022 16:52	WG1975620
Strontium	1.41		0.0100	1	12/20/2022 16:52	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	12/13/2022 11:39	WG1973349

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	12/19/2022 08:27	WG1975415

Sample Narrative:

L1566306-29 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	ND		1.00	1	12/14/2022 21:57	WG1974289
Fluoride	ND		0.150	1	12/14/2022 21:57	WG1974289
Sulfate	ND		5.00	1	12/14/2022 21:57	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	12/16/2022 08:42	WG1974941
Lithium	ND		0.0150	1	12/16/2022 08:42	WG1974941

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Barium	ND		0.00200	1	12/20/2022 16:55	WG1975620
Calcium	ND		1.00	1	12/20/2022 16:55	WG1975620
Magnesium	ND		1.00	1	12/20/2022 16:55	WG1975620
Sodium	ND		2.00	1	12/20/2022 16:55	WG1975620
Strontium	ND		0.0100	1	12/20/2022 16:55	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	610		10.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/19/2022 08:31	WG1975415

Sample Narrative:

L1566306-30 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	37.5		1.00	1	12/14/2022 22:11	WG1974289
Fluoride	0.350		0.150	1	12/14/2022 22:11	WG1974289
Sulfate	297		25.0	5	12/16/2022 12:40	WG1974684

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.293		0.200	1	12/16/2022 08:45	WG1974941
Lithium	0.169		0.0150	1	12/16/2022 08:45	WG1974941

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0321		0.00200	1	12/20/2022 16:58	WG1975620
Calcium	51.5		1.00	1	12/20/2022 16:58	WG1975620
Magnesium	17.9		1.00	1	12/20/2022 16:58	WG1975620
Sodium	50.2		2.00	1	12/20/2022 16:58	WG1975620
Strontium	1.34		0.0100	1	12/20/2022 16:58	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4620		50.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/19/2022 08:36	WG1975415

Sample Narrative:

L1566306-31 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	541		10.0	10	12/14/2022 22:25	WG1974289
Fluoride	1.56		1.50	10	12/14/2022 22:25	WG1974289
Sulfate	1920		50.0	10	12/14/2022 22:25	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	12/16/2022 08:48	WG1974941
Lithium	0.399		0.0150	1	12/16/2022 08:48	WG1974941

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0182		0.00200	1	12/20/2022 17:01	WG1975620
Calcium	342		1.00	1	12/20/2022 17:01	WG1975620
Magnesium	193		1.00	1	12/20/2022 17:01	WG1975620
Sodium	472		2.00	1	12/20/2022 17:01	WG1975620
Strontium	6.92		0.0100	1	12/20/2022 17:01	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	291		10.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/19/2022 08:41	WG1975415

Sample Narrative:

L1566306-32 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	18.0		1.00	1	12/14/2022 22:54	WG1974289
Fluoride	ND		0.150	1	12/14/2022 22:54	WG1974289
Sulfate	98.8		5.00	1	12/14/2022 22:54	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	12/16/2022 08:51	WG1974941
Lithium	0.0836		0.0150	1	12/16/2022 08:51	WG1974941

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0296		0.00200	1	12/20/2022 17:05	WG1975620
Calcium	13.4		1.00	1	12/20/2022 17:05	WG1975620
Magnesium	5.36		1.00	1	12/20/2022 17:05	WG1975620
Sodium	22.6		2.00	1	12/20/2022 17:05	WG1975620
Strontium	0.335		0.0100	1	12/20/2022 17:05	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1960		50.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/19/2022 08:46	WG1975415

Sample Narrative:

L1566306-33 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	179		1.00	1	12/14/2022 23:09	WG1974289
Fluoride	0.763		0.150	1	12/14/2022 23:09	WG1974289
Sulfate	1310		100	20	12/14/2022 23:33	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	12/16/2022 08:59	WG1974941
Lithium	0.393		0.0150	1	12/16/2022 08:59	WG1974941

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0125		0.00200	1	12/20/2022 17:08	WG1975620
Calcium	197		1.00	1	12/20/2022 17:08	WG1975620
Magnesium	94.3		1.00	1	12/20/2022 17:08	WG1975620
Sodium	196		2.00	1	12/20/2022 17:08	WG1975620
Strontium	4.27		0.0100	1	12/20/2022 17:08	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	566		10.0	1	12/13/2022 11:39	WG1973349

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	96.2		20.0	1	12/19/2022 08:51	WG1975415

Sample Narrative:

L1566306-34 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	46.0		1.00	1	12/15/2022 00:15	WG1974289
Fluoride	0.349		0.150	1	12/15/2022 00:15	WG1974289
Sulfate	182		5.00	1	12/15/2022 00:15	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.236		0.200	1	12/16/2022 09:02	WG1974941
Lithium	0.0237		0.0150	1	12/16/2022 09:02	WG1974941

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0746		0.00200	1	12/20/2022 17:11	WG1975620
Calcium	72.3		1.00	1	12/20/2022 17:11	WG1975620
Magnesium	18.5		1.00	1	12/20/2022 17:11	WG1975620
Sodium	67.1		2.00	1	12/20/2022 17:11	WG1975620
Strontium	0.879		0.0100	1	12/20/2022 17:11	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	552		10.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/19/2022 08:55	WG1975415

Sample Narrative:

L1566306-35 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	42.1		1.00	1	12/15/2022 00:44	WG1974289
Fluoride	0.333		0.150	1	12/15/2022 00:44	WG1974289
Sulfate	225		25.0	5	12/16/2022 12:53	WG1974684

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	12/16/2022 09:05	WG1974941
Lithium	0.155		0.0150	1	12/16/2022 09:05	WG1974941

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0191		0.00200	1	12/20/2022 17:14	WG1975620
Calcium	39.7		1.00	1	12/20/2022 17:14	WG1975620
Magnesium	19.7		1.00	1	12/20/2022 17:14	WG1975620
Sodium	37.0		2.00	1	12/20/2022 17:14	WG1975620
Strontium	0.694		0.0100	1	12/20/2022 17:14	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2120		25.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/19/2022 09:09	WG1975415

Sample Narrative:

L1566306-36 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	35.0		1.00	1	12/15/2022 01:27	WG1974289
Fluoride	1.08		0.150	1	12/15/2022 01:27	WG1974289
Sulfate	1450		100	20	12/15/2022 01:42	WG1974289

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.582		0.200	1	12/16/2022 09:08	WG1974941
Lithium	0.863		0.0150	1	12/16/2022 09:08	WG1974941

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0246		0.00200	1	12/20/2022 17:24	WG1975620
Calcium	262		1.00	1	12/20/2022 17:24	WG1975620
Magnesium	101		1.00	1	12/20/2022 17:24	WG1975620
Sodium	100		2.00	1	12/20/2022 17:24	WG1975620
Strontium	5.64		0.0100	1	12/20/2022 17:24	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	456		10.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/19/2022 09:14	WG1975415

Sample Narrative:

L1566306-37 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	6.63		1.00	1	12/16/2022 08:47	WG1974445
Fluoride	0.445		0.150	1	12/16/2022 08:47	WG1974445
Sulfate	208		25.0	5	12/16/2022 09:03	WG1974445

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	12/19/2022 20:14	WG1975471
Lithium	0.265		0.0150	1	12/19/2022 20:14	WG1975471

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0252		0.00200	1	12/20/2022 17:28	WG1975620
Calcium	33.0		1.00	1	12/20/2022 17:28	WG1975620
Magnesium	12.7		1.00	1	12/20/2022 17:28	WG1975620
Sodium	22.1		2.00	1	12/20/2022 17:28	WG1975620
Strontium	0.756		0.0100	1	12/20/2022 17:28	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	617		10.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/19/2022 09:19	WG1975415

Sample Narrative:

L1566306-38 WG1975415: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	38.4		1.00	1	12/16/2022 09:24	WG1974445
Fluoride	0.345		0.150	1	12/16/2022 09:24	WG1974445
Sulfate	311		25.0	5	12/16/2022 09:40	WG1974445

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.324		0.200	1	12/19/2022 20:17	WG1975471
Lithium	0.171		0.0150	1	12/19/2022 20:17	WG1975471

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0328		0.00200	1	12/20/2022 17:31	WG1975620
Calcium	52.3		1.00	1	12/20/2022 17:31	WG1975620
Magnesium	18.4		1.00	1	12/20/2022 17:31	WG1975620
Sodium	51.9		2.00	1	12/20/2022 17:31	WG1975620
Strontium	1.38		0.0100	1	12/20/2022 17:31	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	178		10.0	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	40.2		20.0	1	12/19/2022 10:29	WG1975416

Sample Narrative:

L1566306-39 WG1975416: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	3.94		1.00	1	12/15/2022 13:55	WG1974451
Fluoride	ND		0.150	1	12/15/2022 13:55	WG1974451
Sulfate	20.9		5.00	1	12/15/2022 13:55	WG1974451

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	ND		0.200	1	12/19/2022 19:35	WG1975471
Lithium	ND		0.0150	1	12/19/2022 19:35	WG1975471

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.130		0.00200	1	12/20/2022 17:34	WG1975620
Calcium	19.1		1.00	1	12/20/2022 17:34	WG1975620
Magnesium	3.46		1.00	1	12/20/2022 17:34	WG1975620
Sodium	15.9		2.00	1	12/20/2022 17:34	WG1975620
Strontium	0.151		0.0100	1	12/20/2022 17:34	WG1975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	843		13.3	1	12/13/2022 01:15	WG1973182

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	ND		20.0	1	12/15/2022 11:24	WG1974241

Sample Narrative:

L1566306-40 WG1974241: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	55.9		1.00	1	12/15/2022 18:14	WG1974451
Fluoride	0.798		0.150	1	12/15/2022 18:14	WG1974451
Sulfate	498		25.0	5	12/17/2022 00:34	WG1975825

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Boron	0.424		0.200	1	12/19/2022 20:20	WG1975471
Lithium	0.0414		0.0150	1	12/19/2022 20:20	WG1975471

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Barium	0.0213		0.00200	1	12/20/2022 17:37	WG1975620
Calcium	44.9		1.00	1	12/20/2022 17:37	WG1975620
Magnesium	37.2		1.00	1	12/20/2022 17:37	WG1975620
Sodium	101		2.00	1	12/20/2022 17:37	WG1975620
Strontium	1.11		0.0100	1	12/20/2022 17:37	WG1975620

Method Blank (MB)

(MB) R3872114-1 12/13/22 01:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1566306-36 Original Sample (OS) • Duplicate (DUP)

(OS) L1566306-36 12/13/22 01:15 • (DUP) R3872114-3 12/13/22 01:15

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2120	2080	1	2.03		5

L1566451-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1566451-01 12/13/22 01:15 • (DUP) R3872114-4 12/13/22 01:15

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1160	1140	1	1.73		5

Laboratory Control Sample (LCS)

(LCS) R3872114-2 12/13/22 01:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8370	95.1	77.3-123	

Method Blank (MB)

(MB) R3872516-1 12/13/22 10:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1564565-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1564565-01 12/13/22 10:12 • (DUP) R3872516-3 12/13/22 10:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	83.0	89.0	1	6.98	J3	5

L1564850-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1564850-06 12/13/22 10:12 • (DUP) R3872516-4 12/13/22 10:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	126	132	1	4.65		5

Laboratory Control Sample (LCS)

(LCS) R3872516-2 12/13/22 10:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	7710	87.6	77.3-123	

Method Blank (MB)

(MB) R3872513-1 12/13/22 11:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1564254-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1564254-05 12/13/22 11:39 • (DUP) R3872513-3 12/13/22 11:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	103	113	1	9.26	J3	5

L1566306-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1566306-07 12/13/22 11:39 • (DUP) R3872513-4 12/13/22 11:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	375	400	1	6.45	J3	5

Laboratory Control Sample (LCS)

(LCS) R3872513-2 12/13/22 11:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	7730	87.8	77.3-123	

Method Blank (MB)

(MB) R3872935-5 12/14/22 12:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1564790-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1564790-11 12/14/22 12:54 • (DUP) R3872935-3 12/14/22 12:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	696	722	1	3.67		5

L1565129-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1565129-02 12/14/22 12:54 • (DUP) R3872935-4 12/14/22 12:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	982	1030	1	4.77		5

Laboratory Control Sample (LCS)

(LCS) R3872935-2 12/14/22 12:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	763	8.67	77.3-123	J4

Method Blank (MB)

(MB) R3872946-1 12/15/22 07:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1566280-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1566280-04 12/15/22 07:51 • (DUP) R3872946-3 12/15/22 07:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	992	1090	1	9.60	J3	5

L1566280-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1566280-05 12/15/22 07:51 • (DUP) R3872946-4 12/15/22 07:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	491	493	1	0.407		5

Laboratory Control Sample (LCS)

(LCS) R3872946-2 12/15/22 07:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	7710	87.6	77.3-123	

Method Blank (MB)

(MB) R3872229-2 12/15/22 10:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1566280-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1566280-05 12/15/22 10:48 • (DUP) R3872229-3 12/15/22 10:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	377	376	1	0.306		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1566281-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1566281-02 12/15/22 12:28 • (DUP) R3872229-4 12/15/22 12:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3872229-1 12/15/22 10:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	101	101	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

QUALITY CONTROL SUMMARY

L1566306-06,07,08,09,10,11

Method Blank (MB)

(MB) R3873261-2 12/19/22 06:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1566306-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1566306-06 12/19/22 07:12 • (DUP) R3873261-3 12/19/22 07:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1566929-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1566929-01 12/19/22 09:07 • (DUP) R3873261-4 12/19/22 09:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	68.4	70.2	1	2.62		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3873261-1 12/19/22 06:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	101	101	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

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

Method Blank (MB)

(MB) R3872467-2 12/15/22 13:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1566280-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1566280-01 12/15/22 14:14 • (DUP) R3872467-3 12/15/22 14:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	522	523	1	0.297		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1567160-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1567160-01 12/15/22 15:50 • (DUP) R3872467-4 12/15/22 15:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	236	231	1	1.92		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3872467-1 12/15/22 13:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	103	103	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3873259-2 12/19/22 07:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1566475-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1566475-01 12/19/22 07:20 • (DUP) R3873259-4 12/19/22 07:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	6000	5700	5	5.13		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1566306-38 Original Sample (OS) • Duplicate (DUP)

(OS) L1566306-38 12/19/22 09:19 • (DUP) R3873259-5 12/19/22 09:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3873259-1 12/19/22 07:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	98.5	98.5	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3873475-2 12/19/22 10:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1566741-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1566741-02 12/19/22 10:19 • (DUP) R3873475-3 12/19/22 10:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1567628-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1567628-01 12/19/22 12:23 • (DUP) R3873475-4 12/19/22 12:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	110	110	1	0.343		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3873475-1 12/19/22 10:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	100	100	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R3872391-1 12/15/22 04:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1566251-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1566251-02 12/15/22 05:36 • (DUP) R3872391-3 12/15/22 05:48

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.28	1.22	1	4.52		15
Fluoride	ND	ND	1	0.000		15
Sulfate	ND	ND	1	0.176		15

L1566306-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1566306-13 12/15/22 11:37 • (DUP) R3872391-6 12/15/22 11:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	8.99	9.00	1	0.0267		15
Fluoride	ND	ND	1	2.43		15
Sulfate	29.5	29.4	1	0.104		15

Laboratory Control Sample (LCS)

(LCS) R3872391-2 12/15/22 05:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	41.6	104	80.0-120	
Fluoride	8.00	8.69	109	80.0-120	
Sulfate	40.0	41.8	105	80.0-120	

L1566251-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1566251-02 12/15/22 05:36 • (MS) R3872391-4 12/15/22 06:01 • (MSD) R3872391-5 12/15/22 06:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1.28	54.1	53.9	106	105	1	80.0-120			0.323	15
Fluoride	5.00	ND	5.62	5.58	112	112	1	80.0-120			0.671	15
Sulfate	50.0	ND	55.2	54.9	106	105	1	80.0-120			0.413	15

L1566306-13 Original Sample (OS) • Matrix Spike (MS)

(OS) L1566306-13 12/15/22 11:37 • (MS) R3872391-7 12/15/22 12:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	8.99	60.7	103	1	80.0-120	
Fluoride	5.00	ND	5.51	108	1	80.0-120	
Sulfate	50.0	29.5	80.0	101	1	80.0-120	

Method Blank (MB)

(MB) R3872146-1 12/14/22 14:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.389	J	0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1566306-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1566306-18 12/14/22 16:25 • (DUP) R3872146-3 12/14/22 16:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	6.34	6.40	1	0.954		15
Fluoride	ND	ND	1	2.76		15
Sulfate	38.9	39.2	1	0.636		15

L1566306-35 Original Sample (OS) • Duplicate (DUP)

(OS) L1566306-35 12/15/22 00:44 • (DUP) R3872146-8 12/15/22 00:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	42.1	42.1	1	0.176		15
Fluoride	0.333	0.333	1	0.180		15

Laboratory Control Sample (LCS)

(LCS) R3872146-2 12/14/22 14:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.6	101	80.0-120	
Fluoride	8.00	8.41	105	80.0-120	
Sulfate	40.0	39.8	99.5	80.0-120	

L1566306-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1566306-18 12/14/22 16:25 • (MS) R3872146-4 12/14/22 16:54 • (MSD) R3872146-5 12/14/22 17:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	6.34	57.7	57.8	103	103	1	80.0-120			0.152	15
Fluoride	5.00	ND	5.29	5.30	104	104	1	80.0-120			0.198	15

L1566306-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1566306-18 12/14/22 16:25 • (MS) R3872146-4 12/14/22 16:54 • (MSD) R3872146-5 12/14/22 17:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	50.0	38.9	89.8	89.8	102	102	1	80.0-120			0.0257	15

L1566306-35 Original Sample (OS) • Matrix Spike (MS)

(OS) L1566306-35 12/15/22 00:44 • (MS) R3872146-9 12/15/22 01:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	42.1	91.8	99.4	1	80.0-120	
Fluoride	5.00	0.333	5.43	102	1	80.0-120	

Method Blank (MB)

(MB) R3872632-1 12/15/22 23:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1566234-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1566234-01 12/16/22 00:51 • (DUP) R3872632-3 12/16/22 01:13

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	18.7	17.3	1	7.68		15
Fluoride	0.160	0.189	1	17.0	P1	15
Sulfate	41.1	41.6	1	1.09		15

L1566234-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1566234-05 12/16/22 03:44 • (DUP) R3872632-6 12/16/22 04:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	51.2	51.5	1	0.496		15
Fluoride	ND	ND	1	200	P1	15
Sulfate	39.2	39.5	1	0.859		15

Laboratory Control Sample (LCS)

(LCS) R3872632-2 12/15/22 23:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.2	101	80.0-120	
Fluoride	8.00	8.35	104	80.0-120	
Sulfate	40.0	40.7	102	80.0-120	

L1566234-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1566234-01 12/16/22 00:51 • (MS) R3872632-4 12/16/22 01:29 • (MSD) R3872632-5 12/16/22 01:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	18.7	67.0	66.7	96.6	96.0	1	80.0-120			0.448	15
Fluoride	5.00	0.160	5.45	5.42	106	105	1	80.0-120			0.548	15
Sulfate	50.0	41.1	88.8	88.7	95.4	95.1	1	80.0-120			0.154	15

L1566234-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1566234-05 12/16/22 03:44 • (MS) R3872632-7 12/16/22 04:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	51.2	99.7	96.9	1	80.0-120	
Fluoride	5.00	ND	5.37	107	1	80.0-120	
Sulfate	50.0	39.2	87.9	97.5	1	80.0-120	

Method Blank (MB)

(MB) R3872733-1 12/15/22 11:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1566306-40 Original Sample (OS) • Duplicate (DUP)

(OS) L1566306-40 12/15/22 18:14 • (DUP) R3872733-6 12/15/22 18:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	55.9	56.0	1	0.179		15
Fluoride	0.798	0.802	1	0.513		15
Sulfate	502	502	1	0.0512	E	15

L1566343-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1566343-02 12/15/22 14:09 • (DUP) R3872733-3 12/15/22 14:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	363	361	5	0.505		15
Fluoride	ND	ND	5	2.28		15
Sulfate	506	505	5	0.295		15

Laboratory Control Sample (LCS)

(LCS) R3872733-2 12/15/22 11:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.5	101	80.0-120	
Fluoride	8.00	8.23	103	80.0-120	
Sulfate	40.0	39.1	97.7	80.0-120	

L1566306-40 Original Sample (OS) • Matrix Spike (MS)

(OS) L1566306-40 12/15/22 18:14 • (MS) R3872733-7 12/15/22 19:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	55.9	105	98.5	1	80.0-120	
Fluoride	5.00	0.798	5.96	103	1	80.0-120	
Sulfate	50.0	502	531	58.7	1	80.0-120	E V

L1566343-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1566343-02 12/15/22 14:09 • (MS) R3872733-4 12/15/22 14:38 • (MSD) R3872733-5 12/15/22 14:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	363	385	387	44.8	49.7	5	80.0-120	V	V	0.631	15
Fluoride	5.00	ND	5.20	5.06	94.4	91.7	5	80.0-120			2.65	15
Sulfate	50.0	506	518	521	23.7	28.8	5	80.0-120	V	V	0.489	15

Method Blank (MB)

(MB) R3872913-1 12/16/22 07:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sulfate	U		0.594	5.00

L1566270-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1566270-08 12/16/22 10:58 • (DUP) R3872913-3 12/16/22 11:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	68.5	67.3	1	1.76		15

Laboratory Control Sample (LCS)

(LCS) R3872913-2 12/16/22 07:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	40.7	102	80.0-120	

L1566270-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1566270-08 12/16/22 10:58 • (MS) R3872913-4 12/16/22 11:24 • (MSD) R3872913-5 12/16/22 11:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	50.0	68.5	116	115	94.4	93.9	1	80.0-120			0.239	15

Method Blank (MB)

(MB) R3873032-1 12/16/22 23:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sulfate	U		0.594	5.00

L1567704-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1567704-01 12/17/22 02:07 • (DUP) R3873032-3 12/17/22 02:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	7.05	6.86	1	2.82		15

Laboratory Control Sample (LCS)

(LCS) R3873032-2 12/17/22 00:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfate	40.0	38.8	96.9	80.0-120	

L1567704-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1567704-01 12/17/22 02:07 • (MS) R3873032-4 12/17/22 02:43 • (MSD) R3873032-5 12/17/22 03:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfate	50.0	7.05	57.8	58.0	102	102	1	80.0-120			0.330	15

Method Blank (MB)

(MB) R3873672-1 12/20/22 00:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200
Lithium	U		0.00485	0.0150

Laboratory Control Sample (LCS)

(LCS) R3873672-2 12/20/22 00:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.972	97.2	80.0-120	
Lithium	1.00	1.03	103	80.0-120	

L1565809-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1565809-24 12/20/22 13:37 • (MS) R3873908-4 12/20/22 14:54 • (MSD) R3873908-8 12/20/22 14:56

Analyte	Spike Amount mg/l	Original Result	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00		1.01	1.01	101	101	1	75.0-125			0.00338	20

Method Blank (MB)

(MB) R3872437-1 12/15/22 16:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200
Lithium	U		0.00485	0.0150

Laboratory Control Sample (LCS)

(LCS) R3872437-2 12/15/22 16:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.976	97.6	80.0-120	
Lithium	1.00	0.949	94.9	80.0-120	

L1563677-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1563677-02 12/15/22 16:30 • (MS) R3872437-4 12/15/22 16:36 • (MSD) R3872437-5 12/15/22 16:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	0.302	1.29	1.28	98.6	97.7	1	75.0-125			0.685	20
Lithium	1.00	0.0373	1.02	1.02	98.1	98.6	1	75.0-125			0.462	20

Method Blank (MB)

(MB) R3872480-1 12/16/22 00:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200
Lithium	U		0.00485	0.0150

Laboratory Control Sample (LCS)

(LCS) R3872480-2 12/16/22 00:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.945	94.5	80.0-120	
Lithium	1.00	0.959	95.9	80.0-120	

L1565593-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1565593-11 12/16/22 00:36 • (MS) R3872480-4 12/16/22 00:41 • (MSD) R3872480-5 12/16/22 00:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	1.82	2.73	2.71	91.0	88.9	1	75.0-125			0.788	20
Lithium	1.00	0.0618	1.03	1.01	97.2	94.9	1	75.0-125			2.24	20

Method Blank (MB)

(MB) R3872684-1 12/16/22 08:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200
Lithium	U		0.00485	0.0150

Laboratory Control Sample (LCS)

(LCS) R3872684-2 12/16/22 08:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.922	92.2	80.0-120	
Lithium	1.00	1.00	100	80.0-120	

L1566306-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1566306-28 12/16/22 08:31 • (MS) R3872684-4 12/16/22 08:37 • (MSD) R3872684-5 12/16/22 08:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	ND	1.09	1.10	91.8	92.9	1	75.0-125			0.999	20
Lithium	1.00	0.0463	1.02	1.03	97.0	98.2	1	75.0-125			1.13	20

Method Blank (MB)

(MB) R3873612-1 12/19/22 19:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200
Lithium	U		0.00485	0.0150

Laboratory Control Sample (LCS)

(LCS) R3873612-2 12/19/22 19:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.974	97.4	80.0-120	
Lithium	1.00	1.01	101	80.0-120	

L1566306-39 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1566306-39 12/19/22 19:35 • (MS) R3873612-4 12/19/22 19:40 • (MSD) R3873612-5 12/19/22 19:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	ND	1.04	1.03	98.8	97.5	1	75.0-125			1.25	20
Lithium	1.00	ND	1.02	1.01	101	99.7	1	75.0-125			1.07	20

Method Blank (MB)

(MB) R3874341-1 12/21/22 08:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0200	0.200
Lithium	U		0.00485	0.0150

Laboratory Control Sample (LCS)

(LCS) R3874341-2 12/21/22 08:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Boron	1.00	0.984	98.4	80.0-120	
Lithium	1.00	0.996	99.6	80.0-120	

L1565747-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1565747-01 12/21/22 08:57 • (MS) R3874341-4 12/21/22 09:03 • (MSD) R3874341-5 12/21/22 09:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Boron	1.00	85.8	98.4	95.8	1260	998	1	75.0-125	E V	E V	2.71	20
Lithium	1.00	2.97	4.43	4.31	146	133	1	75.0-125	J5	J5	2.77	20

Method Blank (MB)

(MB) R3873134-1 12/17/22 14:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Barium	0.00127	J	0.000381	0.00200
Calcium	U		0.0936	1.00
Magnesium	U		0.0735	1.00
Sodium	U		0.376	2.00
Strontium	U		0.000590	0.0100

Laboratory Control Sample (LCS)

(LCS) R3873134-2 12/17/22 14:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	0.0500	0.0515	103	80.0-120	
Calcium	5.00	5.27	105	80.0-120	
Magnesium	5.00	5.40	108	80.0-120	
Sodium	5.00	5.17	103	80.0-120	
Strontium	0.0500	0.0517	103	80.0-120	

L1564745-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1564745-01 12/17/22 14:40 • (MS) R3873134-4 12/17/22 14:46 • (MSD) R3873134-5 12/17/22 14:50

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	0.0500	0.122	0.174	0.174	104	104	1	75.0-125			0.0903	20
Calcium	5.00	199	202	199	71.4	6.90	1	75.0-125	V	V	1.61	20
Magnesium	5.00	18.6	23.7	24.3	102	115	1	75.0-125			2.60	20
Sodium	5.00	72.2	74.7	74.7	49.1	49.0	1	75.0-125	V	V	0.00540	20
Strontium	0.0500	0.406	0.449	0.451	85.2	89.6	1	75.0-125			0.487	20

Method Blank (MB)

(MB) R3874091-1 12/20/22 16:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Barium	0.000529	J	0.000381	0.00200
Calcium	0.106	J	0.0936	1.00
Magnesium	U		0.0735	1.00
Sodium	0.489	J	0.376	2.00
Strontium	U		0.000590	0.0100

Laboratory Control Sample (LCS)

(LCS) R3874091-2 12/20/22 16:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	0.0500	0.0476	95.1	80.0-120	
Calcium	5.00	4.92	98.3	80.0-120	
Magnesium	5.00	5.13	103	80.0-120	
Sodium	5.00	5.21	104	80.0-120	
Strontium	0.0500	0.0481	96.3	80.0-120	

L1566306-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1566306-21 12/20/22 16:11 • (MS) R3874091-4 12/20/22 16:18 • (MSD) R3874091-5 12/20/22 16:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	0.0500	0.127	0.179	0.175	105	96.4	1	75.0-125			2.37	20
Calcium	5.00	52.1	57.4	57.1	105	99.3	1	75.0-125			0.500	20
Magnesium	5.00	11.4	16.6	16.6	104	104	1	75.0-125			0.00458	20
Sodium	5.00	43.7	49.4	49.2	113	109	1	75.0-125			0.403	20
Strontium	0.0500	1.27	1.30	1.29	56.1	28.8	1	75.0-125	V	V	1.06	20

QUALITY CONTROL SUMMARY

L1566306-04,05,06,07,08,09

Method Blank (MB)

(MB) R3874087-1 12/20/22 14:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Barium	0.000405	J	0.000343	0.00180
Calcium	U		0.0842	0.900
Magnesium	U		0.0662	0.900
Sodium	U		0.338	1.80
Strontium	U		0.000531	0.00900

Laboratory Control Sample (LCS)

(LCS) R3874087-2 12/20/22 14:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	0.0500	0.0424	84.7	80.0-120	
Calcium	5.00	4.40	88.0	80.0-120	
Magnesium	5.00	4.63	92.6	80.0-120	
Sodium	5.00	4.58	91.6	80.0-120	
Strontium	0.0500	0.0429	85.9	80.0-120	

L1565809-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1565809-03 12/20/22 14:56 • (MS) R3874087-4 12/20/22 15:03 • (MSD) R3874087-5 12/20/22 15:06

Analyte	Spike Amount mg/l	Original Result	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	0.0450		0.0541	0.0532	99.3	97.3	.9	75.0-125			1.69	20
Calcium	4.50		14.6	14.4	98.3	95.1	.9	75.0-125			0.981	20
Magnesium	4.50		5.47	5.38	105	103	.9	75.0-125			1.67	20
Sodium	4.50		5.69	5.62	106	104	.9	75.0-125			1.20	20
Strontium	0.0450		0.0617	0.0615	97.9	97.4	.9	75.0-125			0.363	20

QUALITY CONTROL SUMMARY

L1566306-10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

(MB) R3874637-1 12/21/22 22:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Barium	U		0.000381	0.00200
Calcium	U		0.0936	1.00
Magnesium	U		0.0735	1.00
Sodium	U		0.376	2.00
Strontium	U		0.000590	0.0100

Laboratory Control Sample (LCS)

(LCS) R3874637-2 12/21/22 22:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	0.0500	0.0455	90.9	80.0-120	
Calcium	5.00	5.06	101	80.0-120	
Magnesium	5.00	5.10	102	80.0-120	
Sodium	5.00	4.91	98.2	80.0-120	
Strontium	0.0500	0.0486	97.1	80.0-120	

L1567068-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1567068-02 12/21/22 22:42 • (MS) R3874637-4 12/21/22 22:49 • (MSD) R3874637-5 12/21/22 22:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	0.0500	0.130	0.178	0.179	95.5	98.0	1	75.0-125			0.696	20
Calcium	5.00	217	216	218	0.000	17.1	1	75.0-125	V	V	0.997	20
Magnesium	5.00	86.7	88.5	90.3	35.6	72.5	1	75.0-125	V	V	2.06	20
Sodium	5.00	216	211	217	0.000	14.4	1	75.0-125	V	V	2.54	20
Strontium	0.0500	3.91	3.87	3.88	0.000	0.000	1	75.0-125	V	V	0.186	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.
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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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	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.

Page 1 of 5

GBMC & Associates - Bryant, AR

219 Brown Lane
Bryant, AR 72022

Billing Information:
Accounts Payable
219 Brown Ln.
Bryant, AR 72022

Pres Chk

Report to: **Jonathan Brown**

Email To: **jbrown@gbmcassoc.com;**

Project Description: Entergy - White Bluff

City/State Collected: **Redfield, AR**

Please Circle: PT MT (CT) ET

Phone: **501-847-7077**

Client Project # **1145-21-080**

Lab Project # **GBMCBAR-ENTERGYWB**

Collected by (print): **Danielle Braund**

Site/Facility ID # **CADL-CCR**

P.O. #

Collected by (signature): Danielle Braund

Immediately Packed on Ice N ___ Y X

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

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	ALK, Cl, F, SO4 250mlHDPE-NoPres	Metals* 250mlHDPE - HNO3								Remarks	Sample # (lab only)
MW-101S	Grab	GW	38.8	12/7/22	1537	4 (MW) 2	X	X								5.51	-01
MW-102S	Grab	GW	34.6	12/6/22	1415	2	X	X								5.94	-02
MW-103S	Grab	GW	19.3	12/6/22	1345	2	X	X								4.74	-03
MW-104S	Grab	GW	32.2	12/8/22	1135	2	X	X								4.90	-04
MW-105S	Grab	GW	30.9	12/6/22	0907	2	X	X								5.57	-05
MW-106S	Grab	GW	12.0	12/6/22	0943	2	X	X								3.83	-06
MW-110S	Grab	GW	14.3	12/6/22	1309	2	X	X								4.11	-07
MW-111S	Grab	GW	14.3	12/6/22	1013	2	X	X								3.71	-08
MW-101D	Grab	GW	96.8	12/6/22	1620	2	X	X								7.15	-09
MW-102D	Grab	GW	92.4	12/7/22	1435	2	X	X								6.80	-10

Chain of Custody

Pace Analytical®
National Center for Testing & Innovation

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

SDG # L1566306

F066

Acctnum: **GBMCBAR**
Template: **T198831**
Prelogin: **P963501**
PM: **134-Mark Beasley**
PB:

Shipped Via:

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

Remarks:
Metals = Ba, B, Ca, Li, Mg, Na, Sr **Final pH in remarks** **internal COC2**

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)	Trip Blank Received: Yes (No) HCL / MeoH TBR	If preservation required by Login: Date/Time
Danielle Braund	12/9/22	0900			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 160	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Matt Lyn	Date: 12-10-22 Time: 1000	Hold: / Condition: NCF / OK

GBMC & Associates - Bryant, AR

219 Brown Lane
Bryant, AR 72022

Billing Information:
Accounts Payable
219 Brown Ln.
Bryant, AR 72022

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 5

Pace Analytical®
National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: **Jonathan Brown**

Email To: **jbrown@gbmcassoc.com;**

Project Description: Entergy - White Bluff

City/State Collected: **Redfield, AR**

Please Circle: PT MT (CT) ET

Phone: **501-847-7077**

Client Project # **1145-21-080**

Lab Project # **GBMCBAR-ENTERGYWB**

SDG # 15663306

Table #

Collected by (print): **Danielle Braund**

Site/Facility ID # **CADL-CCR**

P.O. #

Acctnum: **GBMCBAR**

Template: **T198831**

Prelogin: **P963501**

PM: **134-Mark Beasley**

PB:

Collected by (signature): Danielle Braund

Immediately Packed on Ice N ___ Y X

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

Date Results Needed

Quote #

Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	ALK, Cl, F, SO4 250mlHDPE-NoPres	Metals* 250mlHDPE - HNO3								Remarks	Sample # (lab only)
MW-103D	Grab	GW	40.6	12/8/22	1337	4	X	X								7.43	-11
MW-104D	Grab	GW	86.8	12/6/22	1020	2	X	X								7.62	-12
MW-105D	Grab	GW	80.1	12/8/22	0922	2	X	X								7.32	-13
MW-106D	Grab	GW	41.3	12/8/22	1235	2	X	X								7.21	-14
MW-107D	Grab	GW	24.0	12/6/22	1049	2	X	X								7.13	-15
MW-108D	Grab	GW	46.0	12/5/22	1330	2	X	X								7.63	-16
MW-109D	Grab	GW	79.4	12/5/22	1145	2	X	X								7.71	-17
MW-110D	Grab	GW	33.8	12/5/22	1430	2	X	X								7.71	-18
MW-112D	Grab	GW	87.4	12/7/22	1640	2	X	X								7.15	-19
MW-113D	Grab	GW	9.7	12/6/22	1427	2	X	X								6.76	-20

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

Remarks:
Metals = Ba, B, Ca, Li, Mg, Na, Sr **Final pH in remarks** **internal COC2**

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)	Trip Blank Received: Yes / (No) HCL / MeoH TBR	If preservation required by Login: Date/Time
Danielle Braund	12/9/22	0900			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 160	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12-10-22 Time: 1000	Hold: / Condition: NCF / OK

GBMC & Associates - Bryant, AR

219 Brown Lane
Bryant, AR 72022

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Pres Chk

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P.O. #

Collected by (signature): Danielle Braund

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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

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	ALK, Cl, F, SO4 250mlHDPE-NoPres	Metals* 250mlHDPE-HNO3								Remarks	Sample # (lab only)
						12		12									
MW-114D	Grab	GW	60.5	12/5/22	1640	4 2	X	X								7.81	-21
MW-115D	Grab	GW	75.0	12/5/22	1240	2	X	X								7.78	-22
MW-118D	Grab	GW	41.1	12/5/22	1600	2	X	X								7.23	-23
FIELD BLANK 1	Grab	GW	-	12/6/22	1530	2	X	X								DI H2O	-24
FIELD BLANK 2	Grab	GW	-	12/7/22	1420	2	X	X								DI H2O	-25
DUPLICATE 1 107D	Grab	GW	24.0	12/6/22	1049	2	X	X								7.13	-26
DUPLICATE 2 106S	Grab	GW	14.3	12/6/22	1309	2	X	X								411	-27
DUPLICATE 3 101D	Grab	GW	96.8	12/6/22	1620	2	X	X								7.15	-28
	Grab	GW															
	Grab	GW															

Chain of Custody Page 3 of 5

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

SDG # 15663D6

Table #

Acctnum: **GBMCBAR**
Template: **T198831**
Prelogin: **P963501**
PM: **134-Mark Beasley**
PB:

Shipped Via:

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

Remarks:
Metals=Ba,B,Ca,Li,Mg,Na,Sr **Final pH in remarks** **internal COC2**

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)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Danielle Braund	12/9/22	0900			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 160	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Matt Lyon	Date: 12-10-22 Time: 1000	Hold: / Condition: NCF / OK

GBMC & Associates - Bryant, AR

219 Brown Lane
Bryant, AR 72022

Billing Information:
Accounts Payable
219 Brown Ln.
Bryant, AR 72022

Report to: **Jonathan Brown**

Email To: **jbrown@gbmcassoc.com;**

Project Description: Entergy - White Bluff

City/State Collected: **Redfield, AR**

Please Circle: PT MT (CT) ET

Phone: **501-847-7077**

Client Project # **1145-21-080**

Lab Project # **GBMCBAR-ENTERGYWB**

Collected by (print): **Danielle Braund**

Site/Facility ID # **CADL-CCR**

P.O. #

Collected by (signature): Danielle Braund

Immediately Packed on Ice N ___ Y X

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

Date Results Needed

Quote #

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	ALK, Cl, F, SO4 250mlHDPE-NoPres	Metals* 250mlHDPE-HNO3								Remarks	Sample # (lab only)
							2 ✓										
RP FIELD BLANK	Grab	GW	-	12/6/22	0900	4 2	X	X								DI H2O	-29
RP DUPLICATE RP-8	Grab	GW	11.7	12/5/22	1424	2	X	X								3.61	-30
	Grab	GW				2	X	X									
	Grab	GW				2	X	X									
	Grab	GW				2	X	X									
	Grab	GW				2	X	X									
	Grab	GW				2	X	X									
	Grab	GW				2	X	X									
	Grab	GW				2	X	X									
	Grab	GW				2	X	X									

Chain of Custody Page 5 of 5

Pace Analytical® National Center for Testing & Innovation

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

SDG # 15666306

Table #

Acctnum: **GBMCBAR**
Template: **T198831**
Prelogin: **P963501**
PM: **134-Mark Beasley**
PB:

Shipped Via:

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

Remarks:
Metals = Ba,B,Ca,Li,Mg,Na,Sr **Final pH in remarks** **internal COC2**

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)	Trip Blank Received: Yes / (No) HCL / MeoH TBR
Danielle Braund	12/9/22	0900		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 160
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Matt Lyon	Date: 12-10-22 Time: 1000

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Chain of Custody Page 4 of 5

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
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GBMC & Associates - Bryant, AR

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Project Description: Entergy - White Bluff

City/State Collected: **Redfield, AR**

Please Circle: PT MT (CT) ET

Phone: **501-847-7077**

Client Project # **1145-21-080**

Lab Project # **GBMCBAR-ENTERGYWB**

Collected by (print): **Danielle Braund**

Site/Facility ID # **CADL-CCR**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Date Results Needed

Quote #

SDG # 15664306

Table #

Acctnum: **GBMCBAR**

Template: **T198831**

Prelogin: **P963501**

PM: **134-Mark Beasley**

PB:

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	ALK, Cl, F, SO4 250mlHDPE-NoPres	Metals* 250mlHDPE-HNO3	Remarks	Sample # (lab only)
RP-1	Grab	GW	9.5	12/5/22	1555	~~4~~ 2	X	X	3.61	-31
RP-2	Grab	GW	15.8	12/5/22	1529	2	X	X	4.46	-32
RP-3	Grab	GW	8.6	12/5/22	1457	2	X	X	3.61	-33
RP-4	Grab	GW	9.2	12/6/22	0837	2	X	X	5.53	-34
RP-5	Grab	GW	10.2	12/5/22	1302	2	X	X	3.35	-35
RP-6	Grab	GW	10.5	12/5/22	1336	2	X	X	3.91	-36
RP-7	Grab	GW	11.7	12/5/22	1359	2	X	X	3.46	-37
RP-8	Grab	GW	11.7	12/5/22	1424	2	X	X	3.61	-38
RP-9	Grab	GW	9.6	12/5/22	1633	2	X	X	6.32	-39
RP-10	Grab	GW	8.7	12/5/22	1702	2	X	X	3.20	-40

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

Remarks:
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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)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Danielle Braund	12/9/22	0900			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 160	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Matt Lyon	Date: 12-10-22 Time: 1000	Hold: Condition: NCF / OK

15464304

Tracking Numbers	Temperature
6126 6537 7779	GBA2 0.7
7746	0.8
7757	0.4
7768	5.6