

Entergy Arkansas, LLC Independence Steam Electric Station Landfill Cells 12-15

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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Prepared by:



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January 31, 2023



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EXECUTIVE SUMMARY

Entergy Arkansas, LLC (Entergy), operates a coal ash disposal landfill (Landfill) for the disposal of coal combustion residuals (CCR) at the Independence Steam Electric Station (Plant) located near Newark, Arkansas. The Landfill receives CCR generated from the combustion of coal at the Plant. Management of CCR at the Landfill 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 Landfill CCR Unit monitoring well network per 40 CFR § 257.94. The statistical analyses completed for the second semi-annual 2021 and the first semi-annual 2022 monitoring events did not identify any statistically significant exceedances. The Landfill CCR unit operated under the detection monitoring program (40 CFR § 257.94) during the duration of 2022.



1. INTRODUCTION

Entergy Arkansas, LLC (Entergy), operates the Landfill for the disposal of CCR at the Plant located near Newark, Arkansas (Lat: 35.67826 / Long: -91.408848). The Landfill receives CCR generated from the combustion of coal at the Plant. The CCR Landfill is managed in accordance with the national criteria established in the CCR Rule. Entergy installed a groundwater monitoring system at the Landfill 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 Landfill.



2. GROUNDWATER MONITORING SYSTEM

The Landfill's groundwater monitoring system consists of 11 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 and December) of 2022 for analysis of Appendix III parameters (boron, calcium, chloride, fluoride, pH, sulfate and total dissolved solids (TDS)).
- 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.
- The second-half 2022 detection monitoring sampling was performed during November and December 2022. Statistical evaluation of the data will be performed in 2023 to determine if any SSIs are identified in accordance with §257.93(h).
- No problems were encountered during 2022 regarding the detection monitoring and corrective action system. Therefore, no actions were required to modify the system.
- The Landfill CCR unit remained in detection monitoring during 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 and first-half 2023 detection monitoring sampling data will be performed during 2023 to determine if any SSIs are identified.
- Semiannual detection monitoring is planned for June and November 2023.



APPENDIX A SITE MAP



1,800	DATE:	OCTOBER
Feet		
" = 900 ' 1:10,800		TRC

PROVED BY:

J. HOUSE OCTOBER 2020

FILE NO.:

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

FIGURE 1

341479-005IND.mxd



APPENDIX B GROUNDWATER MONITORING DATA



Sampling Schedule, Entergy Independence CADL Network								
			I K					
	Sam	ampling Dates and Wells						
	3011	•						
	52	023						
	,202	11/29-12/1/2022						
	6/7-6/8/2022	N						
	9-7'	Number of						
Well ID	6,	Samples Collected						
	X							
MW-1R	Х	Х	2					
MW-3	Х	х	2					
MW-6	Х	Х	2					
MW-7	Х	Х	2					
MW-8	Х	х	2					
MW-9	Х	Х	2					
MW-10	Х	Х	2					
MW-11	Х	Х	2					
MW-13	Х	1	1					
MW-17	Х	1	1					
MW-18	Х	1	1					

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.

¹ Wells MW-13, MW-17 and MW-18 are background wells collected for comparison purposes only. These wells were not accessible during Q4 2022.



Field pH	data collected during 2022, Ente	ergy Independence CADL network
Well ID	Date Collected	pH (su)
MW-1R	6/7/2022	7.03
	11/30/2022	6.89
MW-3	6/8/2022	7.51
10100-3	12/1/2022	6.81
MW-6	6/8/2022	7.09
10100-0	12/1/2022	6.75
	6/7/2022	8.33
MW-7	12/1/2022	7.64
	6/8/2022	7.34
MW-8	11/29/2022	7.03
	6/8/2022	7.31
MW-9	11/30/2022	6.48
NAVA 10	6/8/2022	7.51
MW-10	11/30/2022	6.75
	6/7/2022	7.73
MW-11	12/1/2022	7.00
NAV 12	6/8/2022	7.64
MW-13	Not Sampled	N/A
	6/7/2022	6.97
MW-17	Not Sampled	N/A
NA1A/ 10	6/7/2022	7.25
MW-18	Not Sampled	N/A



Pace Analytical® ANALYTICAL REPORT July 11, 2022

GBMc & Associates - Bryant, AR

Sample Delivery Group:	L1503624
Samples Received:	06/09/2022
Project Number:	1145-21-081
Description:	Entergy ISES
Site:	ISES
Report To:	Jonathan Brown
	219 Brown Lane
	Bryant, AR 72022

Тс Ss Cn Śr ʹQc Gl A Sc

Entire Report Reviewed By:

Mark W. Beasley Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

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

ACCOUNT: GBMc & Associates - Bryant, AR PROJECT: 1145-21-081

SDG: L1503624

DATE/TIME: 07/11/22 15:52 PAGE: 1 of 62

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¹Cp ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

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Ср

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⁴Cn

Sr

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GI

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⁹Sc

MW-1R L1503624-01 GW			Collected by Danielle Braund	Collected date/time 06/07/22 16:00	Received da 06/09/22 09		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	_
Gravimetric Analysis by Method 2540 C-2011	WG1878757	1	06/13/22 16:07	06/13/22 17:17	MMF	Mt. Juliet, TN	
Net Chemistry by Method 9056A	WG1888329	1	07/01/22 13:48	07/01/22 13:48	LBR	Mt. Juliet, TN	
Vet Chemistry by Method 9056A	WG1888329	5	07/01/22 14:33	07/01/22 14:33	LBR	Mt. Juliet, TN	
Metals (ICP) by Method 6010B	WG1882587	1	06/23/22 14:03	07/01/22 03:10	CCE	Mt. Juliet, TN	
Metals (ICPMS) by Method 6020	WG1882557	1	06/27/22 03:06	06/28/22 01:01	SJM	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
MW-2 L1503624-02 GW			Danielle Braund	06/07/22 10:25	06/09/22 09	0:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Gravimetric Analysis by Method 2540 C-2011	WG1878757	1	06/13/22 16:07	06/13/22 17:17	MMF	Mt. Juliet, TN	
Vet Chemistry by Method 9056A	WG1888329	1	07/01/22 14:48	07/01/22 14:48	LBR	Mt. Juliet, TN	
Metals (ICP) by Method 6010B	WG1882587	1	06/23/22 14:03	07/01/22 03:12	CCE	Mt. Juliet, TN	
Metals (ICPMS) by Method 6020	WG1882557	1	06/27/22 03:06	06/28/22 01:11	SJM	Mt. Juliet, TN	
MW-3 L1503624-03 GW			Collected by Danielle Braund	Collected date/time 06/08/22 10:40	Received da 06/09/22 09		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	_
Gravimetric Analysis by Method 2540 C-2011	WG1879782	1	06/15/22 15:02	06/15/22 15:42	MMF	Mt. Juliet, TN	
	WG1879782 WG1888329		07/01/22 15:02	07/01/22 15:18	LBR		
Vet Chemistry by Method 9056A		1				Mt. Juliet, TN	
Aetals (ICP) by Method 6010B	WG1882587	1	06/23/22 14:03	07/01/22 03:15	CCE	Mt. Juliet, TN	
Metals (ICPMS) by Method 6020	WG1882557	1	06/27/22 03:06	06/28/22 01:14	SJM	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da		
MW-6 L1503624-04 GW			Danielle Braund	06/08/22 09:20	06/09/22 09	0:00	
M ethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Gravimetric Analysis by Method 2540 C-2011	WG1879782	1	06/15/22 15:02	06/15/22 15:42	MMF	Mt. Juliet, TN	
Net Chemistry by Method 9056A	WG1888329	1	07/01/22 15:33	07/01/22 15:33	LBR	Mt. Juliet, TN	
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 10:34	CCE	Mt. Juliet, TN	
Aletals (ICPMS) by Method 6020	WG1882557	1	06/27/22 03:06	06/28/22 01:17	SJM	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
MW-7 L1503624-05 GW			Danielle Braund	06/07/22 15:10	06/09/22 09	:00	
Nethod	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
Gravimetric Analysis by Method 2540 C-2011	WG1878757	1	06/13/22 16:07	06/13/22 17:17	MMF	Mt. Juliet, TN	
Vet Chemistry by Method 9056A	WG1888329	1	07/01/22 15:48	07/01/22 15:48	LBR	Mt. Juliet, TN	
Netals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 10:44	CCE	Mt. Juliet, TN	
Aetals (ICPMS) by Method 6020	WG1882557	1	06/27/22 03:06	06/28/22 01:21	SJM	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
MW-8 L1503624-06 GW			Danielle Braund	06/08/22 13:50	06/09/22 09	0:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	_
Gravimetric Analysis by Method 2540 C-2011	WG1879782	1	06/15/22 15:02	06/15/22 15:42	MMF	Mt. Juliet, TN	_
Net Chemistry by Method 9056A	WG1888329	1	07/01/22 16:03	07/01/22 16:03	LBR	Mt. Juliet, TN	
Vet Chemistry by Method 9056A	WG1888329	5	07/01/22 16:28	07/01/22 16:28	LBR	Mt. Juliet, TN	
Aetals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 10:47	CCE	Mt. Juliet, TN	
Metals (ICPMS) by Method 6020	WG1882557	1	06/27/22 03:06	06/28/22 01:24	SJM	Mt. Juliet, TN	
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MW-9 L1503624-07 GW			Collected by Danielle Braund	Collected date/time 06/08/22 13:12	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1880039	1	06/15/22 18:14	06/15/22 18:54	SJF	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1888429	1	07/02/22 05:17	07/02/22 05:17	ELN	Mt. Juliet, T
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 10:50	CCE	Mt. Juliet, T
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 15:12	LD	Mt. Juliet, T
MW-10 L1503624-08 GW			Collected by Danielle Braund	Collected date/time 06/08/22 12:00	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1880039	1	06/15/22 18:14	06/15/22 18:54	SJF	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1888429	1	07/02/22 05:30	07/02/22 05:30	ELN	Mt. Juliet, TI
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 10:52	CCE	Mt. Juliet, TI
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 15:26	LD	Mt. Juliet, TI
MW-11 L1503624-09 GW			Collected by Danielle Braund	Collected date/time 06/07/22 18:00	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878757	1	06/13/22 16:07	06/13/22 17:17	MMF	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1888425	1	07/02/22 18:11	07/02/22 18:11	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:01	CCE	Mt. Juliet, TI
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 15:30	LD	Mt. Juliet, TI
MW-13 L1503624-10 GW			Collected by Danielle Braund	Collected date/time 06/08/22 14:33	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1880039	1	06/15/22 18:14	06/15/22 18:54	SJF	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1888429	1	07/02/22 05:44	07/02/22 05:44	ELN	Mt. Juliet, TI
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:03	CCE	Mt. Juliet, TI
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 15:33	LD	Mt. Juliet, T
MW-17 L1503624-11 GW			Collected by Danielle Braund	Collected date/time 06/07/22 08:27	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878757	1	06/13/22 16:07	06/13/22 17:17	MMF	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1888425	1	07/02/22 18:25	07/02/22 18:25	LBR	Mt. Juliet, TI
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:06	CCE	Mt. Juliet, TI
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 15:36	LD	Mt. Juliet, TI
			Collected by	Collected date/time	Received da	
MW-18 L1503624-12 GW			Danielle Braund	06/07/22 09:10	06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878757	1	06/13/22 16:07	06/13/22 17:17	MMF	Mt. Juliet, TI
Wet Chemistry by Method 9056A	WG1888425	1	07/02/22 18:40	07/02/22 18:40	LBR	Mt. Juliet, TI
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:09	CCE	Mt. Juliet, T
					LD	

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RP-1 L1503624-13 GW			Collected by Danielle Braund	Collected date/time 06/06/22 18:12	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878565	1	06/13/22 13:20	06/13/22 14:24	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1888423	1	07/01/22 12:19	07/01/22 12:19	LBR	Mt. Juliet, TI
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:12	CCE	Mt. Juliet, TI
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 15:49	LD	Mt. Juliet, TI
RP-2 L1503624-14 GW			Collected by Danielle Braund	Collected date/time 06/07/22 08:27	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1879064	1	06/14/22 11:58	06/14/22 13:06	SLP	Mt. Juliet, TI
Wet Chemistry by Method 9056A	WG1888425	1	07/02/22 18:54	07/02/22 18:54	LBR	Mt. Juliet, T
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:14	CCE	Mt. Juliet, T
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 15:53	LD	Mt. Juliet, TI
RP-3 L1503624-15 GW			Collected by Danielle Braund	Collected date/time 06/06/22 17:35	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878565	1	06/13/22 13:20	06/13/22 14:24	MMF	Mt. Juliet, TI
Wet Chemistry by Method 9056A	WG1888423	1	07/01/22 12:47	07/01/22 12:47	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:17	CCE	Mt. Juliet, TI
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 15:56	LD	Mt. Juliet, TI
RP-4 L1503624-16 GW			Collected by Danielle Braund	Collected date/time 06/06/22 13:00	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878565	1	06/13/22 13:20	06/13/22 14:24	MMF	Mt. Juliet, Ti
Wet Chemistry by Method 9056A	WG1888423	1	07/01/22 13:02	07/01/22 13:02	LBR	Mt. Juliet, TI
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:20	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 15:59	LD	Mt. Juliet, TI
			Collected by	Collected date/time	Received da	te/time
RP-5 L1503624-17 GW			Danielle Braund	06/06/22 12:22	06/09/22 09	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878565	1	06/13/22 13:20	06/13/22 14:24	MMF	Mt. Juliet, TI
Wet Chemistry by Method 9056A	WG1888423	1	07/01/22 13:16	07/01/22 13:16	LBR	Mt. Juliet, TI
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:23	CCE	Mt. Juliet, TI
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 16:02	LD	Mt. Juliet, Ti
			Collected by	Collected date/time	Received da	
RP-6 L1503624-18 GW			Danielle Braund	06/06/22 13:27	06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878565	1	06/13/22 13:20	06/13/22 14:24	MMF	Mt. Juliet, Tl
Wet Chemistry by Method 9056A	WG1888423	1	07/01/22 13:31	07/01/22 13:31	LBR	Mt. Juliet, TI
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:25	CCE	Mt. Juliet, Tl
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 16:06	LD	Mt. Juliet, TN

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RP-7 L1503624-19 GW			Collected by Danielle Braund	Collected date/time 06/06/22 16:02	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878565	1	06/13/22 13:20	06/13/22 14:24	MMF	Mt. Juliet, TI
Wet Chemistry by Method 9056A	WG1888423	1	07/01/22 14:43	07/01/22 14:43	LBR	Mt. Juliet, Ti
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:34	CCE	Mt. Juliet, TI
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 16:09	LD	Mt. Juliet, Ti
RP-8 L1503624-20 GW			Collected by Danielle Braund	Collected date/time 06/06/22 14:58	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878565	1	06/13/22 13:20	06/13/22 14:24	MMF	Mt. Juliet, TI
Wet Chemistry by Method 9056A	WG1888423	1	07/01/22 14:57	07/01/22 14:57	LBR	Mt. Juliet, TI
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:36	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 16:12	LD	Mt. Juliet, TN
RP-9 L1503624-21 GW			Collected by Danielle Braund	Collected date/time 06/06/22 14:20	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878565	1	06/13/22 13:20	06/13/22 14:24	MMF	Mt. Juliet, TI
Wet Chemistry by Method 9056A	WG1888423	1	07/01/22 15:12	07/01/22 15:12	LBR	Mt. Juliet, TI
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:39	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1886539	1	06/28/22 10:09	06/28/22 13:42	SJM	Mt. Juliet, T
RP-10 L1503624-22 GW			Collected by Danielle Braund	Collected date/time 06/06/22 13:40	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878565	1	06/13/22 13:20	06/13/22 14:24	MMF	Mt. Juliet, TI
Wet Chemistry by Method 9056A	WG1888423	1	07/01/22 15:26	07/01/22 15:26	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:42	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:07	06/28/22 16:15	LD	Mt. Juliet, Ti
			Collected by	Collected date/time	Received da	
DUPLICATE 2 RP-9 L1503624-23 GW			Danielle Braund	06/06/22 14:20	06/09/22 09	0:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1878565	1	06/13/22 13:20	06/13/22 14:24	MMF	Mt. Juliet, Tl
Wet Chemistry by Method 9056A	WG1888423	1	07/01/22 15:41	07/01/22 15:41	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1882588	1	06/26/22 09:28	07/01/22 11:45	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 16:25	LD	Mt. Juliet, Tl
DUPLICATE 4 MW-6 L1503624-24 GW			Collected by Danielle Braund	Collected date/time 06/08/22 09:20	Received da 06/09/22 09	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1880039	1	06/15/22 18:14	06/15/22 18:54	SJF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1888429	1	07/02/22 05:57	07/02/22 05:57	ELN	Mt. Juliet, T
	WC1002E00	1	06/24/22 10:35	06/30/22 20:00	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B Metals (ICPMS) by Method 6020	WG1882589 WG1882558	1	06/26/22 11:02	06/28/22 16:29	LD	Mt. Juliet, TN

 ACCOUNT:
 PROJECT:
 SDG:
 DATE/TIME:

 GBMc & Associates - Bryant, AR
 1145-21-081
 L1503624
 07/11/22 15:52

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			Collected by	Collected date/time	Received da	
FIELD BLANK 2 L1503624-25 GW			Danielle Braund	06/08/22 12:05	06/09/22 09):00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1879782	1	06/15/22 15:02	06/15/22 15:42	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1889341	1	07/03/22 12:48	07/03/22 12:48	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1882589	1	06/24/22 10:35	06/30/22 20:03	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1882558	1	06/26/22 11:02	06/28/22 16:32	LD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
TRIP BLANK L1503624-26 GW			Danielle Braund	06/08/22 12:05	06/09/22 09):00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1880034	1	06/15/22 17:25	06/15/22 18:05	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1889341	1	07/03/22 13:00	07/03/22 13:00	LBR	Mt. Juliet, TN

³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

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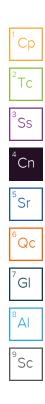
SDG: L1503624 DATE/TIME: 07/11/22 15:52

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.

h

Mark W. Beasley Project Manager



SDG: L1503624 DA 07/1 PAGE: 8 of 62 Collected date/time: 06/07/22 16:00

SAMPLE RESULTS - 01

	Result	Units					
Analyte							
pH (On Site)	7.03	SU					² T
Gravimetric Analy	rsis by Method 2	2540 C-20)11				3
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		4
Dissolved Solids	639		13.3	1	06/13/2022 17:17	WG1878757	
Wet Chemistry by	Method 9056	4					5
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		°C
Chloride	100		1.00	1	07/01/2022 13:48	WG1888329	
Fluoride	ND		0.150	1	07/01/2022 13:48	WG1888329	7
Sulfate	170		25.0	5	07/01/2022 14:33	WG1888329	
Metals (ICP) by M	ethod 6010B						⁸ /
	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time		<u></u>
Boron	ND		0.200		07/01/2022 03:10	WG1882587	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	85.9		1.00	1	06/28/2022 01:01	WG1882557

MW-2 Collected date/time: 06/07/22 1	0:25		SAMPLE	E RES	SULTS - 02	
Additional Information - I	Results for	field anal	yses are no	ot accr	edited to ISO 170	25
	Result	Units				
Analyte						
pH (On Site)	7.83	su				
Gravimetric Analysis by I	Method 25	40 C-201	1			
	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Dissolved Solids	767		13.3	1	06/13/2022 17:17	WG1878757
Wet Chemistry by Metho	od 9056A					
	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Chloride	16.5		1.00	1	07/01/2022 14:48	WG1888329
Fluoride	0.169		0.150	1	07/01/2022 14:48	WG1888329
Sulfate	284	E	5.00	1	07/01/2022 14:48	<u>WG1888329</u>
Metals (ICP) by Method 6	6010B					

	Result	Qualifier	RDL	Dilution	Analysis	Batch	9	1
Analyte	mg/l		mg/l		date / time		Sc	l
Boron	ND		0.200	1	07/01/2022 03:12	WG1882587		l

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	127		1.00	1	06/28/2022 01:11	WG1882557

SDG: L1503624 Ср

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MW-3 Collected date/time: C	06/08/22 10:40		SAME		SULIS - 03 624	3	
Additional Inform	ation - Results f	or field and	alyses ar	e not accr	edited to ISO 1	7025	1
	Result	Units					Ср
Analyte							2
pH (On Site)	7.51	su					Ť٢
Gravimetric Analy	ysis by Method 2	2540 C-20	011				³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		⁴ Cn
Dissolved Solids	483		10.0	1	06/15/2022 15:42	WG1879782	
Wet Chemistry by	y Method 9056	4					⁵ Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		Qc
Chloride	39.2		1.00	1	07/01/2022 15:18	WG1888329	
Fluoride	0.182		0.150	1	07/01/2022 15:18	WG1888329	⁷ Gl
Sulfate	93.9		5.00	1	07/01/2022 15:18	WG1888329	
Metals (ICP) by M	lethod 6010B						⁸ Al
	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time		⁹ Sc

Metals (ICPMS) by Method 6020

0.275

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	62.7		1.00	1	06/28/2022 01:14	WG1882557

1

07/01/2022 03:15

0.200

WG1882587

Boron

SAMPLE RESULTS - 04

IVI VV - O Collected date/time: O	06/08/22 09:20		SAMP	LE RE.	50LIS - 04 624	+	
Additional Inform	ation - Results fo	or field and	alyses are	e not accr	edited to ISO 1	7025	1
	Result	Units					Ср
Analyte							2
pH (On Site)	7.09	su					Ťc
Gravimetric Analy	ysis by Method 2	2540 C-20)11				³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		4 Cn
Dissolved Solids	388		10.0	1	06/15/2022 15:42	WG1879782	
Wet Chemistry by	y Method 90564	Ą					⁵Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		ိုင္ရင
Chloride	30.0		1.00	1	07/01/2022 15:33	<u>WG1888329</u>	
Fluoride	ND		0.150	1	07/01/2022 15:33	<u>WG1888329</u>	⁷ Gl
Sulfate	105	Ē	5.00	1	07/01/2022 15:33	WG1888329	
Metals (ICP) by M	lethod 6010B						⁸ Al
	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time		Sc
Boron	ND		0.200	1	07/01/2022 10:34	WG1882588	

Metals (ICPMS) by Method 6020

ND

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	61.9		1.00	1	06/28/2022 01:17	WG1882557

1

07/01/2022 10:34

WG1882588

0.200

MW-7

Collected date/time: 06/07/22 15:10

SAMPLE RESULTS - 05

				2.000		
Additional Information -	Results for	field ana	lyses are n	iot accr	edited to ISO 17	025
	Result	Units				
Analyte						
pH (On Site)	8.33	su				
Gravimetric Analysis by	Method 25	540 C-20 [°]	11			
	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Dissolved Solids	510		10.0	1	06/13/2022 17:17	<u>WG1878757</u>

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		ိုင္ရင
Chloride	29.8		1.00	1	07/01/2022 15:48	<u>WG1888329</u>	
Fluoride	0.666		0.150	1	07/01/2022 15:48	WG1888329	⁷ Gl
Sulfate	51.3		5.00	1	07/01/2022 15:48	WG1888329	O

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		[°] Sc
Boron	ND		0.200	1	07/01/2022 10:44	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	47.5		1.00	1	06/28/2022 01:21	WG1882557

SDG: L1503624 Ср

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IVI VV - 8 Collected date/time: 0	06/08/22 13:50		SAME	LE RE	50LIS - 00 624	0	
Additional Inform	ation - Results fo	or field and	alyses ar	e not accr	edited to ISO 1	7025	1
	Result	Units					Ср
Analyte							2
pH (On Site)	8.33	SU					² Tc
Gravimetric Analy	vsis by Method 2	2540 C-20)11				³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		⁴ Cn
Dissolved Solids	839		13.3	1	06/15/2022 15:42	WG1879782	
Wet Chemistry by	y Method 90564	4					⁵Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		⁶ Qc
Chloride	141		5.00	5	07/01/2022 16:28	WG1888329	
Fluoride	0.160		0.150	1	07/01/2022 16:03	WG1888329	⁷ Gl
Sulfate	268		25.0	5	07/01/2022 16:28	WG1888329	
Metals (ICP) by M	ethod 6010B						⁸ Al
	Result	Qualifier	RDL	Dilution	Analysis	Batch	۵
Analyte	mg/l		mg/l		date / time		⁹ Sc

Metals (ICPMS) by Method 6020

ND

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	115		1.00	1	06/28/2022 01:24	WG1882557

1

07/01/2022 10:47

WG1882588

0.200

MW-9

Collected date/time: 06/08/22 13:12

SAMPLE RESULTS - 07

Additional Inform	mation - Results to	r field analyses a	re not accredited to IS	501/025	
	Result	Units			
Analyte					
pH (On Site)	7.31	su			
Gravimetric Ana	alysis by Method 2	540 C-2011			
	Posult	Qualifier PDI	Dilution Analysis	Batch	

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		4 Cn
Dissolved Solids	789		13.3	1	06/15/2022 18:54	WG1880039	СП
							⁵ C.

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		ČQC
Chloride	52.5		1.00	1	07/02/2022 05:17	WG1888429	
Fluoride	ND		0.150	1	07/02/2022 05:17	WG1888429	⁷ Gl
Sulfate	311	E	5.00	1	07/02/2022 05:17	WG1888429	Or I

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Q
Analyte	mg/l		mg/l		date / time		Sc
Boron	0.593		0.200	1	07/01/2022 10:50	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	102		1.00	1	06/28/2022 15:12	WG1882558

SDG: L1503624 DATE/TIME: 07/11/22 15:52

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Collected date/time: 06/08/22 12:00

SAMPLE RESULTS - 08 L1503624

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

Additional Inform	ation - Results f	or field and	alyses are	e not accr	redited to ISO 1.	/025	
	Result	Units					
Analyte							
pH (On Site)	7.52	SU					
Gravimetric Analy	vsis by Method 2	2540 C-20)11				
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Dissolved Solids	604		13.3	1	06/15/2022 18:54	WG1880039	
Wet Chemistry by	Method 9056	Д					
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Chloride	47.5		1.00	1	07/02/2022 05:30	WG1888429	
Fluoride	0.186		0.150	1	07/02/2022 05:30	<u>WG1888429</u>	
Sulfate	178		5.00	1	07/02/2022 05:30	WG1888429	
Metals (ICP) by M	ethod 6010B						
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Boron			0.200		07/01/2022 10:52	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	81.2		1.00	1	06/28/2022 15:26	WG1882558

Boron

MW-11 Collected date/time: 06	5/07/22 18:00		SAMF	PLE RES	SULTS - 0 624	9	
Additional Informa	ation - Results fo	or field and	alyses ar	e not accr	edited to ISO 1	7025	1
	Result	Units					Ср
Analyte							2
pH (On Site)	7.73	su					Tc
Gravimetric Analy	sis by Method 2	2540 C-20)11				³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		4 Cn
Dissolved Solids	360		10.0	1	06/13/2022 17:17	WG1878757	
Wet Chemistry by	Method 90564	Ą					⁵Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		ိုင္ရင
Chloride	39.7		1.00	1	07/02/2022 18:11	WG1888425	
Fluoride	0.217		0.150	1	07/02/2022 18:11	WG1888425	⁷ Gl
Sulfate	35.3		5.00	1	07/02/2022 18:11	WG1888425	
Metals (ICP) by Me	ethod 6010B						⁸ Al
	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time		Sc

Metals (ICPMS) by Method 6020

ND

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	62.0		1.00	1	06/28/2022 15:30	WG1882558

1

07/01/2022 11:01

WG1882588

0.200

Collected date/time: 06/08/22 14:33

SAMPLE RESULTS - 10

	0,00,2200			2.000			
Additional Information	ation - Results f	or field and	alyses are	e <mark>not ac</mark> cr	edited to ISO 1	7025	
	Result	Units					
Analyte							2
pH (On Site)	7.64	SU					Tc
Gravimetric Analy	vsis by Method 2	2540 C-20)11				³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		4 Cn
Dissolved Solids	397		10.0	1	06/15/2022 18:54	WG1880039	
Wet Chemistry by	Method 9056	4					⁵ Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		ို့ထူး
Chloride	20.4		1.00	1	07/02/2022 05:44	<u>WG1888429</u>	
Fluoride	0.166		0.150	1	07/02/2022 05:44	<u>WG1888429</u>	⁷ Gl
Sulfate	72.7		5.00	1	07/02/2022 05:44	WG1888429	01
Metals (ICP) by M	ethod 6010B						اA ⁸
	Result	Qualifier	RDL	Dilution	Analysis	Batch	0
Analyte	mg/l		mg/l		date / time	_	Sc
Boron	ND		0.200	1	07/01/2022 11:03	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	72.9		1.00	1	06/28/2022 15:33	WG1882558

Collected date/time: 06/07/22 08:27

SAMPLE RESULTS - 11

	Result	Units					
Analyte							L
pH (On Site)	6.97	SU					
Gravimetric Analy	vsis by Method 2	2540 C-20)11				
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Dissolved Solids	209		10.0	1	06/13/2022 17:17	WG1878757	
Wet Chemistry by	/ Method 9056/	4					
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte			RDL mg/l	Dilution	Analysis date / time	Batch	
-	Result			Dilution 1		Batch WG1888425	[
Chloride	Result mg/l		mg/l	Dilution 1 1	date / time		[
Chloride Fluoride	Result mg/l 5.48		mg/l 1.00	Dilution 1 1 1	date / time 07/02/2022 18:25	WG1888425	[
Chloride Fluoride Sulfate	Result mg/l 5.48 ND 18.4		mg/l 1.00 0.150	Dilution 1 1 1	date / time 07/02/2022 18:25 07/02/2022 18:25	WG1888425 WG1888425	[
Chloride Fluoride Sulfate	Result mg/l 5.48 ND 18.4		mg/l 1.00 0.150	Dilution 1 1 1 Dilution	date / time 07/02/2022 18:25 07/02/2022 18:25	WG1888425 WG1888425	[[
Analyte Chloride Fluoride Sulfate Metals (ICP) by M Analyte	Result mg/l 5.48 ND 18.4 ethod 6010B	Qualifier	mg/l 1.00 0.150 5.00	1 1 1	date / time 07/02/2022 18:25 07/02/2022 18:25 07/02/2022 18:25	WG1888425 WG1888425 WG1888425	[

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	41.6		1.00	1	06/28/2022 15:36	WG1882558

SDG: L1503624 DATE/TIME: 07/11/22 15:52

Collected date/time: 06/07/22 09:10

SAMPLE RESULTS - 12

	Result	Units					C
Analyte							
pH (On Site)	7.25	su					
Gravimetric Analy	vsis by Method 2	2540 C-20)11				³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		4 C
Dissolved Solids	260		10.0	1	06/13/2022 17:17	WG1878757	
Wet Chemistry by	/ Method 9056/	Д					⁵ Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		ů Q
Chloride	5.12		1.00	1	07/02/2022 18:40	WG1888425	
Fluoride	ND		0.150	1	07/02/2022 18:40	WG1888425	⁷ G
Sulfate	29.7		5.00	1	07/02/2022 18:40	WG1888425	0
Metals (ICP) by M	ethod 6010B						⁸ Al
	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time		Š
Boron	ND		0.200	1	07/01/2022 11:09	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	57.3		1.00	1	06/28/2022 15:46	WG1882558

SDG: L1503624 DATE/TIME: 07/11/22 15:52

Collected date/time: 06/06/22 18:12

SAMPLE RESULTS - 13

	Result	Units					C
Analyte							
pH (On Site)	7.11	SU					² T(
Gravimetric Analy	/sis by Method 2	2540 C-20)11				³ S
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		4 C
Dissolved Solids	204		10.0	1	06/13/2022 14:24	WG1878565	
Wet Chemistry by	/ Method 9056/	Д					⁵ Si
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		ů Q
Chloride	7.62		1.00	1	07/01/2022 12:19	WG1888423	
Fluoride	ND		0.150	1	07/01/2022 12:19	WG1888423	⁷ G
Sulfate	14.8		5.00	1	07/01/2022 12:19	WG1888423	
Metals (ICP) by M	ethod 6010B						⁸ A
	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time		[°] Se
Boron	ND		0.200	1	07/01/2022 11:12	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	46.1		1.00	1	06/28/2022 15:49	WG1882558

Collected date/time: 06/07/22 08:27

SAMPLE RESULTS - 14

	Result	Units					C
Analyte							2
pH (On Site)	6.97	SU					ĹΤ
Gravimetric Analy	vsis by Method 2	2540 C-20)11				³ S
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		4 C
Dissolved Solids	207		10.0	1	06/14/2022 13:06	WG1879064	
Wet Chemistry by	Method 9056	4					⁵ S
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		٦Ğ
Chloride	5.69		1.00	1	07/02/2022 18:54	WG1888425	
Fluoride	ND		0.150	1	07/02/2022 18:54	WG1888425	⁷ G
Sulfate	18.2		5.00	1	07/02/2022 18:54	WG1888425	
Metals (ICP) by M	ethod 6010B						⁸ A
	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time		r
			0.200		07/01/2022 11:14	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	43.9		1.00	1	06/28/2022 15:53	WG1882558

SDG: L1503624 DATE/TIME: 07/11/22 15:52 Collected date/time: 06/06/22 17:35

SAMPLE RESULTS - 15

	Result	Units					
Analyte							L L
pH (On Site)	7.08	su					
Gravimetric Analy	vsis by Method 2	2540 C-20)11				
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Dissolved Solids	173		10.0	1	06/13/2022 14:24	WG1878565	
Wet Chemistry by	Method 9056	4					
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Chloride	4.91		1.00	1	07/01/2022 12:47	WG1888423	
Fluoride	ND		0.150	1	07/01/2022 12:47	WG1888423	
Sulfate	8.70		5.00	1	07/01/2022 12:47	WG1888423	
Metals (ICP) by M	ethod 6010B						
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	43.5		1.00	1	06/28/2022 15:56	WG1882558

SDG: L1503624 DATE/TIME: 07/11/22 15:52

Collected date/time: 06/06/22 13:00

SAMPLE RESULTS - 16

	Result	Units					Cp
Analyte							2
pH (On Site)	6.91	SU					۲c
Gravimetric Analy	vsis by Method 2	2540 C-20)11				³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		4Cn
Dissolved Solids	291		10.0	1	06/13/2022 14:24	WG1878565	
Wet Chemistry by	/ Method 9056/	4					⁵Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		ို့လူလ
Chloride	7.58		1.00	1	07/01/2022 13:02	WG1888423	
Fluoride	0.213		0.150	1	07/01/2022 13:02	WG1888423	⁷ Gl
Sulfate	80.1		5.00	1	07/01/2022 13:02	WG1888423	01
Metals (ICP) by M	ethod 6010B						⁸ Al
	Result	Qualifier	RDL	Dilution	Analysis	Batch	Q
Analyte	mg/l		mg/l		date / time		⁹ Sc
	0.270		0.200		07/01/2022 11:20	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	58.3		1.00	1	06/28/2022 15:59	WG1882558

SDG: L1503624 DATE/TIME: 07/11/22 15:52

Collected date/time: 06/06/22 12:22

SAMPLE RESULTS - 17

	Result	Units					(
Analyte							2
pH (On Site)	7.08	SU					<u> </u>
Gravimetric Analy	sis by Method	2540 C-20)11				3
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		4
Dissolved Solids	533		10.0	1	06/13/2022 14:24	WG1878565	
Wet Chemistry by	Method 9056	Д					5
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		Ŭ,
Chloride	12.2		1.00	1	07/01/2022 13:16	WG1888423	
Fluoride	0.419		0.150	1	07/01/2022 13:16	WG1888423	7
Sulfate	284	Ē	5.00	1	07/01/2022 13:16	WG1888423	
Metals (ICP) by M	ethod 6010B						8 /
	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time		
Boron	1.23		0.200		07/01/2022 11:23	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	70.7		1.00	1	06/28/2022 16:02	WG1882558

SDG: L1503624 DATE/TIME: 07/11/22 15:52 Collected date/time: 06/06/22 13:27

SAMPLE RESULTS - 18

Collected date/time: 0	6/06/22 13:27			L1503	624		
Additional Inform	ation - Results f	or field and	alyses are	e not accr	edited to ISO 1	7025	1
	Result	Units					Ср
Analyte							2
pH (On Site)	7.72	SU					Тс
Gravimetric Analy	ysis by Method	2540 C-20	011				³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		⁴ Cn
Dissolved Solids	645		10.0	1	06/13/2022 14:24	WG1878565	CI
Wet Chemistry by	y Method 9056	Д					⁵Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		ଁ
Chloride	12.1		1.00	1	07/01/2022 13:31	WG1888423	
Fluoride	0.389		0.150	1	07/01/2022 13:31	WG1888423	⁷ Gl
Sulfate	269	E	5.00	1	07/01/2022 13:31	WG1888423	
Metals (ICP) by M	ethod 6010B						⁸ Al
	Result	Qualifier	RDL	Dilution	Analysis	Batch	٥
Analyte	mg/l		mg/l		date / time		Sc
Boron	0.264		0.200	1	07/01/2022 11:25	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	105		1.00	1	06/28/2022 16:06	WG1882558

SDG: L1503624 DATE/TIME: 07/11/22 15:52

Collected date/time: 06/06/22 16:02

SAMPLE RESULTS - 19

	Result	Units					(
Analyte							2
pH (On Site)	7.23	SU					T
Gravimetric Analy	sis by Method	2540 C-20)11				³ S
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		⁴ C
Dissolved Solids	275		10.0	1	06/13/2022 14:24	WG1878565	
Wet Chemistry by	/ Method 9056/	Д					55
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		°C
Chloride	7.16		1.00	1	07/01/2022 14:43	WG1888423	
Fluoride	0.153		0.150	1	07/01/2022 14:43	<u>WG1888423</u>	7
Sulfate	57.7		5.00	1	07/01/2022 14:43	WG1888423	
Metals (ICP) by M	ethod 6010B						8
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analita	mg/l		mg/l		date / time		ľS
Analyte	nig/i		ilig/i		dute / time		

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	56.8		1.00	1	06/28/2022 16:09	WG1882558

Collected date/time: 06/06/22 14:58

SAMPLE RESULTS - 20 L1503624

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

Additional Inform							(
	Result	Units					
Analyte							2
pH (On Site)	7	SU					
Gravimetric Analy	ysis by Method 2	2540 C-20)11				3
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		4
Dissolved Solids	362		10.0	1	06/13/2022 14:24	WG1878565	
Wet Chemistry by	y Method 90564	4					5
Wet Chemistry by	y Method 9056A Result	م Qualifier	RDL	Dilution	Analysis	Batch	
	-		RDL mg/l	Dilution	Analysis date / time	Batch	5 6 (
Analyte	Result			Dilution 1	-	Batch WG1888423	
Analyte Chloride	Result mg/l		mg/l	Dilution 1 1	date / time		6(
Analyte Chloride Fluoride	Result mg/l 9.27		mg/l 1.00	Dilution 1 1 1	date / time 07/01/2022 14:57	WG1888423	
Met Chemistry by Analyte Chloride Fluoride Sulfate Metals (ICP) by M	Result mg/l 9.27 ND 54.9		mg/l 1.00 0.150	Dilution 1 1 1	date / time 07/01/2022 14:57 07/01/2022 14:57	WG1888423 WG1888423	6(
Analyte Chloride Fluoride Sulfate	Result mg/l 9.27 ND 54.9		mg/l 1.00 0.150	Dilution 1 1 1 Dilution	date / time 07/01/2022 14:57 07/01/2022 14:57	WG1888423 WG1888423	6 (7 (8 /
Analyte Chloride Fluoride Sulfate	Result mg/l 9.27 ND 54.9	Qualifier	mg/l 1.00 0.150 5.00	1 1 1	date / time 07/01/2022 14:57 07/01/2022 14:57 07/01/2022 14:57	WG1888423 WG1888423 WG1888423	6 (7 (8

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	67.4		1.00	1	06/28/2022 16:12	WG1882558

RP-9 Collected date/time: 0	collected date/time: 06/06/22 14:20				SULIS - 2 624	I	
Additional Inform	ation - Results fo	or field and	alyses are	e <mark>not</mark> accr	edited to ISO 1	7025	1
	Result	Units					Ср
Analyte							2
pH (On Site)	7	SU					Tc
Gravimetric Analy	sis by Method 2	2540 C-20)11				³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Dissolved Solids	200		10.0	1	06/13/2022 14:24	WG1878565	
Wet Chemistry by	/ Method 90564	4					⁵ Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		ို့လူင
Chloride	6.14		1.00	1	07/01/2022 15:12	WG1888423	
Fluoride	ND		0.150	1	07/01/2022 15:12	WG1888423	⁷ Gl
Sulfate	13.6		5.00	1	07/01/2022 15:12	WG1888423	
Metals (ICP) by M	ethod 6010B						⁸ Al
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		[°] Sc
Boron	ND		0.200	1	07/01/2022 11:39	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	47.2		1.00	1	06/28/2022 13:42	WG1886539

SAMPLE RESULTS - 22

Collected date/time: 0	collected date/time: 06/06/22 13:40			LL RL. L1503	624 624	Z	
Additional Informa	ation - Results fo	or field and	alyses are	e not accr	edited to ISO 1	7025	1
	Result	Units					 - Ср
Analyte							2
pH (On Site)	7.44	SU					Tc
Gravimetric Analy	sis by Method 2	2540 C-20)11				³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		⁴ Cn
Dissolved Solids	400		10.0	1	06/13/2022 14:24	WG1878565	CIT
Wet Chemistry by	Method 90564	4					⁵ Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		ČQc
Chloride	9.29		1.00	1	07/01/2022 15:26	WG1888423	
Fluoride	ND		0.150	1	07/01/2022 15:26	WG1888423	⁷ Gl
Sulfate	97.9		5.00	1	07/01/2022 15:26	WG1888423	
Metals (ICP) by Me	ethod 6010B						 ⁸ Al
	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time		Sc
Boron	0.442		0.200	1	07/01/2022 11:42	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	72.9		1.00	1	06/28/2022 16:15	WG1882558

DUPLICATE 2 RP-9

SAMPLE RESULTS - 23

	ollected date/time: 06/06/22 14:20			L1503	624 C	0	
Additional Inform	ation - Results fo	or field and	alyses are	e not accr	edited to ISO 1	7025	1
	Result	Units					 Ср
Analyte							2
pH (On Site)	7.08	SU					⁻Tc
Gravimetric Analy	vsis by Method 2	2540 C-20)11				³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		⁴ Cn
Dissolved Solids	201		10.0	1	06/13/2022 14:24	WG1878565	
Wet Chemistry by	y Method 90564	Ą					⁵Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		 [°] Qc
Chloride	6.25		1.00	1	07/01/2022 15:41	WG1888423	
Fluoride	ND		0.150	1	07/01/2022 15:41	WG1888423	⁷ Gl
Sulfate	13.6		5.00	1	07/01/2022 15:41	WG1888423	
Metals (ICP) by M	ethod 6010B						⁸ Al
	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time		 Sc
Boron	ND		0.200	1	07/01/2022 11:45	WG1882588	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	47.2		1.00	1	06/28/2022 16:25	WG1882558

DUPLICATE 4 MW-6 Collected date/time: 06/08/22 09:20 SAMPLE RESULTS - 24

	Result	Units					
Analyte							
pH (On Site)	7.09	SU					
Gravimetric Analy	vsis by Method 2	2540 C-20	11				
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Dissolved Solids	393		10.0	1	06/15/2022 18:54	WG1880039	
Wet Chemistry by	/ Method 9056	4					
Wet Chemistry by	/ Method 9056A Result	م Qualifier	RDL	Dilution	Analysis	Batch	
			RDL mg/l	Dilution	Analysis date / time	Batch	
Wet Chemistry by Analyte Chloride	Result			Dilution 1		Batch WG1888429	
Analyte	Result mg/l		mg/l		date / time		
Analyte Chloride	Result mg/l 29.1		mg/l 1.00	1	date / time 07/02/2022 05:57	WG1888429	
Analyte Chloride Fluoride	Result mg/l 29.1 ND 103		mg/l 1.00 0.150	1	date / time 07/02/2022 05:57 07/02/2022 05:57	WG1888429 WG1888429	
Analyte Chloride Fluoride Sulfate	Result mg/l 29.1 ND 103		mg/l 1.00 0.150	1	date / time 07/02/2022 05:57 07/02/2022 05:57	WG1888429 WG1888429	
Analyte Chloride Fluoride Sulfate	Result mg/l 29.1 ND 103 ethod 6010B	Qualifier	mg/l 1.00 0.150 5.00	1 1 1	date / time 07/02/2022 05:57 07/02/2022 05:57 07/02/2022 05:57	WG1888429 WG1888429 WG1888429	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Calcium	61.6		1.00	1	06/28/2022 16:29	WG1882558

SDG: L1503624 DATE/TIME: 07/11/22 15:52

SAMPLE RESULTS - 25 L1503624

Gravimetric Analysis by Method 2540 C-2011

Gravimetric Analysis by Method 2540 C-2011									
	Result	Qualifier	RDL	Dilution	Analysis	Batch		Ср	
Analyte	mg/l		mg/l		date / time			2	
Dissolved Solids	ND		10.0	1	06/15/2022 15:42	WG1879782		Tc	

Wet Chemistry by Method 9056A

Wet Chemistry by	y Method 90564	4					³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		⁴ Cn
Chloride	ND		1.00	1	07/03/2022 12:48	WG1889341	
Fluoride	ND		0.150	1	07/03/2022 12:48	WG1889341	5
Sulfate	ND		5.00	1	07/03/2022 12:48	WG1889341	Sr

Metals (ICP) by Method 6010B

Metals (ICP) by M	ethod 6010B						⁶ Qc	
	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	mg/l		mg/l		date / time		⁷ GI	٦
Boron	ND		0.200	1	06/30/2022 20:03	WG1882589	G	

Metals (ICPMS) by Method 6020

	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time		Sc
Calcium	ND		1.00	1	06/28/2022 16:32	WG1882558	

Å

SAMPLE RESULTS - 26 L1503624

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch	- Cp
Analyte	mg/l		mg/l		date / time		2
Dissolved Solids	ND		10.0	1	06/15/2022 18:05	WG1880034	Tc

Wet Chemistry by Method 9056A

Wet Chemistry by N	Nethod 9056	4					³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		⁴ Cn
Chloride	ND		1.00	1	07/03/2022 13:00	WG1889341	СП
Fluoride	ND		0.150	1	07/03/2022 13:00	WG1889341	5
Sulfate	ND		5.00	1	07/03/2022 13:00	WG1889341	Sr

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY

L1503624-13,15,16,17,18,19,20,21,22,23

Method Blank (MB)

Method Blank (1			
(MB) R3803508-1 06/13/22 14:24									
	MB Result	MB Qualifier	MB MDL	MB RDL		2			
Analyte	mg/l		mg/l	mg/l		-			
Dissolved Solids	U		10.0	10.0					
						3			

L1501792-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1501792-03 06/13	/22 14:24 • (DU	P) R3803508-3	06/13/22	14:24		
	Original Resu	It DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1630	1710	1	4.50		5

L1502376-02 Original Sample (OS) • Duplicate (DUP)

L1502376-02 O	riginal Sample	e (OS) • Du	plicate	(DUP)		
(OS) L1502376-02 06	6/13/22 14:24 • (DUP) R3803508-4	4 06/13/22	2 14:24		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1690	1770	1	4.34		5

Laboratory Control Sample (LCS)

(LCS) R3803508-2 0	6/13/22 14:24				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	2440	2530	104	81.5-118	

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY

L1503624-01,02,05,09,11,12

Method Blank (MB)

/22 17:17				
MB Result	MB Qualifier	MB MDL	1B RDL	
mg/l		mg/l	ng/l	
U		10.0	D.0	
/	MB Result	MB Result MB Qualifier	MB Result <u>MB Qualifier</u> MB MDL M mg/l mg/l n	MB Result MB Qualifier MB MDL MB RDL mg/l mg/l mg/l

L1502144-01 Original Sample (OS) • Duplicate (DUP)

L1502144-01 Or	iginal Sample	(OS) • Dup	olicate (I	DUP)			
(OS) L1502144-01 06	/13/22 17:17 • (DUP) F	R3803516-3 (06/13/22 17	7:17			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD imits	
Analyte	mg/l	mg/l		%		6	
Dissolved Solids	513	533	1	3.82		5	

L1502241-01 Original Sample (OS) • Duplicate (DUP)

L1502241-01 Orig	jinal Sample	(OS) • Dup	ارlicate (ا	DUP)			⁷ Gl
(OS) L1502241-01 06/13	3/22 17:17 • (DUP)	R3803516-4 (J6/13/22 1	7:17			
	Original Result	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al
Analyte	mg/l	mg/l		%		%	
Dissolved Solids	588	605	1	2.90		5	°Sc

Laboratory Control Sample (LCS)

(LCS) R3803516-2 06	6/13/22 17:17				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	2440	2560	105	81.5-118	

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3804220-1 06/1	4/22 13:06			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1502184-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1502184-03 06/14/2	22 13:06 • (DUP)) R3804220-3	06/14/22	13:06		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1100	1150	1	4.67		5

L1502292-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1502292-02 06/14/	/22 13:06 • (DUF	9) R3804220-4	4 06/14/22	2 13:06		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	756	817	1	7.80	<u>J3</u>	5

Sample Narrative:

OS: Achieving a constant weight is not possible due to sample matrix

Laboratory Control Sample (LCS)

(LCS) R3804220-2 06/	14/22 13:06				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	2440	2430	99.6	81.5-118	

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1503624-03,04,06,25

Method Blank (MB)

(MB) R3805936-1 06/15/	/22 15:42			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1503326-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1503326-01 06/15/2	22 15:42 • (DUP)	R3805936-3	06/15/22	15:42		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1660	1730	1	4.13		5

L1503505-01 Original Sample (OS) • Duplicate (DUP)

L1503505-01 Or	riginal Sample	(OS) • Du	plicate ((DUP)			7
(OS) L1503505-01 06	/15/22 15:42 • (DUF) R3805936-4	1 06/15/22	2 15:42			L
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	8
Analyte	mg/l	mg/l		%		%	
Dissolved Solids	1370	1470	1	6.77	<u>J3</u>	5	9 Ç

Laboratory Control Sample (LCS)

(LCS) R3805936-2 06	6/15/22 15:42				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	2440	2390	98.0	81.5-118	

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1503624-26

Method Blank (MB)

(MB) R3805602-1 06/1	15/22 18:05			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1502298-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1502298-02 06/	/15/22 18:05 • (DU	P) R3805602-	3 06/15/2	2 18:05		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	2390	2770	1	14.9	<u>J3</u>	5

L1502850-03 Original Sample (OS) • Duplicate (DUP)

L1502850-03 O	riginal Sample	e (OS) • Du	uplicate	(DUP)			⁷ Gl
(OS) L1502850-03 06	6/15/22 18:05 • (DUF	P) R3805602-	4 06/15/2	2 18:05			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ AI
Analyte	mg/l	mg/l		%		%	
Dissolved Solids	773	796	1	2.89		5	⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3805602-2 06	6/15/22 18:05				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	2440	2350	96.3	81.5-118	

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1503624-07,08,10,24

Method Blank (MB)

(MB) R3804645-1 06/15	/22 18:54			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1502860-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1502860-01 06/15/2	22 18:54 • (DUP)	R3804645-3	06/15/22	18:54		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1730	2090	1	19.1	<u>J3</u>	5

L1502920-02 Original Sample (OS) • Duplicate (DUP)

L1502920-02 O	riginal Sample	e (OS) • Du	uplicate	(DUP)				⁷ Gl
(OS) L1502920-02 06	6/15/22 18:54 • (DUF) R3804645-	4 06/15/22	2 18:54				
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		⁸ Al
Analyte	mg/l	mg/l		%		%		
Dissolved Solids	593	611	1	2.88		5		°Sc

Laboratory Control Sample (LCS)

(LCS) R3804645-2 06	6/15/22 18:54				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	2440	2380	97.5	81.5-118	

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1503624-01,02,03,04,05,06

Method Blank (MB)

(MB) R3810374-1	0//01/22	08:09

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(MB) R3810374-1 (07/01/22 08:09				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	T
Chloride	U		0.379	1.00	
Fluoride	U		0.0640	0.150	³ S
Sulfate	U		0.594	5.00	Ľ

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L1503316-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1503316-07 07/01/22 09:06 • (DUP) R3810374-3 07/01/22 09:20								
	Original Result	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		
Analyte	mg/l	mg/l		%		%		
Fluoride	ND	ND	1	0.000		15		

L1503624-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1503624-02 07/01/2	(OS) L1503624-02 07/01/22 14:48 • (DUP) R3810374-6 07/01/22 15:03										
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits					
Analyte	mg/l	mg/l		%		%					
Chloride	16.5	16.5	1	0.0583		15					
Fluoride	0.169	0.173	1	2.69		15					
Sulfate	284	283	1	0.0122	E	15					

Laboratory Control Sample (LCS)

(LCS) R3810374-2 07/01/22 08:24								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	mg/l	mg/l	%	%				
Chloride	40.0	40.3	101	80.0-120				
Fluoride	8.00	8.22	103	80.0-120				
Sulfate	40.0	40.0	99.9	80.0-120				

L1503594-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1503594-02	07/01/22 10:49 • (MS)	R3810374-4 0	7/01/22 11:34	• (MSD) R38103	74-5 07/01/2	22 11:49							
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Chloride	50.0	11.8	63.6	63.8	104	104	1	80.0-120			0.221	15	
Fluoride	5.00	ND	5.21	5.25	104	105	1	80.0-120			0.772	15	
Sulfate	50.0	ND	51.2	51.3	102	103	1	80.0-120			0.314	15	
	ACCOUNT:			PRC	DJECT:			SDG:		DATE	TIME:		PAGE:

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:
GBMc & Associates - Bryant, AR	1145-21-081	L1503624	07/11/22 15:52

WG1888329 Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1503624-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1503624-06 07	7/01/22 16:03 • (MS)	R3810374-7 0	7/01/22 16:43	:			
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	141	186	91.3	1	80.0-120	E
Fluoride	5.00	0.160	5.31	103	1	80.0-120	
Sulfate	50.0	269	283	28.5	1	80.0-120	EV

ACCOUNT:
GBMc & Associates - Bryant, AR

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1503624-13,15,16,17,18,19,20,21,22,23

Method Blank (MB)

(MB) R3811380-1	07/01/22 11:15

(MB) R3811380-1 0.	//01/22 11:15				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
Chloride	U		0.379	1.00	
Fluoride	U		0.0640	0.150	
Sulfate	U		0.594	5.00	

L1503624-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1503624-13	07/01/22 12:19	• (DUP) R3811380-3	07/01/22 12:33
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	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	7.62	7.57	1	0.665		15
Fluoride	ND	ND	1	0.760		15
Sulfate	14.8	14.8	1	0.279		15

L1503624-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1503624-23 07/01/22 15:41 • (DUP) R3811380-6 07/01/22 15:55							
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	
Analyte	mg/l	mg/l		%		%	
Chloride	6.25	6.11	1	2.39		15	
Fluoride	ND	ND	1	3.08		15	
Sulfate	13.6	13.6	1	0.194		15	

Laboratory Control Sample (LCS)

(LCS) R3811380-2 07/01/	22 11:29				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	40.9	102	80.0-120	
Fluoride	8.00	8.58	107	80.0-120	
Sulfate	40.0	42.0	105	80.0-120	

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY <u>11503624-13,15,16,17,18,19,20,21,22,23</u>

L1503624-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1503624-18 07/01/2	22 13:31 • (MS) F	3811380-4 07/	01/22 13:45 •	(MSD) R381138	0-5 07/01/22	14:00						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	12.1	65.7	64.7	107	105	1	80.0-120			1.48	15
Fluoride	5.00	0.389	5.61	5.52	104	103	1	80.0-120			1.67	15
Sulfate	50.0	269	317	320	95.7	102	1	80.0-120	E	E	0.938	15

L1503658-38 Original Sample (OS) • Matrix Spike (MS)

(OS) L1503658-38 07/01/	22 17:36 • (MS)	R3811380-7 07	7/01/22 17:51				
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	11.9	64.4	105	1	80.0-120	
Fluoride	5.00	0.382	5.48	102	1	80.0-120	
Sulfate	50.0	266	309	85.7	1	80.0-120	E

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1503624-09,11,12,14

Method Blank (MB)

(MB) R3811634-1	0//02/22 10:28	
	MB Result	MB Qualit

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

L1502176-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1502176-01 07/02/22 12:24 · (DUP) R3811634-3 07/02/22 12:38						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	6.37	6.38	1	0.232		15
Fluoride	0.315	0.313	1	0.732		15
Sulfate	17.1	17.0	1	0.258		15

L1502408-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1502408-01 07/02/22 16:15 • (DUP) R3811634-6 07/02/22 16:30												
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits						
Analyte	mg/l	mg/l		%		%						
Chloride	8.79	8.80	1	0.0671		15						
Fluoride	ND	ND	1	3.02		15						
Sulfate	5.06	5.04	1	0.533		15						

Laboratory Control Sample (LCS)

(LCS) R3811634-2 07/02/	CS) R3811634-2 07/02/22 10:43										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/l	mg/l	%	%							
Chloride	40.0	41.0	103	80.0-120							
Fluoride	8.00	8.48	106	80.0-120							
Sulfate	40.0	41.5	104	80.0-120							

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1502176-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1502176-01 07/02/2	(OS) L1502176-01 07/02/22 12:24 • (MS) R3811634-4 07/02/22 12:53 • (MSD) R3811634-5 07/02/22 13:07														
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits			
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%			
Chloride	50.0	6.37	58.7	58.9	105	105	1	80.0-120			0.455	15			
Fluoride	5.00	0.315	5.54	5.57	105	105	1	80.0-120			0.439	15			
Sulfate	50.0	17.1	70.5	70.8	107	107	1	80.0-120			0.446	15			

L1502408-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1502408-01 07/02/	'22 16:15 • (MS) I	R3811634-7 07	/02/22 16:44				
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	8.79	62.1	107	1	80.0-120	
Fluoride	5.00	ND	5.34	105	1	80.0-120	
Sulfate	50.0	5.06	59.2	108	1	80.0-120	

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1503624-07,08,10,24

Method Blank (MB)

Method Blank					
(MB) R3813110-1 0	7/01/22 23:42				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
Chloride	U		0.379	1.00	
Fluoride	U		0.0640	0.150	
Sulfate	U		0.594	5.00	

L1502374-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1502374-02 07/02/	S) L1502374-02 07/02/22 00:36 • (DUP) R3813110-3 07/02/22 00:49										
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits					
Analyte	mg/l	mg/l		%		%					
Chloride	57.1	58.4	1	2.25		15					
Fluoride	2.05	2.11	1	2.85		15					
Sulfate	90.3	92.8	1	2.78		15					

L1503523-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1503523-07 07/02/22 04:10 • (DUP) R3813110-6 07/02/22 04:23												
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	JP RPD nits						
Analyte	mg/l	mg/l		%								
Chloride	3.49	3.07	1	12.7								
Fluoride	ND	ND	1	0.000								
Sulfate	ND	ND	1	17.7	<u>P1</u>							

Laboratory Control Sample (LCS)

(LCS) R3813110-2 07/01/2	CS) R3813110-2 07/01/22 23:55										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/l	mg/l	%	%							
Chloride	40.0	40.0	100	80.0-120							
Fluoride	8.00	8.11	101	80.0-120							
Sulfate	40.0	41.4	103	80.0-120							

ACCOUNT:
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SDG: L1503624

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1503145-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1503145-02 07/02/	(OS) L1503145-02 07/02/22 02:23 • (MS) R3813110-4 07/02/22 02:36 • (MSD) R3813110-5 07/02/22 02:50														
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits			
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%			
Chloride	50.0	25.7	75.4	75.2	99.5	99.0	1	80.0-120			0.284	15			
Fluoride	5.00	ND	5.11	5.02	102	100	1	80.0-120			1.75	15			
Sulfate	50.0	132	178	182	91.3	100	1	80.0-120			2.44	15			

L1506380-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1506380-05 07/02	S) L1506380-05 07/02/22 06:11 • (MS) R3813110-7 07/02/22 06:24												
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier						
Analyte	mg/l	mg/l	mg/l	%		%							
Chloride	50.0	22.5	69.1	93.2	1	80.0-120							
Fluoride	5.00	ND	4.97	97.3	1	80.0-120							
Sulfate	50.0	ND	50.9	96.2	1	80.0-120							

SDG: L1503624 DATE/TIME: 07/11/22 15:52 PAGE: 48 of 62 ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1503624-25,26

Method Blank (MB)

(MB) R3811476-1 07/03/22 10:31	(MB)	R3811476-1	07/03/22 10:31
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Method Bidh	k (IVID)								
(MB) R3811476-1 07/03/22 10:31									
	MB Result	MB Qualifier	MB MDL	MB RDL					
Analyte	mg/l		mg/l	mg/l					
Chloride	U		0.379	1.00					
Fluoride	U		0.0640	0.150					
Sulfate	U		0.594	5.00					

L1503502-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1503502-09 07/03	3/22 11:33 • (DUF	P) R3811476-3	07/03/22	11:46		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	10.5	10.4	1	1.52		15
Fluoride	0.257	0.229	1	11.7		15
Sulfate	ND	ND	1	0.000		15

L1503640-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1503640-21 07/03/22 15:17 • (DUP) R3811476-6 07/03/22 15:30												
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits						
Analyte	mg/l	mg/l		%		%						
Chloride	66.9	66.5	10	0.645		15						
Fluoride	ND	ND	10	0.000		15						
Sulfate	729	732	10	0.314		15						

Laboratory Control Sample (LCS)

(LCS) R3811476-2 07/03/22 10:43												
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier							
Analyte	mg/l	mg/l	%	%								
Chloride	40.0	40.6	102	80.0-120								
Fluoride	8.00	8.34	104	80.0-120								
Sulfate	40.0	41.0	103	80.0-120								

ACCOUNT:
GBMc & Associates - Bryant, AR

PROJECT: 1145-21-081

SDG: L1503624

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1503502-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1503502-09 07/03/	(OS) L1503502-09 07/03/22 11:33 • (MS) R3811476-4 07/03/22 11:58 • (MSD) R3811476-5 07/03/22 12:11													
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits		
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%		
Chloride	50.0	10.5	61.3	61.8	101	103	1	80.0-120			0.886	15		
Fluoride	5.00	0.257	5.26	5.29	100	101	1	80.0-120			0.518	15		
Sulfate	50.0	ND	49.6	50.1	99.3	100	1	80.0-120			0.907	15		

L1503640-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1503640-21 07/03	/22 15:17 • (MS) F	R3811476-7 07/	/03/22 16:07 •	(MSD) R381147	6-8 07/03/22	16:20						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	66.9	114	114	95.1	94.2	10	80.0-120			0.369	15
Fluoride	5.00	ND	6.11	5.98	122	120	10	80.0-120	<u>J5</u>		2.08	15
Sulfate	50.0	729	730	728	0.977	0.000	10	80.0-120	$\underline{\vee}$	$\underline{\vee}$	0.222	15

DATE/TIME: 07/11/22 15:52

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3809786-1 0	7/01/22 02:00			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3809786-2 07/	LCS) R3809786-2 07/01/22 02:02										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/l	mg/l	%	%							
Boron	1.00	1.00	100	80.0-120							

L1503148-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1503148-05 07/01/2	(OS) L1503148-05 07/01/22 02:05 • (MS) R3809786-4 07/01/22 02:10 • (MSD) R3809786-5 07/01/22 02:13													
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits		
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%		
Boron	1.00	ND	1.15	1.17	103	105	1	75.0-125			2.19	20		

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Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY L1503624-04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23

Method Blank (MB)

Method Diai					
(MB) R3810113-1 (07/01/22 10:28				
	MB Result	MB Qualifier	MB MDL	IB RDL	2
Analyte	mg/l		mg/l	ng/l	T
Boron	U		0.0200	.200	
					³ Ss

Laboratory Control Sample (LCS)

(LCS) R3810113-2 07/01/2	LCS) R3810113-2 07/01/22 10:31											
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier							
Analyte	mg/l	mg/l	%	%								
Boron	1.00	0.973	97.3	80.0-120								

L1503624-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1503624-04 07/01/2	(OS) L1503624-04 07/01/22 10:34 • (MS) R3810113-4 07/01/22 10:39 • (MSD) R3810113-5 07/01/22 10:41														
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits			
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%			
Boron	1.00	ND	1.06	1.02	99.6	96.2	1	75.0-125			3.30	20			

SDG: L1503624 DATE/TIME: 07/11/22 15:52 Cn

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Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3809770-1 00	6/30/22 19:07			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Boron	U		0.0200	0.200

Laboratory Control Sample (LCS)

(LCS) R3809770-2 06/3	LCS) R3809770-2 06/30/22 19:09										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/l	mg/l	%	%							
Boron	1.00	1.01	101	80.0-120							

L1502373-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1502373-02 06/30	(OS) L1502373-02 06/30/22 19:12 • (MS) R3809770-4 06/30/22 19:17 • (MSD) R3809770-5 06/30/22 19:20														
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits			
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%			
Boron	1.00	2.62	3.50	3.49	87.3	86.1	1	75.0-125			0.350	20			

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Metals (ICPMS) by Method 6020

QUALITY CONTROL SUMMARY L1503624-01,02,03,04,05,06

Method Blank (MB)

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Laboratory Control Sample (LCS)

(LCS) R3808196-2 06/2	LCS) R3808196-2 06/27/22 23:54										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/l	mg/l	%	%							
Calcium	5.00	4.58	91.7	80.0-120							

L1503203-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1503203-01 06/27/2	(OS) L1503203-01 06/27/22 23:57 • (MS) R3808196-4 06/28/22 00:04 • (MSD) R3808196-5 06/28/22 00:07														
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits			
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%			
Calcium	5.00	34.2	39.0	38.7	95.5	89.9	1	75.0-125			0.720	20			

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Metals (ICPMS) by Method 6020

QUALITY CONTROL SUMMARY L1503624-07,08,09,10,11,12,13,14,15,16,17,18,19,20,22,23,24,25

Method Blank (MB)

(MB) R3808596-1 06/28/22 15:04	
MB Result MB Qualifier MB MDL MB RDL	
Analyte mg/l mg/l mg/l	
Calcium U 0.0936 1.00	

Laboratory Control Sample (LCS)

(LCS) R3808596-2 06	LCS) R3808596-2 06/28/22 15:08										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/l	mg/l	%	%							
Calcium	5.00	5.05	101	80.0-120							

L1503624-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1503624-07 06/2	(OS) L1503624-07 06/28/22 15:12 • (MS) R3808596-4 06/28/22 15:19 • (MSD) R3808596-5 06/28/22 15:22														
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits			
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%			
Calcium	5.00	102	106	105	89.3	79.5	1	75.0-125			0.462	20			

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Metals (ICPMS) by Method 6020

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3808377-1 06/2	28/22 13:07			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Calcium	U		0.0936	1.00

Laboratory Control Sample (LCS)

(LCS) R3808377-2 06/28/22 13:10							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/l	mg/l	%	%			
Calcium	5.00	4.88	97.5	80.0-120			

L1506071-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1506071-07 06/28/	′22 13:13 • (MS) R3808377	-4 06/28/22 13:2	0 • (MSD) R380	8377-5 06/2	8/22 13:23						
	Spike Amount Original F	esult MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%		%			%	%
Calcium	5.00	104	104	63.8	59.6	1	75.0-125	$\underline{\vee}$	$\underline{\vee}$	0.199	20

DATE/TIME: 07/11/22 15:52

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).
J3	The associated batch QC was outside the established quality control range for precision.
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.

SDG: L1503624 Τс

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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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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.

SDG: L1503624 DATE/TIME: 07/11/22 15:52

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Report to: Jonathan Brown			Email jbro		ncassoc.co	m;	ŧ		Pres					12065 Lebanon Rd Mount Juliet, TN 37 Phone: 615-758-58	58
Project Description: Entergy ISES			City/Sta Collecte	te ed: Newai	rk, AR	Please PT MT	CT ET		E-No					Phone: 800-767-58 Fax: 615-758-5859	
hone: 501-847-7077	Client Project			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	roject # MCBAR-EN	TERGYISES	5	NO3	50mIHDPE-NoPres					sbg#US	204
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nmediately acked on Ice N Y	Next D	Day	5 Day (Rad Oi 10 Day (Rad (Date Results	Needed	No. of	Ca 250	F, SO4,					PM: PB:	
Sample ID	Com	ip/Grab	Matrix*	Depth	Date	Time	Cntrs	B, 0	σ	100 mg		1923		Shipped Via: Remarks	Sample # (lab only)
MW-1R	Gra	b	GW	24.9	6/7/22	1600	2	×	X					7.03	-01
NW-2	Gra	b	GW	23.5	6/7/22	1025	2	×	X					7.83	-02
NW-3	Gra	b	GW	24.5	6/8/22	1040	2	×	×					7.51	-03
\W-6	Gra	b	GW	22.1	6/8/22	0920	2	×	×	1 4 4 4 A				7.09	-07
W-7	Gra	b	GW	22.1	6/7/22	1510	2	×	X					8.33	-05
\W-8	Gra	b	GW	23.1	6/8/22	1350	2	×	X			1.4		7.34	-do
\W-9	Gra	b	GW	21.9	6/8/22	1312	2	×	×					7.31	-07
W-10	Gra	b	GW	24.8	6/8/22	1200	2	×	X					7.52	-08
AW-11	Gra	b	GW	24.3	6/7/22	1800	2	X	×					7.73	-09
NW-13	Gra	ib i	GW	19.2	6/8/22	1433	2	×	X					7.64	-10
Matrix: 5 - Soil AIR - Air F - Filter W - Groundwater B - Bioassay W - WasteWater	Remarks: Final pH	in rema	ırks							pH	Temp Other		COC Seal COC Sign Bottles	ample Receipt C Present/Intact ned/Accurate: arrive intact: bottles used:	
W - Drinking Water T - Other	Samples ret	urned via: FedEx			Track	king #							Sufficie	o Headspace:	bleY
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teport to: Jonathan Brown		1.124.13		gbmcassoc.	.com:	. E		rei		14			12065 Lebanon Rd Mount Juliet, TN 3 Phone: 615-758-58	7122
Project Description: Entergy ISES		City	/State	wark, AR	Please PT MT	Cincle:		E-No					Phone: 800-767-58 Fax: 615-758-5859	359
hone: 501-847-7077	Client Project # 1145-21-081		1.	Lab Project # GBMCBAR-	ENTERGYISE	s	NO3	250mIHDPE-NoPres					SDG # L	5051029
Collected by (print):	Site/Facility ID #		P	P.O. #	3.6		H	50n					Acctnum:	
Danielle Braund	ISES			0	17.85		DP						Template:	
Collected by (signature):	Rush? (Lab Same Day Next Day Two Day Three Day	Five Day 5 Day (Ra		Quote # Date Res	ults Needed	No. of	Ca 250mIHDPE-HNO3	F, SO4, TDS					Prelogin: PM: PB: Shipped Via:	
Sample ID	Comp/Gra	b Matri	x* Dep	pth Dat	te Time	Cntrs	B, C	ΰ					, Remarks	Sample # (lab only)
MW-17	Grab	GW	19.3	6/7/2	0827	2	X	X				0	6.97	-11
MW-18	Grab	GW	21.2	6/7/	22 0910	2	×	X					7.25	-17_
₹P-1	Grab	GW	20.8	6/6/	22 1812	2	×	×		14- 11- 14- 14- 14- 14- 14- 14- 14- 14-			7.11	-13
RP-2	Grab	GW	19.3	6/7/	22 0827	2	×	X					6.97	-14
RP-3	Grab	GW	16.9	6/6/	22 1735	2	×	×		1912			7.08	-15
RP-4	Grab	GW	21.2	6/6/	22 1300	2	×	×					6.91	-16
RP-5	Grab	GW	24.6	6/6/	22 1222	2	×	X					7.08	-12
RP-6	Grab	GW	24.0	6/6/	22 1327	2	×	×					7.72	-18
RP-7	Grab	GW	23.8	6/6/	22 1602	2	×	×					7.23	-19
RP-8	Grab	GW	23.1	6/6/	22 1458	2	×	X		1. A. A.			7.00	-20
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other	Remarks: Final pH in r Samples returned UPS FedE	d via:			Fracking #				pH Flow	Ter		COC Sea COC Sig Bottles Correct Suffici	Sample Receipt (1 Present/Intact ned/Accurate: arrive intact: bottles used: ent volume sent <u>If Applica</u> o Headspace:	
Relinquished by : (Signature)		^{ate:} 69		me: 1300	Received by: (Sign	ature)			Trip Blan	k Received:	HCL/MeoH TBR	Preserv RAD Scr	ation Correct/C een <0.5 mR/hr:	N
Relinquished by : (Signature)	C	ate:	Tin	me: I	Received by: (Sign	ature)			Temp:	°C Bo	ottles Received:	If preserv	vation required by L	ogin: Date/Time
Relinquished by : (Signature)	C	ate:	Tin	me: I	Received for lab b	y: (Signa	ature)	_	Date:	TI	me: 400	Hold:		Condition: NCF / OK

	and the second second	Bill	ing Informat	ition:	a fair		Sec.	- 355	Analysis / C	ontainer / Pr	eservative	and the second	Chain of Custody	Page 3 of 3
GBMc & Associates - Bry 219 Brown Lane Bryant, AR 72022	yant, AR	21	ccounts F 19 Brown ryant, AR	n Ln.		Pres Chk							Pace	Analytical* Inter for Testing & Innovation
Report to: Jonathan Brown		jb	the state of the local data and the state of	bmcassoc.	com;	ŧ		Pres					12065 Lebanon Rd Mount Juliet, TN 37 Phone: 615-758-58 Phone: 800-767-58	8
Project Description: Entergy ISES		City/S Colle	state cted: Nev	wark, AR	Please PT MT	Circle:		E-No					Fax: 615-758-5859	
Phone: 501-847-7077	Client Project # 1145-21-081			ab Project # GBMCBAR-I	NTERGYISE	s	NO3	250mIHDPE-NoPres					SDG # UE	03624
Collected by (print): Danielle Braund	Site/Facility ID #		P. +	.0.#			DPE-H						Acctnum:	
Collected by (signature): DUULIAN Immediately Packed on Ice N Y _X	Rush? (Lab N Same Day Next Day Two Day Three Day	IUST Be Noti Five Day 5 Day (Rac 10 Day (Ra	i Only)	luote # Date Resi	ilts Needed	No. of	Ca 250mIHDPE-HNO3	F, SO4, TDS					Template: Prelogin: PM: PB:	
Sample ID	Comp/Gral	Matrix*	Dept	th Date	e Time	Cntrs	B, C	C, F					Shipped Via: Remarks	Sample # (lab only)
RP-9	Grab	GW	20.7	6/6/2	2 1420	2	×	X					7.08	-2
RP-10	Grab	GW	25.6	6/6/2	2 1340	2	×	X	-	1			7.44	-22
Duplicate 2 RP-9	Grab	GW	20.7	6/6/2	2 1420	2	×	X		in the		Carl	7.08	-23
Duplicate 4 MW-6	Grab	GW	22.1	6/8/2	2 0920	2	×	X					7.09	-24
Field Blank 2			di sana atau di sana atau	6/8/2	2 1205	2	×	×		and second			DI H2O	-25
		n katesi Refe			and the second s	2. 22.99		and and a						
													1 M	
								-						
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other	Remarks: Final pH in re Samples returned UPSFedEx	via:			acking #	I.v.			pH Flow	Ten Oth		COC Seal F COC Signed Bottles an Correct bo Sufficient	<pre>I/Accurate: crive intact: ottles used: volume sent: If Applical</pre>	
Relinquished by : (Signature)	0	nte: 0 9 7	Time		eceived by: (Sign	ature)			Trip Blank	Received:	HCL / MeoH TBR		<pre>leadspace: lon Correct/Ch 1 <0.5 mR/hr:</pre>	necked:
Relinquished by : (Signature)	Da	ite:	Time	e: R	eceived by: (Sign	ature)			Temp:	°С во	ttles Received:	If preservation	on required by Lo	ogin: Date/Time
Relinquished by : (Signature)	Da	ite:	Time	e: R	eceived for lab by	y: (Signa	ature	_	Date:		me: 900	Hold:		Condition: NCF / OK

Tracking 5719 6189 blLS 5719 6189 574 6189 7306 Numbers 5719 5719 6189 6928 2111 10 189 6811 6189 16189 6880 6939 6917 9090 54,46 30 += 3,0 DRAT 2,6 +022,6 2,6 +022,6 3,1 +0= 3,1 URAT 4=3,7 MAN 2.8 +022-8 UNA7 2,540-25 Temperature DNAT 2,1+022,1 1503624



Pace Analytical® ANALYTICAL REPORT

December 16, 2022

GBMc & Associates - Bryant, AR

Sample Delivery Group:	L1563700
Samples Received:	12/03/2022
Project Number:	1145-21-081
Description:	Entergy ISES
Site:	ISES
Report To:	Jonathan Brown
	219 Brown Lane
	Bryant, AR 72022

Тс Ss Cn Śr ʹQc Gl A Sc

Entire Report Reviewed By:

Mark W. Beasley Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

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

ACCOUNT: GBMc & Associates - Bryant, AR PROJECT: 1145-21-081

SDG: L1563700

DATE/TIME: 12/16/22 13:34 PAGE: 1 of 34

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¹Cp ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

SDG: L1563700 DATE/TIME: 12/16/22 13:34

SAMPLE SUMMARY

MW-1 L1563700-01 GW			Collected by Danielle Braund	Collected date/time 11/30/22 13:51	Received da 12/03/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1969770	1	12/06/22 08:13	12/06/22 08:38	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1969866	1	12/06/22 16:07	12/06/22 16:07	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1971533	5	12/09/22 05:32	12/09/22 05:32	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1971330	1	12/14/22 11:06	12/16/22 08:48	ABL	Mt. Juliet, TN
MW-2 L1563700-02 GW			Collected by Danielle Braund	Collected date/time 12/01/22 16:54	Received da 12/03/22 09:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1970642	1	12/07/22 13:10	12/07/22 16:44	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1969866	1	12/06/22 16:22	12/06/22 16:22	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1971533	5	12/09/22 05:46	12/09/22 05:46	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1971331	1	12/14/22 19:22	12/16/22 01:28	ABL	Mt. Juliet, TN
MW-3 L1563700-03 GW			Collected by Danielle Braund	Collected date/time 12/01/22 18:02	Received da 12/03/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1970658	1	12/07/22 13:07	12/07/22 16:49	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1969866	1	12/06/22 16:37	12/06/22 16:37	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1971331	1	12/14/22 19:22	12/16/22 01:17	ABL	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
MW-6 L1563700-04 GW			Danielle Braund	12/01/22 15:02	12/03/22 09:	15
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1970642	1	12/07/22 13:10	12/07/22 16:44	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1969866	1	12/06/22 16:53	12/06/22 16:53	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1971331	1	12/14/22 19:22	12/16/22 01:30	ABL	Mt. Juliet, TN
MW-7 L1563700-05 GW			Collected by Danielle Braund	Collected date/time 12/01/22 14:05	Received da 12/03/22 09:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1970658	1	12/07/22 13:07	12/07/22 16:49	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1969866	1	12/06/22 17:39	12/06/22 17:39	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1971331	1	12/14/22 19:22	12/16/22 01:33	ABL	Mt. Juliet, TN
MW-8 L1563700-06 GW			Collected by Danielle Braund	Collected date/time 11/29/22 16:02	Received da 12/03/22 09:	
		Diluti	Dronoutie	Anglusia	A I. •	1
Markle and		Dilution	Preparation	Analysis	Analyst	Location
Method	Batch		date/time	date/time		
	WG1969449	1	date/time 12/05/22 12:52	date/time 12/05/22 15:50	AS	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011		1			AS GEB	Mt. Juliet, TN Mt. Juliet, TN
Method Gravimetric Analysis by Method 2540 C-2011 Wet Chemistry by Method 9056A Wet Chemistry by Method 9056A	WG1969449		12/05/22 12:52	12/05/22 15:50		

PROJECT: 1145-21-081

SDG: L1563700 DATE/TIME: 12/16/22 13:34 **PAGE**: 3 of 34 Ср

²Tc

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Sr

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SAMPLE SUMMARY

MW-10 L1563700-07 GW			Collected by Danielle Braund	Collected date/time 11/30/22 15:10	Received dat 12/03/22 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1969765	1	12/06/22 08:40	12/06/22 09:36	DTM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1969866	1	12/06/22 18:41	12/06/22 18:41	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1971331	1	12/14/22 19:22	12/16/22 01:44	ABL	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
MW-11 L1563700-08 GW			Danielle Braund	12/01/22 13:17	12/03/22 09:	15
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1970658	1	12/07/22 13:07	12/07/22 16:49	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1969866	1	12/06/22 18:56	12/06/22 18:56	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1971331	1	12/14/22 19:22	12/16/22 01:47	ABL	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
CCR FIELD BLANK 1 L1563700-09 GW			Danielle Braund	12/01/22 14:40	12/03/22 09:	15
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1970658	1	12/07/22 13:07	12/07/22 16:49	AS	Mt. Juliet, TN
Vet Chemistry by Method 9056A	WG1969866	1	12/06/22 19:12	12/06/22 19:12	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1971331	1	12/14/22 19:22	12/16/22 01:49	ABL	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
CCR DUPLICATE MW-11 L1563700-10 GW			Danielle Braund	12/01/22 13:17	12/03/22 09:	15
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1970658	1	12/07/22 13:07	12/07/22 16:49	AS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1969866	1	12/06/22 19:27	12/06/22 19:27	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1971331	1	12/14/22 19:22	12/16/22 01:52	ABL	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
MW-9 L1563700-11 GW			Danielle Braund	11/30/22 10:20	12/05/22 09:	45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1970642	1	12/07/22 13:10	12/07/22 16:44	AS	Mt. Juliet, TN
					055	
Wet Chemistry by Method 9056A	WG1969959	1	12/06/22 16:28	12/06/22 16:28	GEB	Mt. Juliet, TN

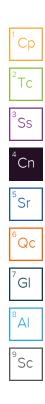
SDG: L1563700

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.

h

Mark W. Beasley Project Manager



SDG: L1563700 DATE/TIME: 12/16/22 13:34 PAGE: 5 of 34 MW-1

Collected date/time: 11/30/22 13:51

SAMPLE RESULTS - 01

	Result	Units					
Analyte							
pH (On Site)	6.89	SU					
Gravimetric Anal	ysis by Method 2	2540 C-20)11				
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Dissolved Solids	918		20.0	1	12/06/2022 08:38	<u>WG1969770</u>	
Wet Chemistry h	v Method 9056	Δ					
Wet Chemistry by	Result	م Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	Result mg/l		mg/l	Dilution	date / time		
Analyte Chloride	Result mg/l 177		mg/l 1.00	1	date / time 12/06/2022 16:07	WG1969866	
Analyte	Result mg/l		mg/l	Dilution 1 1 5	date / time	WG1969866 WG1969866	
Analyte Chloride Fluoride	Result mg/l 177 0.195 281		mg/l 1.00 0.150	1	date / time 12/06/2022 16:07 12/06/2022 16:07	WG1969866	
Analyte Chloride Fluoride Sulfate	Result mg/l 177 0.195 281		mg/l 1.00 0.150	1	date / time 12/06/2022 16:07 12/06/2022 16:07	WG1969866 WG1969866	
Analyte Chloride Fluoride Sulfate	Result mg/l 177 0.195 281 lethod 6010B	Qualifier	mg/l 1.00 0.150 25.0	1 1 5	date / time 12/06/2022 16:07 12/06/2022 16:07 12/09/2022 05:32	WG1969866 WG1969866 WG1971533	
Analyte Chloride Fluoride Sulfate Metals (ICP) by N	Result mg/l 177 0.195 281 1ethod 6010B Result	Qualifier	mg/l 1.00 0.150 25.0 RDL	1 1 5	date / time 12/06/2022 16:07 12/06/2022 16:07 12/09/2022 05:32 Analysis	WG1969866 WG1969866 WG1971533	

SDG: L1563700 MW-2

Collected date/time: 12/01/22 16:54

SAMPLE RESULTS - 02

	Result	Units					
Analyte		Cinto					
pH (On Site)	7.32	SU					
Gravimetric Analy	vsis by Method 2	2540 C-20)11				
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Dissolved Solids	657		13.3	1	12/07/2022 16:44	WG1970642	
Wet Chemistry by	Method 9056	^					
, ,		-					
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
			RDL mg/l	Dilution	Analysis date / time	Batch	
Analyte	Result			Dilution 1		Batch WG1969866	
Analyte Chloride	Result mg/l		mg/l	Dilution 1 1	date / time		
Analyte Chloride Fluoride	Result mg/l 9.37		mg/l 1.00	Dilution 1 1 5	date / time 12/06/2022 16:22	WG1969866	
Analyte Chloride Fluoride Sulfate	Result mg/l 9.37 0.222 238		mg/l 1.00 0.150	1	date / time 12/06/2022 16:22 12/06/2022 16:22	WG1969866 WG1969866	
Analyte Chloride Fluoride Sulfate	Result mg/l 9.37 0.222 238		mg/l 1.00 0.150	1	date / time 12/06/2022 16:22 12/06/2022 16:22	WG1969866 WG1969866	
Analyte Chloride Fluoride Sulfate Metals (ICP) by M	Result mg/l 9.37 0.222 238 ethod 6010B	Qualifier	mg/l 1.00 0.150 25.0	1 1 5	date / time 12/06/2022 16:22 12/06/2022 16:22 12/09/2022 05:46	WG1969866 WG1969866 WG1971533	
Analyte Chloride Fluoride Sulfate Metals (ICP) by M Analyte Boron	Result mg/l 9.37 0.222 238 ethod 6010B Result	Qualifier	mg/l 1.00 0.150 25.0 RDL	1 1 5	date / time 12/06/2022 16:22 12/06/2022 16:22 12/09/2022 05:46 Analysis	WG1969866 WG1969866 WG1971533	

SDG: L1563700 Collected date/time: 12/01/22 18:02

SAMPLE RESULTS - 03

	Result	Units				
Analyte						
pH (On Site)	6.81	SU				
Gravimetric Anal	ysis by Method 2	2540 C-20)11			
	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Dissolved Solids	443		10.0	1	12/07/2022 16:49	WG1970658
Wet Chemistry b	y Method 9056 Result	۵ Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Analyte Chloride	mg/l 46.8		mg/l 1.00	1	date / time 12/06/2022 16:37	WG1969866
	5		0	1		WG1969866 WG1969866
Chloride	46.8		1.00	1 1 1	12/06/2022 16:37	
Chloride Fluoride	46.8 0.164 83.3		1.00 0.150	1	12/06/2022 16:37 12/06/2022 16:37	WG1969866
Chloride Fluoride Sulfate	46.8 0.164 83.3	Qualifier	1.00 0.150	1	12/06/2022 16:37 12/06/2022 16:37	WG1969866
Chloride Fluoride Sulfate	46.8 0.164 83.3 1ethod 6010B	Qualifier	1.00 0.150 5.00	1	12/06/2022 16:37 12/06/2022 16:37 12/06/2022 16:37	WG1969866 WG1969866
Chloride Fluoride Sulfate Metals (ICP) by M	46.8 0.164 83.3 1ethod 6010B Result	Qualifier	1.00 0.150 5.00 RDL	1	12/06/2022 16:37 12/06/2022 16:37 12/06/2022 16:37 12/06/2022 16:37	WG1969866 WG1969866

SDG: L1563700 DATE/TIME: 12/16/22 13:34

Collected date/time: 12/01/22 15:02

SAMPLE RESULTS - 04

pH (On Site) 6.75 su Gravimetric Analysis by Method 2540 C-2011 Analyte Result Qualifier RDL Dilution Analysis Batch Analyte mg/l International of the second of th		Result	Units					
Gravimetric Analysis by Method 2540 C-2011 Result Qualifier RDL Dilution Analysis Batch Analyte mg/l mg/l date / time date / time Dissolved Solids 416 10.0 1 12/07/2022 16:44 WG1970642 Wet Chemistry by Method 29056A Metalyte Qualifier RDL Dilution Analysis Batch Analyte mg/l Mg/l date / time Mg/l Mg199866 Mg199866 Flooride 0.153 0.150 1 12/06/2022 16:53 WG1969866 Metals (ICP) by Method 5/00B Mg1 Dilution Analysis Batch Analyte mg/l 0.150 1 12/06/2022 16:53 WG1969866 Metals (ICP) by Method 5/0B Metals (ICP) by Method 5/0B Mg1 Dilution Analysis Batch Manayte mg/l 0.200 1 12/16/2022 01:30 WG1971331	Analyte							
Result mg/lQualifier mg/lRDL mg/lDilution date / timeAnalysis date / timeDissolved Solids41610.0112/07/2022 16.44WG1970642Wet Chemistry by Method 9056ASulfier mg/lRDL mg/lDilution AnalysisAnalysis BatchAnalyteMg/lQualifier mg/lRDL mg/lDilution date / timeAnalysis date / timeChloride31.51.00112/06/2022 16:53WG1969866Fluoride0.1530.150112/06/2022 16:53WG1969866Sulfate1165.00112/06/2022 16:53WG1969866Metals (ICP) by Method 6010BQualifier mg/lRDL mg/lDilution date / timeAnalysis date / timeAnalytemg/l0.200112/06/2022 16:53WG1969866Metals (ICP) by Method 6010B0.200112/06/2022 16:53BatchAnalytemg/l0.200112/16/2020 10:30BatchBoronND0.200112/16/2020 10:30WG1971331	pH (On Site)	6.75	SU					
Analyte mg/l mg/l date / time Dissolved Solids 416 10.0 1 12/07/2022 16:44 WG1970642 Wet Chemistry by Method 9056A Result Qualifier RDL Dilution Analysis Batch Analyte mg/l mg/l 0.00 1 12/06/2022 16:53 WG1969866 Fluoride 31.5 1.00 1 12/06/2022 16:53 WG1969866 Fluoride 0.153 0.150 1 12/06/2022 16:53 WG1969866 Sulfate 116 5.00 1 12/06/2022 16:53 WG1969866 Metals (ICP) by Method 60/10B E 5.00 1 12/06/2022 16:53 WG1969866 Metals (ICP) by Method 60/10B E E E E E Manalyte mg/l mg/l date / time E E Boron ND 0.200 1 12/16/2022 01:30 WG1971331	Gravimetric Analy	vsis by Method 2	2540 C-20	11				
Dissolved Solids 416 10.0 1 12/07/2022 16:44 WG1970642 Wet Chemistry by Method 9056A Result Qualifier RDL Dilution Analysis Batch Analyte mg/l mg/l date / time WG1970642 Chloride 31.5 1.00 1 12/06/2022 16:53 WG1969866 Fluoride 0.153 0.150 1 12/06/2022 16:53 WG1969866 Sulfate 116 5.00 1 12/06/2022 16:53 WG1969866 Metals (ICP) by Method 6010B Sulfate Result Qualifier RDL Dilution Analysis Batch Metals (ICP) by Method 6010B Sulfate Dilution Analysis MG1969866 Metals (ICP) by Method 6010B Sulfate Dilution Analysis Batch Manalyte mg/l Cluoride Dilution Analysis Batch Manalyte Mg/l Dilution Analysis Batch Boron ND 0.200 1 12/16/2022 01:30<		Result	Qualifier	RDL	Dilution	Analysis	Batch	
Wet Chemistry by Method 9056A Result Qualifier RDL Dilution Analysis Batch Analyte mg/l mg/l date / time Chloride 31.5 1.00 1 12/06/2022 16:53 WG1969866 Fluoride 0.153 0.150 1 12/06/2022 16:53 WG1969866 Sulfate 116 5.00 1 12/06/2022 16:53 WG1969866 Metals (ICP) by Method 6/10B Metals (ICP) by Method 6/10B Metals (ICP) by Method 6/10B Malyte mg/l Dilution Analyte Mg/l Batch Bronn ND 0.200 1 12/16/2022 01:30 WG1971331	Analyte	mg/l		mg/l		date / time		
Result Qualifier RDL Dilution Analysis Batch Analyte mg/l mg/l date / time date / time Chloride 31.5 1.00 1 12/06/2022 16:53 WG1969866 Fluoride 0.153 0.150 1 12/06/2022 16:53 WG1969866 Sulfate 116 5.00 1 12/06/2022 16:53 WG1969866 Metals (ICP) by Method O'IOB 5.00 1 12/06/2022 16:53 WG1969866 Metals (ICP) by Method O'IOB Kesult Qualifier RDL Dilution Analysis Batch Analyte mg/l Qualifier RDL Dilution Analysis Batch Boron ND 0.200 1 12/16/2022 01:30 WG1971331	Dissolved Solids	416		10.0	1	12/07/2022 16:44	WG1970642	
Analyte mg/l mg/l date / time Chloride 31.5 1.00 1 12/06/2022 16:53 WG1969866 Fluoride 0.153 0.150 1 12/06/2022 16:53 WG1969866 Sulfate 116 5.00 1 12/06/2022 16:53 WG1969866 Metals (ICP) by Method - Didition Analyte Mg/l Analyte Batch Analyte Mg/l 0.200 1 12/16/2022 01:30 WG1971331	Wet Chemistry by			RDL	Dilution	Analysis	Batch	
Result Qualifier RDL Dilution Analysis Batch Boron ND 0.200 1 12/16/2022 16:53 WG1969866 Metals (ICP) by Method 6010B Dilution Analysis Batch More and the second of the	Analyte	mg/l		mg/l		-	—	
Sulfate 116 5.00 1 12/06/2022 16:53 WG1969866 Metals (ICP) by Method 6010B Result Qualifier RDL Dilution Analysis Batch Analyte mg/l mg/l 0.200 1 12/16/2022 01:30 WG1969866 Boron ND 0.200 1 12/16/2022 01:30 WG1971331	Chloride	31.5		1.00	1	12/06/2022 16:53	WG1969866	
Metals (ICP) by Method 6010B Result Qualifier RDL Dilution Analysis Batch Analyte mg/l mg/l 0.200 1 12/16/2022 01:30 WG1971331	Eluorido	0.153		0.150	1	12/06/2022 16:53	WG1969866	
ResultQualifierRDLDilutionAnalysisBatchAnalytemg/lmg/ldate / timeBoronND0.200112/16/2022 01:30WG1971331	riuoriue							
Analyte mg/l mg/l date / time Boron ND 0.200 1 12/16/2022 01:30 WG1971331	Sulfate	116		5.00	1	12/06/2022 16:53	<u>WG1969866</u>	
Boron ND 0.200 1 12/16/2022 01:30 WG1971331	Sulfate			5.00	1	12/06/2022 16:53	<u>WG1969866</u>	
	Sulfate	ethod 6010B	Qualifier		1 Dilution			
Calcium 62.9 1.00 1 12/16/2022 01:30 WG1971331	Sulfate	ethod 6010B Result	Qualifier	RDL	1 Dilution	Analysis		
	Sulfate Metals (ICP) by M	ethod 6010B Result mg/l	Qualifier	RDL mg/l	1 Dilution	Analysis date / time	Batch	

SDG: L1563700 DATE/TIME: 12/16/22 13:34 PAGE:

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Collected date/time: 12/01/22 14:05

SAMPLE RESULTS - 05

	Result	Units				
Analyte						
Res. Chlorine (On Site)	7.64	mg/l				
Gravimetric Analysi	s by Method	2540 C-20)11			
	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Dissolved Solids	495		10.0	1	12/07/2022 16:49	WG1970658
Wet Chemistry by N				Dilution	Analysia	Detah
	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	Result mg/l		mg/l	Dilution	date / time	
Analyte Chloride	Result mg/l 18.3		mg/l 1.00	Dilution 1	date / time 12/06/2022 17:39	WG1969866
Analyte	Result mg/l		mg/l	Dilution 1 1	date / time	
Analyte Chloride	Result mg/l 18.3		mg/l 1.00	Dilution 1 1 1	date / time 12/06/2022 17:39	WG1969866
Analyte Chloride Fluoride	Result mg/l 18.3 0.660 49.7		mg/l 1.00 0.150	Dilution 1 1 1	date / time 12/06/2022 17:39 12/06/2022 17:39	WG1969866 WG1969866
Analyte Chloride Fluoride Sulfate	Result mg/l 18.3 0.660 49.7		mg/l 1.00 0.150	Dilution 1 1 1 Dilution	date / time 12/06/2022 17:39 12/06/2022 17:39	WG1969866 WG1969866
Analyte Chloride Fluoride Sulfate	Result mg/l 18.3 0.660 49.7 hod 6010B	Qualifier	mg/l 1.00 0.150 5.00	1 1 1	date / time 12/06/2022 17:39 12/06/2022 17:39 12/06/2022 17:39	WG1969866 WG1969866 WG1969866
Analyte Chloride Fluoride Sulfate Metals (ICP) by Met	Result mg/l 18.3 0.660 49.7 hod 6010B Result	Qualifier	mg/l 1.00 0.150 5.00 RDL	1 1 1	date / time 12/06/2022 17:39 12/06/2022 17:39 12/06/2022 17:39 Analysis	WG1969866 WG1969866 WG1969866

SDG: L1563700 DATE/TIME: 12/16/22 13:34 MW-8

Collected date/time: 11/29/22 16:02

SAMPLE RESULTS - 06

	Result	Units					
Analyte							
pH (On Site)	7.03	SU					
Gravimetric Analy	ysis by Method	2540 C-20)11				
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Dissolved Solids	764		13.3	1	12/05/2022 15:50	WG1969449	
Wet Chemistry by	y Method 9056 Result	۵ <u>Qualifier</u>	RDL	Dilution	Analysis	Batch	
Wet Chemistry by			RDL mg/l	Dilution	Analysis date / time	Batch	
, , , , , , , , , , , , , , , , ,	Result			Dilution 1		Batch WG1969866	
Analyte	Result mg/l		mg/l	Dilution 1 1	date / time		
Analyte Chloride	Result mg/l 117		mg/l 1.00	1	date / time 12/06/2022 18:25	WG1969866	
Analyte Chloride Fluoride	Result mg/l 117 0.209 215		mg/l 1.00 0.150	1	date / time 12/06/2022 18:25 12/06/2022 18:25	WG1969866 WG1969866	
Analyte Chloride Fluoride Sulfate	Result mg/l 117 0.209 215		mg/l 1.00 0.150	1	date / time 12/06/2022 18:25 12/06/2022 18:25	WG1969866 WG1969866	
Analyte Chloride Fluoride Sulfate	Result mg/l 117 0.209 215 lethod 6010B	Qualifier	mg/l 1.00 0.150 25.0	1 1 5	date / time 12/06/2022 18:25 12/06/2022 18:25 12/09/2022 06:15	WG1969866 WG1969866 WG1971533	
Analyte Chloride Fluoride Sulfate Metals (ICP) by M	Result mg/l 117 0.209 215 lethod 6010B Result	Qualifier	mg/l 1.00 0.150 25.0 RDL	1 1 5	date / time 12/06/2022 18:25 12/06/2022 18:25 12/09/2022 06:15 Analysis	WG1969866 WG1969866 WG1971533	

SDG: L1563700

1 12 MW-10

Calcium

65.7

1.00

1

Collected date/time: 11/30/22 15:10

SAMPLE RESULTS - 07

	Result	Units					(
Analyte							2
pH (On Site)	6.75	SU					<u> </u>
Gravimetric Analy	vsis by Method 2	2540 C-20)11				3
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		4
Dissolved Solids	458		10.0	1	12/06/2022 09:36	WG1969765	
Wet Chemistry by	Method 9056	4					5
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		ັ(
Chloride	61.0		1.00	1	12/06/2022 18:41	<u>WG1969866</u>	
Fluoride	0.183		0.150	1	12/06/2022 18:41	<u>WG1969866</u>	7
Sulfate	83.4		5.00	1	12/06/2022 18:41	WG1969866	
Metals (ICP) by M	ethod 6010B						8 /
	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time		
Boron	ND		0.200		12/16/2022 01:44	WG1971331	

12/16/2022 01:44

SDG: L1563700 WG1971331

SAMPLE RESULTS - 08

Collected date/time: 1	2/01/22 13:17			L1563	700		
Additional Inform	ation - Results f	or field and	alyses are	e <mark>not</mark> accr	edited to ISO 1	7025	1
	Result	Units					Ср
Analyte							2
pH (On Site)	7	su					Tc
Gravimetric Analy	ysis by Method 2	2540 C-20)11				³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Dissolved Solids	442		10.0	1	12/07/2022 16:49	WG1970658	
Wet Chemistry by	y Method 9056	4					⁵Sr
	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		ČQC
Chloride	45.1		1.00	1	12/06/2022 18:56	WG1969866	
Fluoride	0.241		0.150	1	12/06/2022 18:56	WG1969866	⁷ Gl
Sulfate	110		5.00	1	12/06/2022 18:56	WG1969866	01
Metals (ICP) by M	lethod 6010B						⁸ Al
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		⁹ Sc
Boron	0.381		0.200	1	12/16/2022 01:47	WG1971331	
Calcium	68.7		1.00	1	12/16/2022 01:47	WG1971331	

SDG: L1563700

DATE/TIME: 12/16/22 13:34

SAMPLE RESULTS - 09 L1563700

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch		Ср
Analyte	mg/l		mg/l		date / time		2	
Dissolved Solids	ND		10.0	1	12/07/2022 16:49	WG1970658		Тс

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
nalyte	mg/l		mg/l		date / time		
nloride	ND		1.00	1	12/06/2022 19:12	<u>WG1969866</u>	
luoride	ND		0.150	1	12/06/2022 19:12	<u>WG1969866</u>	
Sulfate	ND		5.00	1	12/06/2022 19:12	WG1969866	

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Boron	ND		0.200	1	12/16/2022 01:49	WG1971331	
Calcium	ND		1.00	1	12/16/2022 01:49	WG1971331	

Qc

Gl

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	Result	Units				
Analyte						
pH (On Site)	7	su				
Gravimetric Anal	ysis by Method 2	2540 C-20)11			
	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Dissolved Solids	450		10.0	1	12/07/2022 16:49	WG1970658
Analyte	Result mg/l	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	43.7		mg/l 1.00	1	12/06/2022 19:27	WG1969866
Fluoride	0.220		0.150	1	12/06/2022 19:27	WG1969866
			0.150		12/00/2022 13.27	101505000
	103		5.00	1	12/06/2022 19:27	WG1969866
Sulfate	103		5.00	1	12/06/2022 19:27	<u>WG1969866</u>
			5.00	1	12/06/2022 19:27	<u>WG1969866</u>
Sulfate		Qualifier	5.00 RDL	1 Dilution	12/06/2022 19:27 Analysis	WG1969866 Batch
Sulfate	lethod 6010B	Qualifier				
Sulfate Metals (ICP) by N	1ethod 6010B Result	Qualifier	RDL		Analysis	

SAMPLE RESULTS - 11 L1563700

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		2
Dissolved Solids	795		13.3	1	12/07/2022 16:44	WG1970642	Tc

Wet Chemistry by Method 9056A

Collected date/time: 11/30/22 10:20

Wet Chemistry b	y Method 90564	4					3	³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	mg/l		mg/l		date / time		2	⁴ Cn
Chloride	34.6		1.00	1	12/06/2022 16:28	WG1969959		CII
Fluoride	ND		0.150	1	12/06/2022 16:28	WG1969959		5
Sulfate	193		5.00	1	12/06/2022 16:28	WG1969959		Sr

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Boron	0.728		0.200	1	12/16/2022 01:55	<u>WG1971331</u>
Calcium	101		1.00	1	12/16/2022 01:55	WG1971331

SDG: L1563700 Qc

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1563700-06

Method Blank (MB)

(MB) R3869475-1 12/05	5/22 15:50			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1563700-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1563700-06 12/05/	'22 15:50 • (DUF	P) R3869475-3	12/05/22	15:50		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	764	779	1	1.90		5

L1563709-06 Original Sample (OS) • Duplicate (DUP)

L1563709-06 Or	riginal Sample	e (OS) • Du	iplicate	(DUP)			⁷ Gl
(OS) L1563709-06 12/	05/22 15:50 • (DUF	P) R3869475-4	4 12/05/22	2 15:50			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD .imits	⁸ Al
Analyte	mg/l	mg/l		%		6	
Dissolved Solids	743	789	1	6.09	<u>13</u>	5	°Sc

Laboratory Control Sample (LCS)

(LCS) R3869475-2 12	2/05/22 15:50				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8370	95.1	77.3-123	

DATE/TIME: 12/16/22 13:34

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1563700-07

Method Blank (MB)

(MB) R3869901-1 12/06	6/22 09:36			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1563044-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1563044-05 12	2/06/22 09:36 • (D	UP) R3869901-	3 12/06/2	2 09:36		
	Original Resu	It DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1010	1010	1	0.198		5

L1563709-01 Original Sample (OS) • Duplicate (DUP)

L1563709-01 Or	iginal Sample	(OS) • Du	plicate	(DUP)			⁷ Gl
(OS) L1563709-01 12/	06/22 09:36 • (DUI	P) R3869901-4	4 12/06/22	2 09:36			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al
Analyte	mg/l	mg/l		%		%	
Dissolved Solids	938	974	1	3.77		5	⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3869901-2 12/0	06/22 09:36				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8510	96.7	77.3-123	

SDG: L1563700

DATE/TIME: 12/16/22 13:34

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3869822-1 12/0	06/22 08:38			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1562710-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1562710-01 12/	(06/22 08:38 • (DU	P) R3869822-3	3 12/06/22	08:38		
	Original Resu	It DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1220	1220	1	0.164		5

Laboratory Control Sample (LCS)

(LCS) R3869822-2 12	2/06/22 08:38				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	7710	87.6	77.3-123	

SDG: L1563700 DATE/TIME: 12/16/22 13:34

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1563700-02,04,11

Method Blank (MB)

(MB) R3869961-1 12/	07/22 16:44			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U	J	10.0	10.0

L1563595-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1563595-01 12/07/2	22 16:44 • (DUP)	R3869961-3	12/07/22	6:44		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	293	312	1	6.28	J3	5

L1563595-02 Original Sample (OS) • Duplicate (DUP)

L1563595-02 O	riginal Sample	e (OS) • Du	iplicate	(DUP)			⁷ G
(OS) L1563595-02 12/	/07/22 16:44 • (DUF) R3869961-4	12/07/22	16:44			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ /
Analyte	mg/l	mg/l		%		%	
Dissolved Solids	282	295	1	4.51		5	9

Laboratory Control Sample (LCS)

(LCS) R3869961-2 12	.CS) R3869961-2 12/07/22 16:44										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/l	mg/l	%	%							
Dissolved Solids	8800	8520	96.8	77.3-123							

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1563700-03,05,08,09,10

Method Blank (MB)

Method Blank	IVIB)				1 Cp
(MB) R3869953-1 12	/07/22 16:49				Cp
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	Tc
Dissolved Solids	U		10.0	10.0	
					³ Ss

L1563667-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1563667-02 12/07	7/22 16:49 • (DUP) R3869953-3	3 12/07/22	16:49		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	272	282	1	3.61		5

L1563667-03 Original Sample (OS) • Duplicate (DUP)

L1563667-03 Or	riginal Sample	(OS) • Du	plicate	(DUP)		
(OS) L1563667-03 12/	/07/22 16:49 • (DUP) R3869953-4	1 12/07/22	16:49		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	275	284	1	3.22		5

Laboratory Control Sample (LCS)

(LCS) R3869953-2 12	LCS) R3869953-2 12/07/22 16:49											
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier							
Analyte	mg/l	mg/l	%	%								
Dissolved Solids	8800	8510	96.7	77.3-123								

DATE/TIME: 12/16/22 13:34

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1563700-01,02,03,04,05,06,07,08,09,10

Method Blank (MB)

(MB) R3869608-1 12/	/06/22 10:27
---------------------	--------------

(MB) R3869608-1 12/06/2	2210:27				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	⁻Tc
Chloride	U		0.379	1.00	
Fluoride	U		0.0640	0.150	³ Ss
Sulfate	U		0.594	5.00	00

L1563693-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1563693-01 12/06/2	2 12:16 • (DUP)	R3869608-3	12/06/22	12:31		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	175	177	1	1.25		15
Fluoride	0.194	0.212	1	8.97		15

L1563700-05 Original Sample (OS) • Duplicate (DUP)

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	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	18.3	18.4	1	0.496		15
Fluoride	0.660	0.673	1	1.98		15
Sulfate	49.7	49.5	1	0.415		15

Laboratory Control Sample (LCS)

LCS) R3869608-2 12/06/22 10:43										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/l	mg/l	%	%						
Chloride	40.0	39.3	98.2	80.0-120						
Fluoride	8.00	8.35	104	80.0-120						
Sulfate	40.0	39.4	98.5	80.0-120						

L1563693-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1563693-01	12/06/22 12:16 • (MS) F	3869608-4 12	2/06/22 12:46	6 • (MSD) R3869	9608-5 12/06	6/22 13:02							
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Chloride	50.0	175	221	225	91.4	99.5	1	80.0-120	E	E	1.83	15	
Fluoride	5.00	0.194	5.21	5.13	100	98.7	1	80.0-120			1.57	15	
		PRO	OJECT:			SDG:		DATE	/TIME:		PAGE:		

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1563700-01,02,03,04,05,06,07,08,09,10

L1563693-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1563693-01 12/06/22	2 12:16 • (MS) R	3869608-4 12	2/06/22 12:46 •	(MSD) R38696	08-5 12/06/22	2 13:02						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Sulfate	50.0	308	349	342	82.5	68.4	1	80.0-120	E	ΕV	2.04	15

L1563700-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1563700-05 12/06/	/22 17:39 • (MS)	R3869608-7 1	2/06/22 18:10				
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	18.3	70.2	104	1	80.0-120	
Fluoride	5.00	0.660	6.03	107	1	80.0-120	
Sulfate	50.0	49.7	102	106	1	80.0-120	

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1563700-11

Method Blank (MB)

(MB)	R38690/8-1	12/06/22	10:33

(MD) K3803078-1	12/00/22 10.55				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
Chloride	U		0.379	1.00	
Fluoride	U		0.0640	0.150	
Sulfate	U		0.594	5.00	

L1563872-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1563872-01	12/06/22 18:21 • (DUP) R3869078-3 12/06/22 18:33
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						DUP RPD
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	Limits
Analyte	mg/l	mg/l		%		%
Chloride	ND	ND	1	17.1	<u>P1</u>	15
Fluoride	ND	ND	1	20.5	<u>P1</u>	15
Sulfate	ND	ND	1	0.260		15

L1564151-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1564151-07 12/06/2	2 21:15 • (DUP) I	23869078-6	12/06/22 2	21:28			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	
Analyte	mg/l	mg/l		%		%	
Chloride	3.88	3.77	1	2.90		15	
Fluoride	ND	ND	1	10.9		15	
Sulfate	24.4	24.4	1	0.00164		15	

Laboratory Control Sample (LCS)

(LCS) R3869078-2 12/06	/22 10:45				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	41.1	103	80.0-120	
Fluoride	8.00	8.54	107	80.0-120	
Sulfate	40.0	41.4	103	80.0-120	

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1563872-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1563872-01 12/06/2	22 18:21 • (MS) F	3869078-4 12	/06/22 18:45 •	(MSD) R38690	078-5 12/06/22	2 18:58						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	ND	52.7	53.9	104	107	1	80.0-120			2.36	15
Fluoride	5.00	ND	5.49	5.64	108	111	1	80.0-120			2.63	15
Sulfate	50.0	ND	52.8	54.2	104	106	1	80.0-120			2.51	15

L1564151-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1564151-07 12/06/2	2 21:15 • (MS) R	3869078-7 12/	06/22 21:40				
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	3.88	55.6	104	1	80.0-120	
Fluoride	5.00	ND	5.48	107	1	80.0-120	
Sulfate	50.0	24.4	74.9	101	1	80.0-120	

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1563700-01,02,06

Method Blank (MB)

(MB) R3870411-1 12/0	09/22 04:19			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Sulfate	U		0.594	5.00

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L1563700-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1563700-02 12/09/22 05:46 • (DUP) R3870411-3 12/09/22 06:01										
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits				
Analyte	mg/l	mg/l		%		%				
Sulfate	238	242	5	1.47		15				

L1564414-01 Original Sample (OS) • Duplicate (DUP)

L1564414-01 Orig	⁷ C										
OS) L1564414-01 12/09/22 11:33 • (DUP) R3870411-6 12/09/22 11:47											
	Original Resu	It DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	3				
Analyte	mg/l	mg/l		%		%					
Sulfate	7.55	7.51	1	0.574		15	S				

Laboratory Control Sample (LCS)

(LCS) R3870411-2 12/09/2	CS) R3870411-2 12/09/22 04:34									
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/l	mg/l	%	%						
Sulfate	40.0	40.7	102	80.0-120						

L1564250-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1564250-01 12/09/22 07:13 • (MS) R3870411-4 12/09/22 07:27 • (MSD) R3870411-5 12/09/22 07:42												
Spike Amount Original Result MS Result MS Result MS Rec. MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD RPD Limits											RPD Limits	
Analyte	ma/l	ma/l	ma/l	ma/l	0/_	0/_		0/_			0/_	9/
	iiig/i	iliy/i	iiig/i	mg/i	/0	70		/0			/0	70

L1564414-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1564414-01 12/09/22 11:33 • (MS) R3870411-7 12/09/22 12:02										
Spike Amount Original Result MS Result MS Rec. Dilution Rec. Limits <u>MS Qualifier</u>										
Analyte	mg/l	mg/l	mg/l	%		%				
Sulfate	50.0	7.55	57.5	99.8	1	80.0-120				

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Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY L1563700-01

Method Blank (MB)

Method Blau	K (IVIB)									
(MB) R3872667-1 12/16/22 07:38										
	MB Result	MB Qualifier	MB MDL	MB RDL						
Analyte	mg/l		mg/l	mg/l						
Boron	U		0.0200	0.200						
Calcium	U		0.0793	1.00						

Laboratory Control Sample (LCS)

(LCS) R3872667-2 12	2/16/22 07:40					
	Spike Amoun	t LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	mg/l	mg/l	%	%		
Boron	1.00	0.986	98.6	80.0-120		
Calcium	10.0	9.71	97.1	80.0-120		

L1563653-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1563653-08 12/16/22 07:43 • (MS) R3872667-4 12/16/22 07:48 • (MSD) R3872667-5 12/16/22 07:51														⁸ Al	
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits			
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%		9	
Boron	1.00	0.251	1.24	1.22	98.7	97.3	1	75.0-125			1.13	20		Sc	
Calcium	10.0	69.2	76.8	76.3	76.1	71.6	1	75.0-125		$\underline{\vee}$	0.582	20			I.

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Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY L1563700-02,03,04,05,06,07,08,09,10,11

Method Blank (MB)

Method Dian										
(MB) R3872485-1 12/16/22 01:12										
	MB Result	MB Qualifier	MB MDL	MB RDL						
Analyte	mg/l		mg/l	mg/l						
Boron	U		0.0200	0.200						
Calcium	U		0.0793	1.00						

Laboratory Control Sample (LCS)

Spike Amount LCS Result LCS Rec. Rec. Limits LCS Qualifier alyte mg/l mg/l % % ron 1.00 0.929 92.9 80.0-120	(LCS) R3872485-2 12/1	6/22 01:14					
alyte mg/l mg/l % %		Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
ron 1.00 0.929 92.9 80.0-120	nalyte	mg/l	mg/l	%	%		
	on	1.00	0.929	92.9	80.0-120		

L1563700-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1563700-03 12/16/22 01:17 • (MS) R3872485-4 12/16/22 01:22 • (MSD) R3872485-5 12/16/22 01:25													
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	9
Boron	1.00	ND	1.03	1.03	92.0	92.2	1	75.0-125			0.161	20	Sc
Calcium	10.0	61.9	69.3	69.3	74.3	74.6	1	75.0-125	$\underline{\vee}$	$\underline{\vee}$	0.0528	20	

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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 resul 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.
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.

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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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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.

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hone: 501-847-7077	1.00	Project # 5-21-081		- sp.cps	b Project # BMCBAR-EN	NTERGYISE	s	NO3	205mlHDPE-NoPres				SC 12 12	C0	76
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WW-1		Grab	GW	33.5	11/30/2	1351	2	×	×				6	.89	-01
NW-2		Grab	GW	32.0	12/1/2	2 1654	2	×	×			2.3	7	.32	-02
AW-3		Grab	GW	33.2	12/1/2	2 1802	2	×	×				6	.81	-03
۸W-6		Grab	GW	30.85	12/1/2	2 1502	2	×	X		3.1/2	1/4		.75	-04
۸W-7	d.f.	Grab	GW	30.6	12/1/2	2 1405	2	×	X		100			.64	-05
۸W-8		Grab	GW	31.2	11/29/2	22 1602	2	×	×					.03	-00
ww-9	J.	Grab	GW	30.65	11/30/2	1020	2	5×	X					5.78	
MW-10	(K	Grab	GW	33.5	11/30/2	22 1510	2	×	×		1947 - 19 1947 - 19			5.75	-07
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CCR FIELD BLANK 1		2 Starting St.	14.1	•	12/1/2	22 1440	2	×	X			16.10	CTAN IS A	DI H2O	1-01
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Rem Fin	arks: al pH in rei	marks	(inter	nal COC1)					pH Flow	Temp		COC Seal Pres COC Signed/Ac Bottles arriv Correct bottl	ccurate: ve intact: les used:	··· _NP /Y
DW - Drinking Water OT - Other		ples returned v PS FedEx		r	Service se	acking #				10			Sufficient vo VOA Zero Head Preservation	If Applical dspace:	ble _Y
Relinquished by : (Signature))_	Dat	12.1	22 IS	500	ceived by: (Sig				Trip Blank	H		RAD Screen <0	0.5 mR/hr:	-f ^x -
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Report to: Jonathan Brown				ail To: r own @	gbmcassoc.con	n;	+		Pres					12065 Lebanon Rd Mount Juliet, TN 37 Phone: 615-758-589	8 (15 H D)
Project Description: Entergy ISES			City/S Collec	tate ted: Ne	wark, AR	Please PT MT			E-No		*			Phone: 800-767-585 Fax: 615-758-5859	
Phone: 501-847-7077	10.00	Project # 5-21-081		1. 1.	Lab Project # GBMCBAR-ENT	ERGYISE	5	NO3	205mlHDPE-NoPres					SDG #	10301
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