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2023 40 C.F.R. § 257 ANNUAL
GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
ASH POND NO. 1
COFFEEN POWER PLANT
COFFEEN, ILLINOIS
CCR UNIT 101

2023 40 C.F.R. § 257 ANNUAL GROUNDWATER
MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT ASH POND NO. 1

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ACRONYMS AND ABBREVIATIONS

35 I.A.C.	Title 35 of the Illinois Administrative Code
40 C.F.R.	Title 40 of the Code of Federal Regulations
A6	Quarter 1, 2023 Assessment Monitoring sampling event
A6R	Quarter 2, 2023 Assessment Monitoring sampling event
A6D	Quarter 3, 2023 Assessment Monitoring sampling event
A6DR	Quarter 4, 2023 Assessment Monitoring sampling event
AP1	Ash Pond No. 1
ASD	Alternative Source Demonstration
CCR	coal combustion residuals
CMA	Corrective Measures Assessment
CPP	Coffeen Power Plant
GWPS	groundwater protection standard
IEPA	Illinois Environmental Protection Agency
NA	not applicable
No.	number
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
SSI	statistically significant increase
SSL	statistically significant level
TBD	to be determined

EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 40 of the Code of Federal Regulations (40 C.F.R.) § 257.90(e) for Ash Pond Number (No.) 1 (AP1) located at the Coffeen Power Plant (CPP) near Coffeen, Illinois.

Groundwater is being monitored at AP1 in accordance with the Assessment Monitoring Program requirements specified in 40 C.F.R. § 257.95. Assessment monitoring was initiated at AP1 on April 9, 2018.

As discussed in Section 3 of this annual report, the monitoring system was updated in 2023 to use the same monitoring system developed for compliance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845, which was submitted to the Illinois Environmental Protection Agency (IEPA) via an operating permit application.

Since no statistically significant levels (SSLs) of 40 C.F.R. § 257 Appendix IV parameters over groundwater protection standards (GWPSs) were determined in 2023, a Corrective Measures Assessment (CMA) is not required. Statistically significant increases (SSIs) of Appendix III parameters above background values were determined as discussed in Section 3; therefore, AP1 remains in the Assessment Monitoring Program.

1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of Illinois Power Generating Company, to provide the information required by 40 C.F.R. § 257.90(e) for AP1 located at the CPP near Coffeen, Illinois.

In accordance with 40 C.F.R. § 257.90(e), the owner or operator of a coal combustion residuals (CCR) unit must prepare an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year that documents the status of the Groundwater Monitoring and Corrective Action Program for the CCR unit (Section 2), summarizes key actions completed (Section 3), describes any problems encountered and actions to resolve the problems (Section 4), and projects key activities for the upcoming year (Section 5). At a minimum, the annual report must contain the following information, to the extent available:

1. A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit (Figure 1).
2. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken (Section 3, paragraph 1).
3. In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the Detection Monitoring or Assessment Monitoring Programs (Section 3, Table A).
4. A narrative discussion of any transition between monitoring programs (*e.g.*, the date and circumstances for transitioning from Detection Monitoring to Assessment Monitoring in addition to identifying the constituent(s) detected at a statistically significant increase relative to background levels) (Section 3).
5. Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.
6. A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit (see Executive Summary). At a minimum, the summary must specify all of the following:
 - i. At the start of the current annual reporting period, whether the CCR unit was operating under the Detection Monitoring Program in §257.94 or the Assessment Monitoring Program in §257.95.
 - ii. At the end of the current annual reporting period, whether the CCR unit was operating under the Detection Monitoring Program in §257.94 or the Assessment Monitoring Program in §257.95.
 - iii. If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III of §257 pursuant to §257.94(e):
 - A. Identify those constituents listed in Appendix III of §257 and the names of the monitoring wells associated with such an increase.

- B. Provide the date when the Assessment Monitoring Program was initiated for the CCR unit.
- iv. If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in Appendix IV of §257 pursuant to §257.95(g) include all of the following:
 - A. Identify those constituents listed in Appendix IV of §257 and the names of the monitoring wells associated with such an increase.
 - B. Provide the date when the assessment of corrective measures was initiated for the CCR unit.
 - C. Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit.
 - D. Provide the date when the assessment of corrective measures was completed for the CCR unit.
- v. Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of remedy selection.
- vi. Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

This report provides the required information for AP1 for calendar year 2023.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

No changes have occurred to the monitoring program status in calendar year 2023 and AP1 remains in the Assessment Monitoring Program in accordance with 40 C.F.R. § 257.95.

3. KEY ACTIONS COMPLETED IN 2023

A summary of the samples collected from background and compliance monitoring wells in 2023 under the Assessment Monitoring Program is included in Table A on the following page. The groundwater monitoring system, including the CCR unit and all background and compliance monitoring wells, is presented in Figure 1. Beginning in 2023, the monitoring system was updated to be consistent with that proposed for compliance with 35 I.A.C. § 845, which includes all of the monitoring wells used in the 2022 40 C.F.R. § 257 monitoring system (Ramboll, 2022a). No wells were installed or decommissioned in 2023 (the wells added from the 35 I.A.C. § 845 monitoring system were installed prior to 2023).

One groundwater sample was collected from each background and compliance well during each monitoring event.¹ AP1 is also regulated under 35 I.A.C. § 845, which requires quarterly monitoring. The groundwater monitoring systems for both programs (35 I.A.C. § 845 and 40 C.F.R. § 257) are identical, so all available data from the four quarterly monitoring events in 2023 are included in this report. All samples were collected and analyzed in accordance with the Multi-Site Sampling and Analysis Plan (SAP) (Ramboll, 2023). Data collected in accordance with 35 I.A.C. § 845 was included for statistical calculations performed in accordance with 40 C.F.R. § 257.95(d)(1); however, SSLs are reported semiannually per 40 C.F.R. § 257.

Potentiometric surfaces for the quarterly sampling events are included in Figures 2 through 5. All monitoring data and analytical results obtained under 40 C.F.R. §§ 257.90 through 257.98 and 35 I.A.C. § 845 in 2023 are presented in Tables 1 through 3. All associated laboratory reports and field data sheets are included in Appendix A. Analytical data received after December 31, 2023 will be reported in the 2024 Annual Groundwater Monitoring and Corrective Action Report.

Analytical data were evaluated in accordance with the Multi-Site Statistical Analysis Plan (Ramboll, 2022b), the Multi-Site Quality Assurance Project Plan (Ramboll, 2022c), and the Multi-Site Data Management Plan (Ramboll, 2022d) to determine any SSLs of Appendix IV parameters over GWPSs and SSIs of Appendix III parameters greater than background values. SSL notifications were completed in accordance with 40 C.F.R. § 257.95(g). SSIs are highlighted in Table 2. Statistical background values are provided in Table 4 and GWPSs in Table 5. A flow chart showing the statistical methodology for determination of background values is included as Appendix B. A summary of the determination of SSLs is included in Table 6. A flow chart showing the statistical methodology for determination of SSLs is included as Appendix C.

¹ Subsidence of the protective casing on compliance monitoring well G312 prevented access to the monitoring well during February 2023 and no groundwater sample was collected. Compliance monitoring well G312 was indicated as dry during November 2023 and no groundwater sample was collected.

The bladder pump installed in compliance monitoring well G307 was indicated as non-functional during August 2023 and no groundwater sample was collected.

Table A. 2023 Assessment Monitoring Program Summary

Event ID	Sampling Dates ^{1, 2, 3}	Analytical Data Receipt Date ^{4, 5}	SSL(s) Determination Date	SSL(s)	ASD Completion Date
A6 ⁶	February 15-16, 2023	June 22, 2023	September 20, 2023	None	NA
A6R	May 31 and June 1, 5-8, 2023	August 17, 2023	NA	NA	NA
A6D ⁷	August 9-14, 2023	November 21, 2023	February 19, 2024	TBD	TBD
A6DR ⁸	November 17 and 20-21, 2023	TBD	NA	NA	NA

Notes:

ASD: Alternative Source Demonstration

NA: not applicable

SSL: Statistically Significant Level

TBD: to be determined in 2024

¹ All samples were analyzed for Appendix III parameters listed in 40 C.F.R. § 257.94(e) and Appendix IV parameters listed in 40 C.F.R. § 257.95(g).

² The following background wells were sampled for each event: G281 and G306

³ The following compliance wells were sampled for each event: G301, G302, G303, G305, G307, G307D, G308, G310, G312, G313, G314, G314D, G315, G316

⁴ Data collected in accordance with 35 I.A.C. § 845 was included for statistical calculations performed in accordance with 40 C.F.R. § 257.95(d)(1); however, SSLs are reported semiannually per 40 C.F.R. § 257.

⁵ Analytical data received after December 31, 2023 will be reported in the 2024 Annual Groundwater Monitoring and Corrective Action Report.

⁶ A groundwater sample was not collected from compliance monitoring well G312 during the February 2023 sampling event.

⁷ A groundwater sample was not collected from compliance monitoring well G307 during the August 2023 sampling event.

⁸ Compliance monitoring well G312 was indicated as dry during November 2023 and no groundwater sample was collected.

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the groundwater monitoring program during 2023. Groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

5. KEY ACTIVITIES PLANNED FOR 2024

The following key activities are planned for 2024:

- Continuation of the Assessment Monitoring Program with semiannual sampling scheduled for the first and third quarters of 2024 (and sampling for 35 I.A.C. § 845 scheduled for the second and fourth quarters).
- Complete evaluation of analytical data from the compliance wells to determine whether an SSL of Appendix IV parameters above GWPSs has occurred.
- If an SSL is identified, potential alternative sources (*i.e.*, a source other than the CCR unit caused the SSL or that the SSL resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated.
 - If an alternative source is identified to be the cause of the SSL, a written demonstration will be completed within 90 days of SSL determination and included in the 2024 Annual Groundwater Monitoring and Corrective Action Report.
 - If an alternative source(s) is not identified to be the cause of the SSL, the applicable requirements of 40 C.F.R. §§ 257.94 through 257.98 (*e.g.*, assessment of corrective measures) as may apply in 2024 will be met, including associated recordkeeping/notifications required by 40 C.F.R. §§ 257.105 through 257.108.

6. REFERENCES

Code of Federal Regulations, Title 40, Chapter I, Subchapter I, Part 257, Subpart D, Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, effective April 17, 2015. Accessed from URL <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-I/part-257/subpart-D#page-top>.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022a. 40 C.F.R. § 257 Groundwater Monitoring Plan, Ash Pond No. 1, Coffeen Power Plant, Coffeen, Illinois. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022d. Multi-Site Data Management Plan. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022c. Multi-Site Quality Assurance Project Plan. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022b. Multi-Site Statistical Analysis Plan, 40 C.F.R. § 257. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023. Multi-Site Sampling and Analysis Plan Revision 1. October 10, 2023.

TABLES

TABLE 1
GROUNDWATER ELEVATION DATA
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
G281	Background	UA	02/13/2023	4.63	621.73
G281	Background	UA	04/30/2023	6.44	619.91
G281	Background	UA	05/30/2023	6.64	619.71
G281	Background	UA	08/08/2023	6.39	619.97
G281	Background	UA	10/24/2023	8.64	617.72
G281	Background	UA	11/13/2023	8.59	617.77
G281	Background	UA	12/18/2023	6.83	619.53
G301	Compliance	UA	02/13/2023	5.30	617.35
G301	Compliance	UA	06/08/2023	7.70	614.94
G301	Compliance	UA	07/08/2023	7.82	614.82
G301	Compliance	UA	08/08/2023	8.11	614.54
G301	Compliance	UA	10/24/2023	8.51	614.14
G301	Compliance	UA	11/13/2023	8.43	614.22
G301	Compliance	UA	12/18/2023	8.00	614.65
G302	Compliance	UA	02/13/2023	7.16	612.88
G302	Compliance	UA	04/30/2023	9.10	610.93
G302	Compliance	UA	05/30/2023	11.04	608.99
G302	Compliance	UA	06/08/2023	11.57	608.46
G302	Compliance	UA	07/08/2023	12.07	607.96
G302	Compliance	UA	08/08/2023	12.68	607.36
G302	Compliance	UA	09/25/2023	13.12	606.92
G302	Compliance	UA	11/13/2023	13.16	606.88
G302	Compliance	UA	12/18/2023	12.47	607.57
G303	Compliance	UA	02/13/2023	4.20	617.82
G303	Compliance	UA	04/30/2023	4.62	617.39
G303	Compliance	UA	05/30/2023	5.92	616.09
G303	Compliance	UA	08/08/2023	8.40	613.62
G303	Compliance	UA	09/25/2023	9.18	612.83
G303	Compliance	UA	10/24/2023	9.71	612.31
G303	Compliance	UA	11/13/2023	9.32	612.70
G303	Compliance	UA	12/18/2023	8.22	613.80
G305	Compliance	UA	02/13/2023	6.08	619.59
G305	Compliance	UA	04/30/2023	6.59	619.07
G305	Compliance	UA	05/30/2023	7.63	618.03
G305	Compliance	UA	06/08/2023	8.35	617.31
G305	Compliance	UA	07/08/2023	8.23	617.43
G305	Compliance	UA	08/08/2023	9.19	616.48
G305	Compliance	UA	10/24/2023	9.95	615.72
G305	Compliance	UA	11/13/2023	8.50	617.17
G305	Compliance	UA	12/18/2023	8.24	617.43
G306	Background	UA	02/13/2023	5.80	620.11
G306	Background	UA	04/30/2023	6.64	619.26
G306	Background	UA	05/30/2023	8.13	617.77
G306	Background	UA	06/08/2023	9.18	616.72
G306	Background	UA	07/08/2023	8.60	617.30
G306	Background	UA	08/08/2023	9.70	616.21

TABLE 1
GROUNDWATER ELEVATION DATA
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COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
G306	Background	UA	10/24/2023	10.81	615.10
G306	Background	UA	11/13/2023	10.13	615.78
G306	Background	UA	12/18/2023	7.56	618.35
G307	Compliance	UA	02/13/2023	Above Top of Casing	Above Top of Casing
G307	Compliance	UA	08/08/2023	0.70	623.90
G307	Compliance	UA	11/13/2023	1.96	622.64
G307D	Compliance	LCU	02/13/2023	2.75	622.13
G307D	Compliance	LCU	04/30/2023	2.41	622.46
G307D	Compliance	LCU	05/30/2023	2.48	622.39
G307D	Compliance	LCU	08/08/2023	7.89	616.99
G307D	Compliance	LCU	10/24/2023	11.33	613.55
G307D	Compliance	LCU	11/13/2023	12.36	612.52
G307D	Compliance	LCU	12/18/2023	7.55	617.33
G308	Compliance	UA	02/13/2023	3.88	620.71
G308	Compliance	UA	04/30/2023	4.84	619.74
G308	Compliance	UA	05/30/2023	5.56	619.02
G308	Compliance	UA	06/08/2023	5.93	618.66
G308	Compliance	UA	07/08/2023	5.37	619.22
G308	Compliance	UA	08/08/2023	5.09	619.50
G308	Compliance	UA	09/25/2023	6.16	618.42
G308	Compliance	UA	10/24/2023	6.19	618.40
G308	Compliance	UA	11/13/2023	6.00	618.59
G308	Compliance	UA	12/18/2023	4.71	619.88
G310	Compliance	UA	02/13/2023	7.09	615.78
G310	Compliance	UA	04/30/2023	8.94	613.92
G310	Compliance	UA	05/30/2023	9.57	613.29
G310	Compliance	UA	06/08/2023	9.96	612.90
G310	Compliance	UA	08/08/2023	10.30	612.57
G310	Compliance	UA	09/25/2023	10.73	612.14
G310	Compliance	UA	10/24/2023	10.82	612.05
G310	Compliance	UA	11/13/2023	10.56	612.31
G310	Compliance	UA	12/18/2023	9.95	612.92
G312	Compliance	UA	04/30/2023	10.81	608.96
G312	Compliance	UA	05/30/2023	12.42	607.35
G312	Compliance	UA	06/08/2023	12.87	606.91
G312	Compliance	UA	07/08/2023	13.42	606.36
G312	Compliance	UA	08/08/2023	14.00	605.78
G312	Compliance	UA	10/24/2023	Dry	Dry
G312	Compliance	UA	11/13/2023	Dry	Dry
G312	Compliance	UA	12/18/2023	14.45	605.33
G313	Compliance	UA	02/13/2023	3.24	611.06
G313	Compliance	UA	08/08/2023	3.01	611.29
G313	Compliance	UA	10/24/2023	3.08	611.22
G313	Compliance	UA	11/13/2023	3.36	610.94
G313	Compliance	UA	12/18/2023	3.48	610.82
G314	Compliance	LCU	02/13/2023	6.14	607.74

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ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
G314	Compliance	LCU	04/30/2023	5.53	608.34
G314	Compliance	LCU	05/30/2023	4.81	609.06
G314	Compliance	LCU	06/08/2023	9.43	604.44
G314	Compliance	LCU	07/08/2023	5.67	608.20
G314	Compliance	LCU	08/08/2023	4.88	609.00
G314	Compliance	LCU	09/25/2023	4.96	608.92
G314	Compliance	LCU	10/24/2023	5.30	608.58
G314	Compliance	LCU	11/13/2023	5.67	608.21
G314	Compliance	LCU	12/18/2023	7.39	606.49
G314D	Compliance	DA	02/13/2023	16.40	597.30
G314D	Compliance	DA	04/30/2023	7.48	606.21
G314D	Compliance	DA	05/30/2023	6.69	607.00
G314D	Compliance	DA	06/08/2023	11.80	601.90
G314D	Compliance	DA	07/08/2023	7.25	606.45
G314D	Compliance	DA	08/08/2023	7.78	605.92
G314D	Compliance	DA	09/25/2023	8.50	605.20
G314D	Compliance	DA	10/24/2023	8.56	605.14
G314D	Compliance	DA	11/13/2023	7.97	605.73
G314D	Compliance	DA	12/18/2023	7.04	606.66
G315	Compliance	UA	02/13/2023	2.08	621.44
G315	Compliance	UA	08/08/2023	3.50	620.02
G315	Compliance	UA	10/24/2023	4.04	619.48
G315	Compliance	UA	11/13/2023	4.11	619.41
G315	Compliance	UA	12/18/2023	2.55	620.97
G316	Compliance	LCU	02/13/2023	11.53	591.06
G316	Compliance	LCU	05/30/2023	12.28	590.31
G316	Compliance	LCU	08/08/2023	11.70	590.89
G316	Compliance	LCU	10/24/2023	12.54	590.05
G316	Compliance	LCU	11/13/2023	12.46	590.13
XSG-01	Water Level	CCR	02/13/2023	5.40	630.12
XSG-01	Water Level	CCR	05/30/2023	5.45	630.07
XSG-01	Water Level	CCR	08/08/2023	6.25	629.27
XSG-01	Water Level	CCR	10/24/2023	7.02	628.50
XSG-01	Water Level	CCR	11/13/2023	10.38	625.14
XSG-01	Water Level	CCR	12/18/2023	7.04	628.48
SG-02	Water Level	SW	02/13/2023	7.25	598.62
SG-02	Water Level	SW	05/30/2023	7.47	598.40
SG-02	Water Level	SW	10/24/2023	7.49	598.38
SG-02	Water Level	SW	11/13/2023	7.36	598.51
SG-02	Water Level	SW	12/18/2023	7.31	598.56
SG-03	Water Level	SW	02/13/2023	9.55	585.39
SG-03	Water Level	SW	05/30/2023	9.85	585.09
SG-03	Water Level	SW	08/08/2023	9.65	585.29
SG-03	Water Level	SW	10/24/2023	8.96	585.98
SG-03	Water Level	SW	11/13/2023	9.71	585.23
SG-03	Water Level	SW	12/18/2023	8.92	586.02

TABLE 1
GROUNDWATER ELEVATION DATA
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
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COFFEEN, IL

Notes:
Only wells with groundwater elevations measured are included.
BMP = below measuring point
NAVD88 = North American Vertical Datum of 1988
Monitored Unit Abbreviations:

- CCR = coal combustion residuals
- DA = deep aquifer
- LCU = lower confining unit
- SW = surface water
- UA = uppermost aquifer

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TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G281	UA	Background	02/16/2023	A6	Boron, total	mg/L	0.0210	NA	NA
G281	UA	Background	06/08/2023	A6R	Boron, total	mg/L	0.0071 U	NA	NA
G281	UA	Background	08/14/2023	A6D	Boron, total	mg/L	0.0092 U	NA	NA
G281	UA	Background	11/20/2023	A6DR	Boron, total	mg/L	0.0092 U	NA	NA
G281	UA	Background	02/16/2023	A6	Calcium, total	mg/L	130	NA	NA
G281	UA	Background	06/08/2023	A6R	Calcium, total	mg/L	130	NA	NA
G281	UA	Background	08/14/2023	A6D	Calcium, total	mg/L	137	NA	NA
G281	UA	Background	11/20/2023	A6DR	Calcium, total	mg/L	152	NA	NA
G281	UA	Background	02/16/2023	A6	Chloride, total	mg/L	76.0	NA	NA
G281	UA	Background	06/08/2023	A6R	Chloride, total	mg/L	75.0	NA	NA
G281	UA	Background	08/14/2023	A6D	Chloride, total	mg/L	88.0	NA	NA
G281	UA	Background	11/20/2023	A6DR	Chloride, total	mg/L	74.0	NA	NA
G281	UA	Background	02/16/2023	A6	Fluoride, total	mg/L	0.234 J	NA	NA
G281	UA	Background	06/08/2023	A6R	Fluoride, total	mg/L	0.253	NA	NA
G281	UA	Background	08/14/2023	A6D	Fluoride, total	mg/L	0.300 J+	NA	NA
G281	UA	Background	11/20/2023	A6DR	Fluoride, total	mg/L	0.360	NA	NA
G281	UA	Background	02/16/2023	A6	pH (field)	SU	7.2	NA	NA
G281	UA	Background	06/08/2023	A6R	pH (field)	SU	6.8	NA	NA
G281	UA	Background	08/14/2023	A6D	pH (field)	SU	6.8	NA	NA
G281	UA	Background	11/20/2023	A6DR	pH (field)	SU	6.9	NA	NA
G281	UA	Background	02/16/2023	A6	Sulfate, total	mg/L	270	NA	NA
G281	UA	Background	06/08/2023	A6R	Sulfate, total	mg/L	140	NA	NA
G281	UA	Background	08/14/2023	A6D	Sulfate, total	mg/L	268	NA	NA
G281	UA	Background	11/20/2023	A6DR	Sulfate, total	mg/L	293	NA	NA
G281	UA	Background	02/16/2023	A6	Total Dissolved Solids	mg/L	980	NA	NA
G281	UA	Background	06/08/2023	A6R	Total Dissolved Solids	mg/L	1,000	NA	NA
G281	UA	Background	08/14/2023	A6D	Total Dissolved Solids	mg/L	930	NA	NA
G281	UA	Background	11/20/2023	A6DR	Total Dissolved Solids	mg/L	958	NA	NA
G306	UA	Background	02/16/2023	A6	Boron, total	mg/L	2.40	NA	NA
G306	UA	Background	06/05/2023	A6R	Boron, total	mg/L	2.40	NA	NA
G306	UA	Background	08/10/2023	A6D	Boron, total	mg/L	2.74	NA	NA
G306	UA	Background	11/17/2023	A6DR	Boron, total	mg/L	2.22	NA	NA
G306	UA	Background	02/16/2023	A6	Calcium, total	mg/L	110	NA	NA
G306	UA	Background	06/05/2023	A6R	Calcium, total	mg/L	110	NA	NA
G306	UA	Background	08/10/2023	A6D	Calcium, total	mg/L	81.3	NA	NA
G306	UA	Background	11/17/2023	A6DR	Calcium, total	mg/L	85.5	NA	NA
G306	UA	Background	02/16/2023	A6	Chloride, total	mg/L	1.60	NA	NA
G306	UA	Background	06/05/2023	A6R	Chloride, total	mg/L	0.96 U	NA	NA
G306	UA	Background	08/10/2023	A6D	Chloride, total	mg/L	1 J	NA	NA
G306	UA	Background	11/17/2023	A6DR	Chloride, total	mg/L	2 J	NA	NA
G306	UA	Background	02/16/2023	A6	Fluoride, total	mg/L	0.04 U	NA	NA
G306	UA	Background	06/05/2023	A6R	Fluoride, total	mg/L	0.203 J	NA	NA
G306	UA	Background	08/10/2023	A6D	Fluoride, total	mg/L	0.180 J+	NA	NA
G306	UA	Background	11/17/2023	A6DR	Fluoride, total	mg/L	0.180	NA	NA
G306	UA	Background	02/16/2023	A6	pH (field)	SU	7.0	NA	NA
G306	UA	Background	06/05/2023	A6R	pH (field)	SU	6.9	NA	NA

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G306	UA	Background	08/10/2023	A6D	pH (field)	SU	6.2	NA	NA
G306	UA	Background	11/17/2023	A6DR	pH (field)	SU	6.2	NA	NA
G306	UA	Background	02/16/2023	A6	Sulfate, total	mg/L	140	NA	NA
G306	UA	Background	06/05/2023	A6R	Sulfate, total	mg/L	130	NA	NA
G306	UA	Background	08/10/2023	A6D	Sulfate, total	mg/L	141	NA	NA
G306	UA	Background	11/17/2023	A6DR	Sulfate, total	mg/L	141	NA	NA
G306	UA	Background	02/16/2023	A6	Total Dissolved Solids	mg/L	560	NA	NA
G306	UA	Background	06/05/2023	A6R	Total Dissolved Solids	mg/L	520	NA	NA
G306	UA	Background	08/10/2023	A6D	Total Dissolved Solids	mg/L	455	NA	NA
G306	UA	Background	11/17/2023	A6DR	Total Dissolved Solids	mg/L	550	NA	NA
G301	UA	Compliance	02/15/2023	A6	Boron, total	mg/L	1.90	2.90	No Exceedance
G301	UA	Compliance	06/06/2023	A6R	Boron, total	mg/L	2.50	2.90	No Exceedance
G301	UA	Compliance	08/09/2023	A6D	Boron, total	mg/L	2.08	2.90	TBD
G301	UA	Compliance	11/20/2023	A6DR	Boron, total	mg/L	2.80	2.90	TBD
G301	UA	Compliance	02/15/2023	A6	Calcium, total	mg/L	120	153	No Exceedance
G301	UA	Compliance	06/06/2023	A6R	Calcium, total	mg/L	110	153	No Exceedance
G301	UA	Compliance	08/09/2023	A6D	Calcium, total	mg/L	113	153	TBD
G301	UA	Compliance	11/20/2023	A6DR	Calcium, total	mg/L	123	153	TBD
G301	UA	Compliance	02/15/2023	A6	Chloride, total	mg/L	13.0	75.0	No Exceedance
G301	UA	Compliance	06/06/2023	A6R	Chloride, total	mg/L	13.0	75.0	No Exceedance
G301	UA	Compliance	08/09/2023	A6D	Chloride, total	mg/L	12.0	75.0	TBD
G301	UA	Compliance	11/20/2023	A6DR	Chloride, total	mg/L	12.0	75.0	TBD
G301	UA	Compliance	02/15/2023	A6	Fluoride, total	mg/L	0.04 U	0.470	No Exceedance
G301	UA	Compliance	06/06/2023	A6R	Fluoride, total	mg/L	0.197 J	0.470	No Exceedance
G301	UA	Compliance	08/09/2023	A6D	Fluoride, total	mg/L	0.310 J+	0.470	TBD
G301	UA	Compliance	11/20/2023	A6DR	Fluoride, total	mg/L	0.310	0.470	TBD
G301	UA	Compliance	02/15/2023	A6	pH (field)	SU	7.0	6.5/7.1	No Exceedance
G301	UA	Compliance	06/06/2023	A6R	pH (field)	SU	6.8	6.5/7.1	No Exceedance
G301	UA	Compliance	08/09/2023	A6D	pH (field)	SU	6.4	6.5/7.1	TBD
G301	UA	Compliance	11/20/2023	A6DR	pH (field)	SU	6.4	6.5/7.1	TBD
G301	UA	Compliance	02/15/2023	A6	Sulfate, total	mg/L	560	700	No Exceedance
G301	UA	Compliance	06/06/2023	A6R	Sulfate, total	mg/L	540	700	No Exceedance
G301	UA	Compliance	08/09/2023	A6D	Sulfate, total	mg/L	513	700	TBD
G301	UA	Compliance	11/20/2023	A6DR	Sulfate, total	mg/L	535	700	TBD
G301	UA	Compliance	02/15/2023	A6	Total Dissolved Solids	mg/L	1,100	893	Confirmed
G301	UA	Compliance	06/06/2023	A6R	Total Dissolved Solids	mg/L	900	893	Confirmed
G301	UA	Compliance	08/09/2023	A6D	Total Dissolved Solids	mg/L	1,000	893	TBD
G301	UA	Compliance	11/20/2023	A6DR	Total Dissolved Solids	mg/L	1,020	893	TBD
G302	UA	Compliance	02/15/2023	A6	Boron, total	mg/L	1.90	2.90	No Exceedance
G302	UA	Compliance	05/31/2023	A6R	Boron, total	mg/L	2.10	2.90	No Exceedance
G302	UA	Compliance	08/09/2023	A6D	Boron, total	mg/L	1.93	2.90	TBD
G302	UA	Compliance	11/20/2023	A6DR	Boron, total	mg/L	2.96	2.90	TBD
G302	UA	Compliance	02/15/2023	A6	Calcium, total	mg/L	180	153	Confirmed
G302	UA	Compliance	05/31/2023	A6R	Calcium, total	mg/L	160	153	Confirmed
G302	UA	Compliance	08/09/2023	A6D	Calcium, total	mg/L	157	153	TBD
G302	UA	Compliance	11/20/2023	A6DR	Calcium, total	mg/L	182	153	TBD

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G302	UA	Compliance	02/15/2023	A6	Chloride, total	mg/L	23.0	75.0	No Exceedance
G302	UA	Compliance	05/31/2023	A6R	Chloride, total	mg/L	18.0 J	75.0	No Exceedance
G302	UA	Compliance	08/09/2023	A6D	Chloride, total	mg/L	9.00	75.0	TBD
G302	UA	Compliance	11/20/2023	A6DR	Chloride, total	mg/L	18.0	75.0	TBD
G302	UA	Compliance	02/15/2023	A6	Fluoride, total	mg/L	0.04 U	0.470	No Exceedance
G302	UA	Compliance	05/31/2023	A6R	Fluoride, total	mg/L	0.122 J	0.470	No Exceedance
G302	UA	Compliance	08/09/2023	A6D	Fluoride, total	mg/L	0.280 J+	0.470	TBD
G302	UA	Compliance	11/20/2023	A6DR	Fluoride, total	mg/L	0.280	0.470	TBD
G302	UA	Compliance	02/15/2023	A6	pH (field)	SU	6.8	6.5/7.1	No Exceedance
G302	UA	Compliance	05/31/2023	A6R	pH (field)	SU	7.0	6.5/7.1	No Exceedance
G302	UA	Compliance	08/09/2023	A6D	pH (field)	SU	6.5	6.5/7.1	TBD
G302	UA	Compliance	11/20/2023	A6DR	pH (field)	SU	6.5	6.5/7.1	TBD
G302	UA	Compliance	02/15/2023	A6	Sulfate, total	mg/L	440	700	No Exceedance
G302	UA	Compliance	05/31/2023	A6R	Sulfate, total	mg/L	450	700	No Exceedance
G302	UA	Compliance	08/09/2023	A6D	Sulfate, total	mg/L	356	700	TBD
G302	UA	Compliance	11/20/2023	A6DR	Sulfate, total	mg/L	423	700	TBD
G302	UA	Compliance	02/15/2023	A6	Total Dissolved Solids	mg/L	1,200	893	Confirmed
G302	UA	Compliance	05/31/2023	A6R	Total Dissolved Solids	mg/L	1,200	893	Confirmed
G302	UA	Compliance	08/09/2023	A6D	Total Dissolved Solids	mg/L	998	893	TBD
G302	UA	Compliance	11/20/2023	A6DR	Total Dissolved Solids	mg/L	1,190	893	TBD
G303	UA	Compliance	02/15/2023	A6	Boron, total	mg/L	2.10	2.90	No Exceedance
G303	UA	Compliance	05/31/2023	A6R	Boron, total	mg/L	1.80	2.90	No Exceedance
G303	UA	Compliance	08/09/2023	A6D	Boron, total	mg/L	1.95	2.90	TBD
G303	UA	Compliance	11/21/2023	A6DR	Boron, total	mg/L	2.98	2.90	TBD
G303	UA	Compliance	02/15/2023	A6	Calcium, total	mg/L	170	153	Confirmed
G303	UA	Compliance	05/31/2023	A6R	Calcium, total	mg/L	180	153	Confirmed
G303	UA	Compliance	08/09/2023	A6D	Calcium, total	mg/L	190	153	TBD
G303	UA	Compliance	11/21/2023	A6DR	Calcium, total	mg/L	207	153	TBD
G303	UA	Compliance	02/15/2023	A6	Chloride, total	mg/L	28.0	75.0	No Exceedance
G303	UA	Compliance	05/31/2023	A6R	Chloride, total	mg/L	25.0	75.0	No Exceedance
G303	UA	Compliance	08/09/2023	A6D	Chloride, total	mg/L	27.0	75.0	TBD
G303	UA	Compliance	11/21/2023	A6DR	Chloride, total	mg/L	27.0	75.0	TBD
G303	UA	Compliance	02/15/2023	A6	Fluoride, total	mg/L	0.269	0.470	No Exceedance
G303	UA	Compliance	05/31/2023	A6R	Fluoride, total	mg/L	0.0653 J	0.470	No Exceedance
G303	UA	Compliance	08/09/2023	A6D	Fluoride, total	mg/L	0.270 J+	0.470	TBD
G303	UA	Compliance	11/21/2023	A6DR	Fluoride, total	mg/L	0.280	0.470	TBD
G303	UA	Compliance	02/15/2023	A6	pH (field)	SU	6.5	6.5/7.1	No Exceedance
G303	UA	Compliance	05/31/2023	A6R	pH (field)	SU	7.1	6.5/7.1	No Exceedance
G303	UA	Compliance	08/09/2023	A6D	pH (field)	SU	6.8	6.5/7.1	TBD
G303	UA	Compliance	11/21/2023	A6DR	pH (field)	SU	6.6	6.5/7.1	TBD
G303	UA	Compliance	02/15/2023	A6	Sulfate, total	mg/L	590	700	No Exceedance
G303	UA	Compliance	05/31/2023	A6R	Sulfate, total	mg/L	740	700	Exceedance Not Confirmed
G303	UA	Compliance	08/09/2023	A6D	Sulfate, total	mg/L	723	700	TBD
G303	UA	Compliance	11/21/2023	A6DR	Sulfate, total	mg/L	721	700	TBD
G303	UA	Compliance	02/15/2023	A6	Total Dissolved Solids	mg/L	1,500 J	893	Confirmed
G303	UA	Compliance	05/31/2023	A6R	Total Dissolved Solids	mg/L	1,800 J	893	Confirmed

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G303	UA	Compliance	08/09/2023	A6D	Total Dissolved Solids	mg/L	1,620	893	TBD
G303	UA	Compliance	11/21/2023	A6DR	Total Dissolved Solids	mg/L	1,520	893	TBD
--	NA	Compliance	--	A6D	Boron, total	mg/L	--	2.90	TBD
--	NA	Compliance	--	A6D	Calcium, total	mg/L	--	153	TBD
--	NA	Compliance	--	A6D	Chloride, total	mg/L	--	75.0	TBD
--	NA	Compliance	--	A6D	Fluoride, total	mg/L	--	0.470	TBD
--	NA	Compliance	--	A6D	pH (field)	SU	--	6.5/7.1	TBD
--	NA	Compliance	--	A6D	Sulfate, total	mg/L	--	700	TBD
--	NA	Compliance	--	A6D	Total Dissolved Solids	mg/L	--	893	TBD
G305	UA	Compliance	02/15/2023	A6	Boron, total	mg/L	2.00	2.90	No Exceedance
G305	UA	Compliance	06/06/2023	A6R	Boron, total	mg/L	1.90	2.90	No Exceedance
G305	UA	Compliance	08/10/2023	A6D	Boron, total	mg/L	2.66	2.90	TBD
G305	UA	Compliance	11/17/2023	A6DR	Boron, total	mg/L	2.44	2.90	TBD
G305	UA	Compliance	02/15/2023	A6	Calcium, total	mg/L	200	153	Confirmed
G305	UA	Compliance	06/06/2023	A6R	Calcium, total	mg/L	180	153	Confirmed
G305	UA	Compliance	08/10/2023	A6D	Calcium, total	mg/L	188	153	TBD
G305	UA	Compliance	11/17/2023	A6DR	Calcium, total	mg/L	177	153	TBD
G305	UA	Compliance	02/15/2023	A6	Chloride, total	mg/L	22.0	75.0	No Exceedance
G305	UA	Compliance	06/06/2023	A6R	Chloride, total	mg/L	23.0	75.0	No Exceedance
G305	UA	Compliance	08/10/2023	A6D	Chloride, total	mg/L	21.0	75.0	TBD
G305	UA	Compliance	11/17/2023	A6DR	Chloride, total	mg/L	17.0	75.0	TBD
G305	UA	Compliance	02/15/2023	A6	Fluoride, total	mg/L	0.302	0.470	No Exceedance
G305	UA	Compliance	06/06/2023	A6R	Fluoride, total	mg/L	0.258	0.470	No Exceedance
G305	UA	Compliance	08/10/2023	A6D	Fluoride, total	mg/L	0.490 J+	0.470	TBD
G305	UA	Compliance	11/17/2023	A6DR	Fluoride, total	mg/L	0.530	0.470	TBD
G305	UA	Compliance	02/15/2023	A6	pH (field)	SU	7.3	6.5/7.1	Confirmed
G305	UA	Compliance	06/06/2023	A6R	pH (field)	SU	7.3	6.5/7.1	Confirmed
G305	UA	Compliance	08/10/2023	A6D	pH (field)	SU	7.3	6.5/7.1	TBD
G305	UA	Compliance	11/17/2023	A6DR	pH (field)	SU	6.9	6.5/7.1	TBD
G305	UA	Compliance	02/15/2023	A6	Sulfate, total	mg/L	980	700	Confirmed
G305	UA	Compliance	06/06/2023	A6R	Sulfate, total	mg/L	910	700	Confirmed
G305	UA	Compliance	08/10/2023	A6D	Sulfate, total	mg/L	863	700	TBD
G305	UA	Compliance	11/17/2023	A6DR	Sulfate, total	mg/L	843	700	TBD
G305	UA	Compliance	02/15/2023	A6	Total Dissolved Solids	mg/L	1,800	893	Confirmed
G305	UA	Compliance	06/06/2023	A6R	Total Dissolved Solids	mg/L	1,500	893	Confirmed
G305	UA	Compliance	08/10/2023	A6D	Total Dissolved Solids	mg/L	1,580	893	TBD
G305	UA	Compliance	11/17/2023	A6DR	Total Dissolved Solids	mg/L	1,530	893	TBD
G307	UA	Compliance	02/15/2023	A6	Boron, total	mg/L	2.00	2.90	No Exceedance
G307	UA	Compliance	06/05/2023	A6R	Boron, total	mg/L	2.00	2.90	No Exceedance
G307	UA	Compliance	11/21/2023	A6DR	Boron, total	mg/L	2.35	2.90	TBD
G307	UA	Compliance	02/15/2023	A6	Calcium, total	mg/L	170	153	Exceedance Not Confirmed
G307	UA	Compliance	06/05/2023	A6R	Calcium, total	mg/L	150	153	No Exceedance
G307	UA	Compliance	11/21/2023	A6DR	Calcium, total	mg/L	168	153	TBD
G307	UA	Compliance	02/15/2023	A6	Chloride, total	mg/L	12.0	75.0	No Exceedance
G307	UA	Compliance	06/05/2023	A6R	Chloride, total	mg/L	9.20	75.0	No Exceedance
G307	UA	Compliance	11/21/2023	A6DR	Chloride, total	mg/L	11.0	75.0	TBD

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G307	UA	Compliance	02/15/2023	A6	Fluoride, total	mg/L	0.299	0.470	No Exceedance
G307	UA	Compliance	06/05/2023	A6R	Fluoride, total	mg/L	0.325	0.470	No Exceedance
G307	UA	Compliance	11/21/2023	A6DR	Fluoride, total	mg/L	0.400	0.470	TBD
G307	UA	Compliance	02/15/2023	A6	pH (field)	SU	7.2	6.5/7.1	Confirmed
G307	UA	Compliance	06/05/2023	A6R	pH (field)	SU	7.3	6.5/7.1	Confirmed
G307	UA	Compliance	11/21/2023	A6DR	pH (field)	SU	6.8	6.5/7.1	TBD
G307	UA	Compliance	02/15/2023	A6	Sulfate, total	mg/L	600	700	No Exceedance
G307	UA	Compliance	06/05/2023	A6R	Sulfate, total	mg/L	530	700	No Exceedance
G307	UA	Compliance	11/21/2023	A6DR	Sulfate, total	mg/L	490	700	TBD
G307	UA	Compliance	02/15/2023	A6	Total Dissolved Solids	mg/L	1,200	893	Confirmed
G307	UA	Compliance	06/05/2023	A6R	Total Dissolved Solids	mg/L	980	893	Confirmed
G307	UA	Compliance	11/21/2023	A6DR	Total Dissolved Solids	mg/L	915 J	893	TBD
G307D	LCU	Compliance	02/15/2023	A6	Boron, total	mg/L	1.20	2.90	No Exceedance
G307D	LCU	Compliance	06/05/2023	A6R	Boron, total	mg/L	1.50	2.90	No Exceedance
G307D	LCU	Compliance	08/10/2023	A6D	Boron, total	mg/L	2.54	2.90	TBD
G307D	LCU	Compliance	11/17/2023	A6DR	Boron, total	mg/L	1.01	2.90	TBD
G307D	LCU	Compliance	02/15/2023	A6	Calcium, total	mg/L	170	153	Exceedance Not Confirmed
G307D	LCU	Compliance	06/05/2023	A6R	Calcium, total	mg/L	150	153	No Exceedance
G307D	LCU	Compliance	08/10/2023	A6D	Calcium, total	mg/L	136	153	TBD
G307D	LCU	Compliance	11/17/2023	A6DR	Calcium, total	mg/L	152	153	TBD
G307D	LCU	Compliance	02/15/2023	A6	Chloride, total	mg/L	17.0	75.0	No Exceedance
G307D	LCU	Compliance	06/05/2023	A6R	Chloride, total	mg/L	16.0	75.0	No Exceedance
G307D	LCU	Compliance	08/10/2023	A6D	Chloride, total	mg/L	14.0	75.0	TBD
G307D	LCU	Compliance	11/17/2023	A6DR	Chloride, total	mg/L	19.0	75.0	TBD
G307D	LCU	Compliance	02/15/2023	A6	Fluoride, total	mg/L	0.570	0.470	Confirmed
G307D	LCU	Compliance	06/05/2023	A6R	Fluoride, total	mg/L	0.579	0.470	Confirmed
G307D	LCU	Compliance	08/10/2023	A6D	Fluoride, total	mg/L	0.600 J+	0.470	TBD
G307D	LCU	Compliance	11/17/2023	A6DR	Fluoride, total	mg/L	0.900	0.470	TBD
G307D	LCU	Compliance	02/15/2023	A6	pH (field)	SU	7.2	6.5/7.1	Confirmed
G307D	LCU	Compliance	06/05/2023	A6R	pH (field)	SU	7.3	6.5/7.1	Confirmed
G307D	LCU	Compliance	08/10/2023	A6D	pH (field)	SU	7.2	6.5/7.1	TBD
G307D	LCU	Compliance	11/17/2023	A6DR	pH (field)	SU	7.0	6.5/7.1	TBD
G307D	LCU	Compliance	02/15/2023	A6	Sulfate, total	mg/L	660	700	No Exceedance
G307D	LCU	Compliance	06/05/2023	A6R	Sulfate, total	mg/L	610	700	No Exceedance
G307D	LCU	Compliance	08/10/2023	A6D	Sulfate, total	mg/L	589	700	TBD
G307D	LCU	Compliance	11/17/2023	A6DR	Sulfate, total	mg/L	537	700	TBD
G307D	LCU	Compliance	02/15/2023	A6	Total Dissolved Solids	mg/L	1,200	893	Confirmed
G307D	LCU	Compliance	06/05/2023	A6R	Total Dissolved Solids	mg/L	1,100	893	Confirmed
G307D	LCU	Compliance	08/10/2023	A6D	Total Dissolved Solids	mg/L	1,080	893	TBD
G307D	LCU	Compliance	11/17/2023	A6DR	Total Dissolved Solids	mg/L	1,040	893	TBD
G308	UA	Compliance	02/16/2023	A6	Boron, total	mg/L	2.40	2.90	No Exceedance
G308	UA	Compliance	06/01/2023	A6R	Boron, total	mg/L	2.70	2.90	No Exceedance
G308	UA	Compliance	08/10/2023	A6D	Boron, total	mg/L	2.64	2.90	TBD
G308	UA	Compliance	11/17/2023	A6DR	Boron, total	mg/L	2.88	2.90	TBD
G308	UA	Compliance	02/16/2023	A6	Calcium, total	mg/L	190	153	Confirmed
G308	UA	Compliance	06/01/2023	A6R	Calcium, total	mg/L	200	153	Confirmed

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G308	UA	Compliance	08/10/2023	A6D	Calcium, total	mg/L	196	153	TBD
G308	UA	Compliance	11/17/2023	A6DR	Calcium, total	mg/L	189	153	TBD
G308	UA	Compliance	02/16/2023	A6	Chloride, total	mg/L	240 U	75.0	Exceedance Not Confirmed
G308	UA	Compliance	06/01/2023	A6R	Chloride, total	mg/L	14.0	75.0	No Exceedance
G308	UA	Compliance	08/10/2023	A6D	Chloride, total	mg/L	10.0	75.0	TBD
G308	UA	Compliance	11/17/2023	A6DR	Chloride, total	mg/L	10.0	75.0	TBD
G308	UA	Compliance	02/16/2023	A6	Fluoride, total	mg/L	0.503	0.470	Exceedance Not Confirmed
G308	UA	Compliance	06/01/2023	A6R	Fluoride, total	mg/L	0.464	0.470	No Exceedance
G308	UA	Compliance	08/10/2023	A6D	Fluoride, total	mg/L	0.640	0.470	TBD
G308	UA	Compliance	11/17/2023	A6DR	Fluoride, total	mg/L	0.660	0.470	TBD
G308	UA	Compliance	02/16/2023	A6	pH (field)	SU	7.2	6.5/7.1	Confirmed
G308	UA	Compliance	06/01/2023	A6R	pH (field)	SU	7.3	6.5/7.1	Confirmed
G308	UA	Compliance	08/10/2023	A6D	pH (field)	SU	7.3	6.5/7.1	TBD
G308	UA	Compliance	11/17/2023	A6DR	pH (field)	SU	6.9	6.5/7.1	TBD
G308	UA	Compliance	02/16/2023	A6	Sulfate, total	mg/L	960	700	Confirmed
G308	UA	Compliance	06/01/2023	A6R	Sulfate, total	mg/L	1,000	700	Confirmed
G308	UA	Compliance	08/10/2023	A6D	Sulfate, total	mg/L	996	700	TBD
G308	UA	Compliance	11/17/2023	A6DR	Sulfate, total	mg/L	936	700	TBD
G308	UA	Compliance	02/16/2023	A6	Total Dissolved Solids	mg/L	1,800	893	Confirmed
G308	UA	Compliance	06/01/2023	A6R	Total Dissolved Solids	mg/L	1,800	893	Confirmed
G308	UA	Compliance	08/10/2023	A6D	Total Dissolved Solids	mg/L	1,760	893	TBD
G308	UA	Compliance	11/17/2023	A6DR	Total Dissolved Solids	mg/L	1,640	893	TBD
G310	UA	Compliance	02/16/2023	A6	Boron, total	mg/L	1.70	2.90	No Exceedance
G310	UA	Compliance	06/01/2023	A6R	Boron, total	mg/L	1.70	2.90	No Exceedance
G310	UA	Compliance	08/09/2023	A6D	Boron, total	mg/L	1.95	2.90	TBD
G310	UA	Compliance	11/20/2023	A6DR	Boron, total	mg/L	2.08	2.90	TBD
G310	UA	Compliance	02/16/2023	A6	Calcium, total	mg/L	130	153	No Exceedance
G310	UA	Compliance	06/01/2023	A6R	Calcium, total	mg/L	150	153	No Exceedance
G310	UA	Compliance	08/09/2023	A6D	Calcium, total	mg/L	158	153	TBD
G310	UA	Compliance	11/20/2023	A6DR	Calcium, total	mg/L	159	153	TBD
G310	UA	Compliance	02/16/2023	A6	Chloride, total	mg/L	13.0	75.0	No Exceedance
G310	UA	Compliance	06/01/2023	A6R	Chloride, total	mg/L	14.0	75.0	No Exceedance
G310	UA	Compliance	08/09/2023	A6D	Chloride, total	mg/L	14.0	75.0	TBD
G310	UA	Compliance	11/20/2023	A6DR	Chloride, total	mg/L	13.0	75.0	TBD
G310	UA	Compliance	02/16/2023	A6	Fluoride, total	mg/L	0.280	0.470	No Exceedance
G310	UA	Compliance	06/01/2023	A6R	Fluoride, total	mg/L	0.226 J	0.470	No Exceedance
G310	UA	Compliance	08/09/2023	A6D	Fluoride, total	mg/L	0.320 J+	0.470	TBD
G310	UA	Compliance	11/20/2023	A6DR	Fluoride, total	mg/L	0.330	0.470	TBD
G310	UA	Compliance	02/16/2023	A6	pH (field)	SU	7.2	6.5/7.1	Confirmed
G310	UA	Compliance	06/01/2023	A6R	pH (field)	SU	7.2	6.5/7.1	Confirmed
G310	UA	Compliance	08/09/2023	A6D	pH (field)	SU	6.8	6.5/7.1	TBD
G310	UA	Compliance	11/20/2023	A6DR	pH (field)	SU	6.8	6.5/7.1	TBD
G310	UA	Compliance	02/16/2023	A6	Sulfate, total	mg/L	550	700	No Exceedance
G310	UA	Compliance	06/01/2023	A6R	Sulfate, total	mg/L	620	700	No Exceedance
G310	UA	Compliance	08/09/2023	A6D	Sulfate, total	mg/L	611	700	TBD

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G310	UA	Compliance	11/20/2023	A6DR	Sulfate, total	mg/L	636	700	TBD
G310	UA	Compliance	02/16/2023	A6	Total Dissolved Solids	mg/L	1,100	893	Confirmed
G310	UA	Compliance	06/01/2023	A6R	Total Dissolved Solids	mg/L	1,100	893	Confirmed
G310	UA	Compliance	08/09/2023	A6D	Total Dissolved Solids	mg/L	1,160	893	TBD
G310	UA	Compliance	11/20/2023	A6DR	Total Dissolved Solids	mg/L	1,210	893	TBD
G312	UA	Compliance	--	A6	Boron, total	mg/L	--	2.90	--
G312	UA	Compliance	06/01/2023	A6R	Boron, total	mg/L	1.30	2.90	No Exceedance
G312	UA	Compliance	08/09/2023	A6D	Boron, total	mg/L	3.51	2.90	TBD
G312	UA	Compliance	--	A6	Calcium, total	mg/L	--	153	--
G312	UA	Compliance	06/01/2023	A6R	Calcium, total	mg/L	160	153	Confirmed
G312	UA	Compliance	08/09/2023	A6D	Calcium, total	mg/L	242	153	TBD
G312	UA	Compliance	--	A6	Chloride, total	mg/L	--	75.0	--
G312	UA	Compliance	06/01/2023	A6R	Chloride, total	mg/L	23.0	75.0	No Exceedance
G312	UA	Compliance	08/09/2023	A6D	Chloride, total	mg/L	31.0	75.0	TBD
G312	UA	Compliance	--	A6	Fluoride, total	mg/L	--	0.470	--
G312	UA	Compliance	06/01/2023	A6R	Fluoride, total	mg/L	0.102 J	0.470	No Exceedance
G312	UA	Compliance	08/09/2023	A6D	Fluoride, total	mg/L	0.220 J+	0.470	TBD
G312	UA	Compliance	--	A6	pH (field)	SU	--	6.5/7.1	--
G312	UA	Compliance	06/01/2023	A6R	pH (field)	SU	6.5	6.5/7.1	No Exceedance
G312	UA	Compliance	08/09/2023	A6D	pH (field)	SU	6.1	6.5/7.1	TBD
G312	UA	Compliance	--	A6	Sulfate, total	mg/L	--	700	--
G312	UA	Compliance	06/01/2023	A6R	Sulfate, total	mg/L	750	700	Confirmed
G312	UA	Compliance	08/09/2023	A6D	Sulfate, total	mg/L	965	700	TBD
G312	UA	Compliance	--	A6	Total Dissolved Solids	mg/L	--	893	--
G312	UA	Compliance	06/01/2023	A6R	Total Dissolved Solids	mg/L	1,700	893	Confirmed
G312	UA	Compliance	08/09/2023	A6D	Total Dissolved Solids	mg/L	2,010	893	TBD
G313	UA	Compliance	02/16/2023	A6	Boron, total	mg/L	3.20	2.90	Confirmed
G313	UA	Compliance	06/06/2023	A6R	Boron, total	mg/L	3.30	2.90	Confirmed
G313	UA	Compliance	08/09/2023	A6D	Boron, total	mg/L	3.63	2.90	TBD
G313	UA	Compliance	11/20/2023	A6DR	Boron, total	mg/L	5.23	2.90	TBD
G313	UA	Compliance	02/16/2023	A6	Calcium, total	mg/L	190	153	Confirmed
G313	UA	Compliance	06/06/2023	A6R	Calcium, total	mg/L	200	153	Confirmed
G313	UA	Compliance	08/09/2023	A6D	Calcium, total	mg/L	200	153	TBD
G313	UA	Compliance	11/20/2023	A6DR	Calcium, total	mg/L	211	153	TBD
G313	UA	Compliance	02/16/2023	A6	Chloride, total	mg/L	20.0	75.0	No Exceedance
G313	UA	Compliance	06/06/2023	A6R	Chloride, total	mg/L	23.0	75.0	No Exceedance
G313	UA	Compliance	08/09/2023	A6D	Chloride, total	mg/L	22.0	75.0	TBD
G313	UA	Compliance	11/20/2023	A6DR	Chloride, total	mg/L	20.0	75.0	TBD
G313	UA	Compliance	02/16/2023	A6	Fluoride, total	mg/L	0.254	0.470	No Exceedance
G313	UA	Compliance	06/06/2023	A6R	Fluoride, total	mg/L	0.166 J	0.470	No Exceedance
G313	UA	Compliance	08/09/2023	A6D	Fluoride, total	mg/L	0.320 J+	0.470	TBD
G313	UA	Compliance	11/20/2023	A6DR	Fluoride, total	mg/L	0.340	0.470	TBD
G313	UA	Compliance	02/16/2023	A6	pH (field)	SU	6.9	6.5/7.1	No Exceedance
G313	UA	Compliance	06/06/2023	A6R	pH (field)	SU	6.9	6.5/7.1	No Exceedance
G313	UA	Compliance	08/09/2023	A6D	pH (field)	SU	6.7	6.5/7.1	TBD
G313	UA	Compliance	11/20/2023	A6DR	pH (field)	SU	6.7	6.5/7.1	TBD

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G313	UA	Compliance	02/16/2023	A6	Sulfate, total	mg/L	690	700	No Exceedance
G313	UA	Compliance	06/06/2023	A6R	Sulfate, total	mg/L	720	700	Exceedance Not Confirmed
G313	UA	Compliance	08/09/2023	A6D	Sulfate, total	mg/L	667	700	TBD
G313	UA	Compliance	11/20/2023	A6DR	Sulfate, total	mg/L	672	700	TBD
G313	UA	Compliance	02/16/2023	A6	Total Dissolved Solids	mg/L	1,600	893	Confirmed
G313	UA	Compliance	06/06/2023	A6R	Total Dissolved Solids	mg/L	1,400	893	Confirmed
G313	UA	Compliance	08/09/2023	A6D	Total Dissolved Solids	mg/L	1,500	893	TBD
G313	UA	Compliance	11/20/2023	A6DR	Total Dissolved Solids	mg/L	1,450	893	TBD
G314	LCU	Compliance	02/16/2023	A6	Boron, total	mg/L	0.140	2.90	No Exceedance
G314	LCU	Compliance	06/01/2023	A6R	Boron, total	mg/L	0.190	2.90	No Exceedance
G314	LCU	Compliance	08/09/2023	A6D	Boron, total	mg/L	0.130 J+	2.90	TBD
G314	LCU	Compliance	11/20/2023	A6DR	Boron, total	mg/L	0.206	2.90	TBD
G314	LCU	Compliance	02/16/2023	A6	Calcium, total	mg/L	690	153	Confirmed
G314	LCU	Compliance	06/01/2023	A6R	Calcium, total	mg/L	250	153	Confirmed
G314	LCU	Compliance	08/09/2023	A6D	Calcium, total	mg/L	631	153	TBD
G314	LCU	Compliance	11/20/2023	A6DR	Calcium, total	mg/L	662	153	TBD
G314	LCU	Compliance	02/16/2023	A6	Chloride, total	mg/L	32.0	75.0	No Exceedance
G314	LCU	Compliance	06/01/2023	A6R	Chloride, total	mg/L	30.0	75.0	No Exceedance
G314	LCU	Compliance	08/09/2023	A6D	Chloride, total	mg/L	31.0	75.0	TBD
G314	LCU	Compliance	11/20/2023	A6DR	Chloride, total	mg/L	31.0	75.0	TBD
G314	LCU	Compliance	02/16/2023	A6	Fluoride, total	mg/L	0.219 J	0.470	No Exceedance
G314	LCU	Compliance	06/01/2023	A6R	Fluoride, total	mg/L	0.185 J	0.470	No Exceedance
G314	LCU	Compliance	08/09/2023	A6D	Fluoride, total	mg/L	0.210 J+	0.470	TBD
G314	LCU	Compliance	11/20/2023	A6DR	Fluoride, total	mg/L	0.200	0.470	TBD
G314	LCU	Compliance	02/16/2023	A6	pH (field)	SU	6.5	6.5/7.1	No Exceedance
G314	LCU	Compliance	06/01/2023	A6R	pH (field)	SU	6.8	6.5/7.1	No Exceedance
G314	LCU	Compliance	08/09/2023	A6D	pH (field)	SU	6.4	6.5/7.1	TBD
G314	LCU	Compliance	11/20/2023	A6DR	pH (field)	SU	6.5	6.5/7.1	TBD
G314	LCU	Compliance	02/16/2023	A6	Sulfate, total	mg/L	2,000	700	Confirmed
G314	LCU	Compliance	06/01/2023	A6R	Sulfate, total	mg/L	2,000	700	Confirmed
G314	LCU	Compliance	08/09/2023	A6D	Sulfate, total	mg/L	2,070	700	TBD
G314	LCU	Compliance	11/20/2023	A6DR	Sulfate, total	mg/L	2,190	700	TBD
G314	LCU	Compliance	02/16/2023	A6	Total Dissolved Solids	mg/L	3,800	893	Confirmed
G314	LCU	Compliance	06/01/2023	A6R	Total Dissolved Solids	mg/L	3,700	893	Confirmed
G314	LCU	Compliance	08/09/2023	A6D	Total Dissolved Solids	mg/L	3,780	893	TBD
G314	LCU	Compliance	11/20/2023	A6DR	Total Dissolved Solids	mg/L	3,850	893	TBD
G314D	DA	Compliance	02/16/2023	A6	Boron, total	mg/L	0.190	2.90	No Exceedance
G314D	DA	Compliance	06/01/2023	A6R	Boron, total	mg/L	0.130	2.90	No Exceedance
G314D	DA	Compliance	08/09/2023	A6D	Boron, total	mg/L	0.190 J+	2.90	TBD
G314D	DA	Compliance	11/20/2023	A6DR	Boron, total	mg/L	0.236	2.90	TBD
G314D	DA	Compliance	02/16/2023	A6	Calcium, total	mg/L	230	153	Confirmed
G314D	DA	Compliance	06/01/2023	A6R	Calcium, total	mg/L	770	153	Confirmed
G314D	DA	Compliance	08/09/2023	A6D	Calcium, total	mg/L	274	153	TBD
G314D	DA	Compliance	11/20/2023	A6DR	Calcium, total	mg/L	299	153	TBD
G314D	DA	Compliance	02/16/2023	A6	Chloride, total	mg/L	60.0	75.0	No Exceedance
G314D	DA	Compliance	06/01/2023	A6R	Chloride, total	mg/L	59.0	75.0	No Exceedance

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G314D	DA	Compliance	08/09/2023	A6D	Chloride, total	mg/L	63.0	75.0	TBD
G314D	DA	Compliance	11/20/2023	A6DR	Chloride, total	mg/L	58.0	75.0	TBD
G314D	DA	Compliance	02/16/2023	A6	Fluoride, total	mg/L	0.546	0.470	Confirmed
G314D	DA	Compliance	06/01/2023	A6R	Fluoride, total	mg/L	0.607	0.470	Confirmed
G314D	DA	Compliance	08/09/2023	A6D	Fluoride, total	mg/L	0.650	0.470	TBD
G314D	DA	Compliance	11/20/2023	A6DR	Fluoride, total	mg/L	0.680	0.470	TBD
G314D	DA	Compliance	02/16/2023	A6	pH (field)	SU	6.9	6.5/7.1	No Exceedance
G314D	DA	Compliance	06/01/2023	A6R	pH (field)	SU	7.1	6.5/7.1	No Exceedance
G314D	DA	Compliance	08/09/2023	A6D	pH (field)	SU	6.8	6.5/7.1	TBD
G314D	DA	Compliance	11/20/2023	A6DR	pH (field)	SU	6.7	6.5/7.1	TBD
G314D	DA	Compliance	02/16/2023	A6	Sulfate, total	mg/L	810	700	Confirmed
G314D	DA	Compliance	06/01/2023	A6R	Sulfate, total	mg/L	1,100	700	Confirmed
G314D	DA	Compliance	08/09/2023	A6D	Sulfate, total	mg/L	1,090	700	TBD
G314D	DA	Compliance	11/20/2023	A6DR	Sulfate, total	mg/L	1,080	700	TBD
G314D	DA	Compliance	02/16/2023	A6	Total Dissolved Solids	mg/L	2,100	893	Confirmed
G314D	DA	Compliance	06/01/2023	A6R	Total Dissolved Solids	mg/L	2,400 J	893	Confirmed
G314D	DA	Compliance	08/09/2023	A6D	Total Dissolved Solids	mg/L	2,380	893	TBD
G314D	DA	Compliance	11/20/2023	A6DR	Total Dissolved Solids	mg/L	2,420	893	TBD
G315	UA	Compliance	02/15/2023	A6	Boron, total	mg/L	1.20	2.90	No Exceedance
G315	UA	Compliance	06/07/2023	A6R	Boron, total	mg/L	1.20	2.90	No Exceedance
G315	UA	Compliance	08/10/2023	A6D	Boron, total	mg/L	1.68	2.90	TBD
G315	UA	Compliance	11/21/2023	A6DR	Boron, total	mg/L	1.90	2.90	TBD
G315	UA	Compliance	02/15/2023	A6	Calcium, total	mg/L	150	153	No Exceedance
G315	UA	Compliance	06/07/2023	A6R	Calcium, total	mg/L	140	153	No Exceedance
G315	UA	Compliance	08/10/2023	A6D	Calcium, total	mg/L	147	153	TBD
G315	UA	Compliance	11/21/2023	A6DR	Calcium, total	mg/L	165	153	TBD
G315	UA	Compliance	02/15/2023	A6	Chloride, total	mg/L	12.0	75.0	No Exceedance
G315	UA	Compliance	06/07/2023	A6R	Chloride, total	mg/L	15.0	75.0	No Exceedance
G315	UA	Compliance	08/10/2023	A6D	Chloride, total	mg/L	14.0	75.0	TBD
G315	UA	Compliance	11/21/2023	A6DR	Chloride, total	mg/L	14.0	75.0	TBD
G315	UA	Compliance	02/15/2023	A6	Fluoride, total	mg/L	0.268	0.470	No Exceedance
G315	UA	Compliance	06/07/2023	A6R	Fluoride, total	mg/L	0.286	0.470	No Exceedance
G315	UA	Compliance	08/10/2023	A6D	Fluoride, total	mg/L	0.300 J+	0.470	TBD
G315	UA	Compliance	11/21/2023	A6DR	Fluoride, total	mg/L	0.320	0.470	TBD
G315	UA	Compliance	02/15/2023	A6	pH (field)	SU	7.0	6.5/7.1	No Exceedance
G315	UA	Compliance	06/07/2023	A6R	pH (field)	SU	6.9	6.5/7.1	No Exceedance
G315	UA	Compliance	08/10/2023	A6D	pH (field)	SU	6.7	6.5/7.1	TBD
G315	UA	Compliance	11/21/2023	A6DR	pH (field)	SU	6.5	6.5/7.1	TBD
G315	UA	Compliance	02/15/2023	A6	Sulfate, total	mg/L	670	700	No Exceedance
G315	UA	Compliance	06/07/2023	A6R	Sulfate, total	mg/L	600	700	No Exceedance
G315	UA	Compliance	08/10/2023	A6D	Sulfate, total	mg/L	603	700	TBD
G315	UA	Compliance	11/21/2023	A6DR	Sulfate, total	mg/L	588	700	TBD
G315	UA	Compliance	02/15/2023	A6	Total Dissolved Solids	mg/L	1,300	893	Confirmed
G315	UA	Compliance	06/07/2023	A6R	Total Dissolved Solids	mg/L	1,100	893	Confirmed
G315	UA	Compliance	08/10/2023	A6D	Total Dissolved Solids	mg/L	1,190	893	TBD
G315	UA	Compliance	11/21/2023	A6DR	Total Dissolved Solids	mg/L	362	893	TBD

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G316	LCU	Compliance	02/16/2023	A6	Boron, total	mg/L	0.330	2.90	No Exceedance
G316	LCU	Compliance	05/31/2023	A6R	Boron, total	mg/L	0.390	2.90	No Exceedance
G316	LCU	Compliance	08/09/2023	A6D	Boron, total	mg/L	0.441 J+	2.90	TBD
G316	LCU	Compliance	11/20/2023	A6DR	Boron, total	mg/L	0.526	2.90	TBD
G316	LCU	Compliance	02/16/2023	A6	Calcium, total	mg/L	200	153	Confirmed
G316	LCU	Compliance	05/31/2023	A6R	Calcium, total	mg/L	190	153	Confirmed
G316	LCU	Compliance	08/09/2023	A6D	Calcium, total	mg/L	203	153	TBD
G316	LCU	Compliance	11/20/2023	A6DR	Calcium, total	mg/L	220	153	TBD
G316	LCU	Compliance	02/16/2023	A6	Chloride, total	mg/L	25.0	75.0	No Exceedance
G316	LCU	Compliance	05/31/2023	A6R	Chloride, total	mg/L	26.0	75.0	No Exceedance
G316	LCU	Compliance	08/09/2023	A6D	Chloride, total	mg/L	26.0	75.0	TBD
G316	LCU	Compliance	11/20/2023	A6DR	Chloride, total	mg/L	26.0	75.0	TBD
G316	LCU	Compliance	02/16/2023	A6	Fluoride, total	mg/L	0.231 J	0.470	No Exceedance
G316	LCU	Compliance	05/31/2023	A6R	Fluoride, total	mg/L	0.0809 J	0.470	No Exceedance
G316	LCU	Compliance	08/09/2023	A6D	Fluoride, total	mg/L	0.280 J+	0.470	TBD
G316	LCU	Compliance	11/20/2023	A6DR	Fluoride, total	mg/L	0.310	0.470	TBD
G316	LCU	Compliance	02/16/2023	A6	pH (field)	SU	7.0	6.5/7.1	No Exceedance
G316	LCU	Compliance	05/31/2023	A6R	pH (field)	SU	7.2	6.5/7.1	Exceedance Not Confirmed
G316	LCU	Compliance	08/09/2023	A6D	pH (field)	SU	6.7	6.5/7.1	TBD
G316	LCU	Compliance	11/20/2023	A6DR	pH (field)	SU	6.8	6.5/7.1	TBD
G316	LCU	Compliance	02/16/2023	A6	Sulfate, total	mg/L	740	700	Confirmed
G316	LCU	Compliance	05/31/2023	A6R	Sulfate, total	mg/L	760	700	Confirmed
G316	LCU	Compliance	08/09/2023	A6D	Sulfate, total	mg/L	662	700	TBD
G316	LCU	Compliance	11/20/2023	A6DR	Sulfate, total	mg/L	670	700	TBD
G316	LCU	Compliance	02/16/2023	A6	Total Dissolved Solids	mg/L	1,800	893	Confirmed
G316	LCU	Compliance	05/31/2023	A6R	Total Dissolved Solids	mg/L	1,700	893	Confirmed
G316	LCU	Compliance	08/09/2023	A6D	Total Dissolved Solids	mg/L	1,620	893	TBD
G316	LCU	Compliance	11/20/2023	A6DR	Total Dissolved Solids	mg/L	1,680	893	TBD

Notes:
– = no data available
HSU = hydrostratigraphic unit:
 DA = Deep Aquifer
 LCU = Lower Confining Unit
 UA = Uppermost Aquifer
ID = identification
mg/L = milligrams per liter
NA = not applicable
R = resample
Statistically Significant Increase (SSI) Type:
 TBD: To be determined in 2024.
 No Exceedance: No exceedance of the background.
 Exceedance Not Confirmed: An exceedance was determined in the parent event, a resample was collected, and the resample did not confirm the exceedance.
 Confirmed: An exceedance was determined with comparison to a resample. If a determined exceedance is confirmed by resample, both the sample and resample are noted as confirmed.

SU = Standard Units
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The result is an estimated quantity, but the result may be biased high.
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

TABLE 3
ANALYTICAL RESULTS - APPENDIX IV PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Date	Event ID	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Fluoride, total (mg/L)	Lead, total (mg/L)	Lithium, total (mg/L)	Mercury, total (mg/L)	Molybdenum, total (mg/L)	Radium 226 + 228 (pCi/L)	Selenium, total (mg/L)	Thallium, total (mg/L)
G281	B	02/16/2023	A6	0.00043 U	0.00140	0.0650	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.234 J	0.00022 U	0.005 U	0.00014 U	0.00074 U	0.0779	0.00074 U	0.00038 U
G281	B	06/08/2023	A6R	0.00043 U	0.00093 J	0.0710	0.00059 U	0.00074 U	0.0028 U	0.00099 J	0.253	0.00053 J	0.005 U	0.00014 U	0.00074 U	0	0.00074 U	0.00038 U
G281	B	08/14/2023	A6D	0.0008 U	0.0004 U	0.0707	0.0002 U	0.0002 U	0.0007 U	0.0004 J	0.300 J+	0.0006 U	0.00420	0.00006 U	0.0006 U	0.667	0.0006 U	0.001 U
G306	B	02/16/2023	A6	0.00043 U	0.00490	0.0770	0.00059 U	0.00074 U	0.0120	0.00440	0.04 U	0.00540	0.0077 J	0.00014 U	0.00110	0.0469	0.00074 U	0.00038 U
G306	B	06/05/2023	A6R	0.00043 U	0.00069 U	0.0410	0.00059 U	0.00074 U	0.0037 J	0.00048 U	0.203 J	0.00051 J	0.005 U	0.00014 U	0.00074 U	0.0900	0.00074 U	0.00038 U
G306	B	08/10/2023	A6D	0.0007 J	0.00720	0.0700	0.0007 J	0.0002 U	0.0211	0.00670	0.180 J+	0.00590	0.0149	0.00006 U	0.0014 J	4.93	0.0006 U	0.001 U
G301	C	02/15/2023	A6	0.00043 U	0.00100	0.0220	0.00059 U	0.00074 U	0.0028 U	0.0017 J	0.04 U	0.00084 J	0.005 U	0.00014 U	0.00074 U	0.766	0.00074 U	0.00038 U
G301	C	06/06/2023	A6R	0.00043 U	0.00069 U	0.0180	0.00059 U	0.00074 U	0.0028 U	0.0018 J	0.197 J	0.00046 J	0.005 U	0.00014 U	0.00074 U	0.0829	0.00074 U	0.00038 U
G301	C	08/09/2023	A6D	0.0005 J	0.0004 U	0.0152	0.0003 U	0.0002 U	0.001 J	0.00150	0.310 J+	0.0006 U	0.00470	0.00006 U	0.0006 U	1.03	0.0006 U	0.001 U
G302	C	02/15/2023	A6	0.00043 U	0.00240	0.0490	0.00059 U	0.00074 U	0.00400	0.00300	0.04 U	0.00340	0.014 J	0.00014 U	0.00089 J	0.133	0.00074 U	0.00038 U
G302	C	05/31/2023	A6R	0.00043 U	0.00220	0.0420	0.00059 U	0.00074 U	0.00400	0.0100	0.122 J	0.00150	0.013 J	0.00014 J	0.00110 J	1.50	0.00074 U	0.00038 U
G302	C	08/09/2023	A6D	0.0004 U	0.00100 J	0.0259	0.0003 U	0.0002 U	0.0007 U	0.00180	0.280 J+	0.0006 J	0.0111	0.00006 U	0.0006 J	0.923	0.0006 U	0.001 U
G303	C	02/15/2023	A6	0.00043 U	0.00320	0.0210	0.00059 U	0.00074 U	0.0028 U	0.00099 J	0.269	0.00082 J	0.0230	0.00014 U	0.00150	0.412	0.00074 U	0.00038 U
G303	C	05/31/2023	A6R	0.00043 U	0.00260	0.0150	0.00059 U	0.00074 U	0.0028 U	0.0018 J	0.0653 J	0.00022 U	0.0320	0.00017 J	0.00160	1.22	0.00074 U	0.00038 U
G303	C	08/09/2023	A6D	0.0004 U	0.00260	0.0183	0.0003 U	0.0002 U	0.0014 J	0.00240	0.270 J+	0.00110	0.0398	0.00006 U	0.00200	1.36	0.0006 U	0.001 U
G305	C	02/15/2023	A6	0.00043 U	0.00610	0.0690	0.00059 U	0.00074 U	0.0200	0.00680	0.302	0.0210	0.016 J	0.00014 U	0.00140	1.22	0.00091 J	0.00038 U
G305	C	06/06/2023	A6R	0.00043 U	0.00170	0.0380	0.00059 U	0.00074 U	0.00770	0.00230	0.258	0.00560	0.0092 J	0.00014 U	0.00093 J	1.63	0.00097 J	0.00038 U
G305	C	08/10/2023	A6D	0.0009 J	0.0007 J	0.0254	0.0002 U	0.0002 U	0.0012 J	0.0006 J	0.490 J+	0.0007 J	0.00850	0.00006 U	0.00160	0.549	0.0006 U	0.001 U
G307	C	02/15/2023	A6	0.00043 U	0.00300	0.0650	0.00059 U	0.00077 J	0.0250	0.00470	0.299	0.00580	0.01 J	0.00014 U	0.00130	1.15	0.00074 U	0.00038 U
G307	C	06/05/2023	A6R	0.00043 U	0.00069 U	0.0250	0.00059 U	0.00074 U	0.0028 U	0.00230	0.325	0.00022 U	0.005 U	0.00014 U	0.00092 J	0.528	0.00074 U	0.00038 U
G307D	C	02/15/2023	A6	0.00043 U	0.00720	0.0400	0.00059 U	0.00074 U	0.0028 U	0.00097 J	0.570	0.00022 U	0.005 U	0.00014 U	0.0160	1.34	0.00074 U	0.00038 U
G307D	C	06/05/2023	A6R	0.00043 U	0.00140	0.0320	0.00059 U	0.00074 U	0.0028 U	0.00072 J	0.579	0.00022 U	0.005 U	0.00014 U	0.00420	1.02	0.00074 U	0.00038 U
G307D	C	08/10/2023	A6D	0.0008 J	0.00190	0.0217	0.0002 U	0.0002 U	0.001 J	0.0009 J	0.600 J+	0.0006 U	0.00320	0.00006 U	0.00540	0.535	0.0006 U	0.001 U
G308	C	02/16/2023	A6	0.00043 U	0.00150	0.0180	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.503	0.00022 U	0.005 U	0.00014 U	0.00120	0.444	0.00074 U	0.00038 U
G308	C	06/01/2023	A6R	0.00043 U	0.00086 J	0.0210	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.464	0.00022 U	0.0062 J	0.00014 U	0.00140	0.481	0.00074 U	0.00038 U
G308	C	08/10/2023	A6D	0.0006 U	0.0005 J	0.0222	0.0002 U	0.0002 U	0.0009 J	0.0004 J	0.640	0.0006 U	0.00770	0.00006 U	0.00160	0.572	0.0006 U	0.001 U
G310	C	02/16/2023	A6	0.00043 U	0.00120	0.0130	0.00059 U	0.00074 U	0.0028 U	0.0011 J	0.280	0.00022 U	0.005 U	0.00014 U	0.00074 U	0.771	0.00074 U	0.00038 U

TABLE 3
ANALYTICAL RESULTS - APPENDIX IV PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Date	Event ID	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Fluoride, total (mg/L)	Lead, total (mg/L)	Lithium, total (mg/L)	Mercury, total (mg/L)	Molybdenum, total (mg/L)	Radium 226 + 228 (pCi/L)	Selenium, total (mg/L)	Thallium, total (mg/L)
G310	C	06/01/2023	A6R	0.00043 U	0.00071 J	0.0140	0.00059 U	0.00074 U	0.0028 U	0.0013 J	0.226 J	0.00032 J	0.0055 J	0.00014 U	0.00074 U	1.52	0.00074 U	0.00038 U
G310	C	08/09/2023	A6D	0.0004 U	0.0004 U	0.0147	0.0003 U	0.0002 J	0.0007 U	0.00130	0.320 J+	0.0006 J	0.00600	0.00006 U	0.0006 U	0.557	0.0006 U	0.001 U
G312	C	--	A6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G312	C	06/01/2023	A6R	0.00043 U	0.00069 U	0.0290	0.00059 U	0.00074 U	0.0028 U	0.0014 J	0.102 J	0.00022 U	0.0089 J	0.00014 U	0.00074 U	0.845	0.00074 U	0.00038 U
G312	C	08/09/2023	A6D	0.0004 U	0.0005 J	0.0306	0.0003 J	0.0002 U	0.0007 U	0.00460	0.220 J+	0.0006 U	0.0180	0.00006 U	0.006 U	0.816	0.0006 U	0.001 U
G313	C	02/16/2023	A6	0.00043 U	0.00170	0.0170	0.00059 U	0.00074 U	0.0028 U	0.00083 J	0.254	0.00022 U	0.015 J	0.00014 U	0.00099 J	0.00922	0.00074 U	0.00038 U
G313	C	06/06/2023	A6R	0.00043 U	0.00069 U	0.0180	0.00059 U	0.00074 U	0.0028 U	0.00077 J	0.166 J	0.00022 U	0.016 J	0.00014 U	0.00120	0.879	0.00074 U	0.00038 U
G313	C	08/09/2023	A6D	0.0004 U	0.0005 J	0.0193	0.0003 U	0.0002 U	0.0008 J	0.0008 J	0.320 J+	0.0006 U	0.0181	0.00006 U	0.0012 J	0.627	0.0006 U	0.001 U
G314	C	02/16/2023	A6	0.00043 U	0.00270	0.0160	0.00059 U	0.00074 U	0.0028 U	0.00210	0.219 J	0.00022 U	0.0055 J	0.00014 U	0.00270	0.533	0.00074 U	0.00038 U
G314	C	06/01/2023	A6R	0.00043 U	0.00170	0.0370	0.00059 U	0.00074 U	0.0028 U	0.00350	0.185 J	0.00110	0.013 J	0.00014 U	0.00480	0.924	0.00074 U	0.00038 U
G314	C	08/09/2023	A6D	0.00110	0.0007 J	0.0183	0.0003 U	0.0002 U	0.0007 U	0.00780	0.210 J+	0.0006 U	0.00560	0.00006 U	0.00210	1.20	0.0006 U	0.001 U
G314D	C	02/16/2023	A6	0.00043 U	0.00250	0.0370	0.00059 U	0.00074 U	0.0028 U	0.00270	0.546	0.00110	0.012 J	0.00014 U	0.00450	1.74	0.00074 U	0.00038 U
G314D	C	06/01/2023	A6R	0.00043 U	0.00069 U	0.0160	0.00059 U	0.00074 U	0.0028 U	0.0017 J	0.607	0.00022 U	0.005 U	0.00014 U	0.00260	2.54	0.00074 U	0.00038 U
G314D	C	08/09/2023	A6D	0.0007 J	0.00130	0.0351	0.0003 U	0.0002 U	0.0007 U	0.00360	0.650	0.0006 U	0.0122	0.00006 U	0.00450	1.60	0.0006 U	0.001 U
G315	C	02/15/2023	A6	0.00043 U	0.00069 U	0.0170	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.268	0.00022 U	0.005 U	0.00014 U	0.00074 U	0.0669	0.00074 U	0.00038 U
G315	C	06/07/2023	A6R	0.00043 U	0.00086 J	0.0360	0.00059 U	0.00074 U	0.0038 J	0.0017 J	0.286	0.00180	0.0053 J	0.0002 U	0.00074 U	0.344	0.00074 U	0.00038 U
G315	C	08/10/2023	A6D	0.0006 U	0.0005 J	0.0175	0.0006 J	0.0002 U	0.0007 J	0.00140	0.300 J+	0.0006 U	0.00660	0.00006 U	0.0006 J	0.581	0.0006 U	0.001 U
G316	C	02/16/2023	A6	0.00043 U	0.00940	0.0690	0.00059 U	0.00074 U	0.0028 U	0.00280	0.231 J	0.00022 U	0.005 U	0.00014 U	0.00360	0.202	0.00074 U	0.00038 U
G316	C	05/31/2023	A6R	0.00043 U	0.00670	0.0660	0.00059 U	0.00074 U	0.0028 U	0.00250	0.0809 J	0.00022 U	0.005 U	0.00016 J	0.00400	1.81	0.00074 U	0.00038 U
G316	C	08/09/2023	A6D	0.0005 J	0.00950	0.0743	0.0003 U	0.0002 U	0.0007 U	0.00280	0.280 J+	0.0006 U	0.0017 J	0.00006 U	0.00440	0.662	0.0006 U	0.001 U

Notes:
- = no data available
ID = identification
mg/L = milligrams per liter
pCi/L = picoCuries per liter
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The result is an estimated quantity, but the result may be biased high.
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.
Well Type:
 B = Background
 C = Compliance

TABLE 4
STATISTICAL BACKGROUND VALUES
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Parameter	Date Range	Sample Count	Percent Non-Detects	Statistical Calculation	Statistical Background Value (LPL/UPL)
Boron (mg/L)	11/20/2015 - 07/13/2017	16	31	Non-parametric UPL	2.90
Calcium (mg/L)	11/20/2015 - 07/13/2017	16	0	Parametric UPL	153
Chloride (mg/L)	11/20/2015 - 07/13/2017	16	0	Non-parametric UPL	75.0
Fluoride (mg/L)	11/20/2015 - 07/13/2017	16	6	Parametric UPL	0.470
pH (field) (SU)	11/20/2015 - 07/13/2017	16	0	Non-parametric LPL/UPL	6.5/7.1
Sulfate (mg/L)	11/20/2015 - 07/13/2017	16	0	Non-parametric UPL	700
Total Dissolved Solids (mg/L)	11/20/2015 - 07/13/2017	16	0	Parametric UPL	893

Notes:
LPL = lower prediction limit (applicable for pH only)
mg/L = milligrams per liter
SU = standard units
UPL = upper prediction limit

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TABLE 5
GROUNDWATER PROTECTION STANDARDS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Parameter	Background					MCL / HBL	Groundwater Protection Standard *	Groundwater Protection Standard Source
	Date Range	Sample Count	Percent Non-Detects	Statistical Calculation	Value			
Antimony (mg/L)	11/20/2015 - 07/13/2017	16	100	All ND - Last Reporting Limit	0.003	0.006	0.006	MCL/HBL
Arsenic (mg/L)	11/20/2015 - 07/13/2017	16	75	Non-parametric UTL	0.00430	0.010	0.010	MCL/HBL
Barium (mg/L)	11/20/2015 - 07/13/2017	16	0	Parametric UTL (log-transformed)	0.130	2.0	2.0	MCL/HBL
Beryllium (mg/L)	11/20/2015 - 07/13/2017	16	100	All ND - Last Reporting Limit	0.001	0.004	0.004	MCL/HBL
Cadmium (mg/L)	11/20/2015 - 07/13/2017	16	100	All ND - Last Reporting Limit	0.001	0.005	0.005	MCL/HBL
Chromium (mg/L)	11/20/2015 - 07/13/2017	16	88	Non-parametric UTL	0.0120	0.1	0.1	MCL/HBL
Cobalt (mg/L)	11/20/2015 - 07/13/2017	16	69	Non-parametric UTL	0.00640	0.006	0.00640	Background
Fluoride (mg/L)	11/20/2015 - 07/13/2017	16	6	Parametric UTL	0.501	4.0	4.0	MCL/HBL
Lead (mg/L)	11/20/2015 - 07/13/2017	16	69	Non-parametric UTL	0.00630	0.015	0.015	MCL/HBL
Lithium (mg/L)	11/20/2015 - 07/13/2017	16	88	Non-parametric UTL	0.0130	0.04	0.04	MCL/HBL
Mercury (mg/L)	11/20/2015 - 07/13/2017	16	100	All ND - Last Reporting Limit	0.0002	0.002	0.002	MCL/HBL
Molybdenum (mg/L)	11/20/2015 - 07/13/2017	16	50	Non-parametric UTL	0.00190	0.1	0.1	MCL/HBL
Radium 226 + Radium 228 (pCi/L)	11/20/2015 - 07/13/2017	16	0	Parametric UTL	1.91	5	5	MCL/HBL
Selenium (mg/L)	11/20/2015 - 07/13/2017	16	94	Non-parametric UTL	0.00110	0.05	0.05	MCL/HBL
Thallium (mg/L)	11/20/2015 - 07/13/2017	16	100	All ND - Last Reporting Limit	0.001	0.002	0.002	MCL/HBL

Notes:
* Groundwater Protection Standard is the higher of the MCL/HBL or background.
MCL/HBL = maximum contaminant level/health-based level
mg/L = milligrams per liter
ND = non-detect
pCi/L = picoCuries per liter
UTL = upper tolerance limit

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G301	UA	A6	Antimony, total	mg/L	11/20/2015 - 02/15/2023	14	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G301	UA	A6R	Antimony, total	mg/L	11/20/2015 - 06/06/2023	15	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G301	UA	A6	Arsenic, total	mg/L	11/20/2015 - 02/15/2023	19	58	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G301	UA	A6R	Arsenic, total	mg/L	11/20/2015 - 06/06/2023	20	60	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G301	UA	A6	Barium, total	mg/L	11/20/2015 - 02/15/2023	19	0	CI around mean	0.0255	2.0	MCL/HBL	No Exceedance
G301	UA	A6R	Barium, total	mg/L	11/20/2015 - 06/06/2023	20	0	CB around T-S line	-0.0129	2.0	MCL/HBL	No Exceedance
G301	UA	A6	Beryllium, total	mg/L	11/20/2015 - 02/15/2023	18	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G301	UA	A6R	Beryllium, total	mg/L	11/20/2015 - 06/06/2023	19	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G301	UA	A6	Cadmium, total	mg/L	11/20/2015 - 02/15/2023	19	95	CI around median	0.001	0.005	MCL/HBL	No Exceedance
G301	UA	A6R	Cadmium, total	mg/L	11/20/2015 - 06/06/2023	20	95	CI around median	0.001	0.005	MCL/HBL	No Exceedance
G301	UA	A6	Chromium, total	mg/L	11/20/2015 - 02/15/2023	19	58	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G301	UA	A6R	Chromium, total	mg/L	11/20/2015 - 06/06/2023	20	60	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G301	UA	A6	Cobalt, total	mg/L	11/20/2015 - 02/15/2023	19	32	CI around median	0.002	0.00640	Background	No Exceedance
G301	UA	A6R	Cobalt, total	mg/L	11/20/2015 - 06/06/2023	20	35	CI around median	0.002	0.00640	Background	No Exceedance
G301	UA	A6	Fluoride, total	mg/L	11/20/2015 - 02/15/2023	20	35	CI around mean	0.266	4.0	MCL/HBL	No Exceedance
G301	UA	A6R	Fluoride, total	mg/L	11/20/2015 - 06/06/2023	21	38	CI around median	0.25	4.0	MCL/HBL	No Exceedance
G301	UA	A6	Lead, total	mg/L	11/20/2015 - 02/15/2023	19	42	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G301	UA	A6R	Lead, total	mg/L	11/20/2015 - 06/06/2023	20	45	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G301	UA	A6	Lithium, total	mg/L	11/20/2015 - 02/15/2023	19	63	CB around T-S line	0.0105	0.04	MCL/HBL	No Exceedance
G301	UA	A6R	Lithium, total	mg/L	11/20/2015 - 06/06/2023	20	65	CB around T-S line	0.01	0.04	MCL/HBL	No Exceedance
G301	UA	A6	Mercury, total	mg/L	11/20/2015 - 02/15/2023	14	93	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
G301	UA	A6R	Mercury, total	mg/L	11/20/2015 - 06/06/2023	15	93	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
G301	UA	A6	Molybdenum, total	mg/L	11/20/2015 - 02/15/2023	19	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
G301	UA	A6R	Molybdenum, total	mg/L	11/20/2015 - 06/06/2023	20	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
G301	UA	A6	Radium 226 + Radium 228, total	pCi/L	11/20/2015 - 02/15/2023	19	0	CI around mean	0.566	5	MCL/HBL	No Exceedance
G301	UA	A6R	Radium 226 + Radium 228, total	pCi/L	11/20/2015 - 06/06/2023	20	0	CI around mean	0.527	5	MCL/HBL	No Exceedance
G301	UA	A6	Selenium, total	mg/L	11/20/2015 - 02/15/2023	18	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G301	UA	A6R	Selenium, total	mg/L	11/20/2015 - 06/06/2023	19	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G301	UA	A6	Thallium, total	mg/L	11/20/2015 - 02/15/2023	14	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G301	UA	A6R	Thallium, total	mg/L	11/20/2015 - 06/06/2023	15	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G302	UA	A6	Antimony, total	mg/L	11/20/2015 - 02/15/2023	14	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G302	UA	A6R	Antimony, total	mg/L	11/20/2015 - 05/31/2023	15	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G302	UA	A6	Arsenic, total	mg/L	11/20/2015 - 02/15/2023	19	26	CI around geomean	0.00119	0.010	MCL/HBL	No Exceedance
G302	UA	A6R	Arsenic, total	mg/L	11/20/2015 - 05/31/2023	20	25	CI around geomean	0.00123	0.010	MCL/HBL	No Exceedance
G302	UA	A6	Barium, total	mg/L	11/20/2015 - 02/15/2023	19	0	CI around geomean	0.0273	2.0	MCL/HBL	No Exceedance
G302	UA	A6R	Barium, total	mg/L	11/20/2015 - 05/31/2023	20	0	CI around geomean	0.0279	2.0	MCL/HBL	No Exceedance
G302	UA	A6	Beryllium, total	mg/L	11/20/2015 - 02/15/2023	18	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G302	UA	A6R	Beryllium, total	mg/L	11/20/2015 - 05/31/2023	19	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G302	UA	A6	Cadmium, total	mg/L	11/20/2015 - 02/15/2023	19	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G302	UA	A6R	Cadmium, total	mg/L	11/20/2015 - 05/31/2023	20	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G302	UA	A6	Chromium, total	mg/L	11/20/2015 - 02/15/2023	19	68	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G302	UA	A6R	Chromium, total	mg/L	11/20/2015 - 05/31/2023	20	65	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G302	UA	A6	Cobalt, total	mg/L	11/20/2015 - 02/15/2023	19	32	CI around median	0.002	0.00640	Background	No Exceedance
G302	UA	A6R	Cobalt, total	mg/L	11/20/2015 - 05/31/2023	20	30	CI around median	0.002	0.00640	Background	No Exceedance
G302	UA	A6	Fluoride, total	mg/L	11/20/2015 - 02/15/2023	20	35	CI around median	0.25	4.0	MCL/HBL	No Exceedance
G302	UA	A6R	Fluoride, total	mg/L	11/20/2015 - 05/31/2023	21	38	CI around median	0.25	4.0	MCL/HBL	No Exceedance
G302	UA	A6	Lead, total	mg/L	11/20/2015 - 02/15/2023	19	58	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G302	UA	A6R	Lead, total	mg/L	11/20/2015 - 05/31/2023	20	55	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G302	UA	A6	Lithium, total	mg/L	11/20/2015 - 02/15/2023	19	32	CI around mean	0.0143	0.04	MCL/HBL	No Exceedance
G302	UA	A6R	Lithium, total	mg/L	11/20/2015 - 05/31/2023	20	35	CI around mean	0.0142	0.04	MCL/HBL	No Exceedance
G302	UA	A6	Mercury, total	mg/L	11/20/2015 - 02/15/2023	14	93	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
G302	UA	A6R	Mercury, total	mg/L	11/20/2015 - 05/31/2023	15	93	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
G302	UA	A6	Molybdenum, total	mg/L	11/20/2015 - 02/15/2023	19	47	CI around median	0.001	0.1	MCL/HBL	No Exceedance
G302	UA	A6R	Molybdenum, total	mg/L	11/20/2015 - 05/31/2023	20	45	CI around median	0.001	0.1	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G302	UA	A6	Radium 226 + Radium 228, total	pCi/L	11/20/2015 - 02/15/2023	19	0	CI around geomean	0.323	5	MCL/HBL	No Exceedance
G302	UA	A6R	Radium 226 + Radium 228, total	pCi/L	11/20/2015 - 05/31/2023	20	0	CI around geomean	0.346	5	MCL/HBL	No Exceedance
G302	UA	A6	Selenium, total	mg/L	11/20/2015 - 02/15/2023	18	94	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G302	UA	A6R	Selenium, total	mg/L	11/20/2015 - 05/31/2023	19	95	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G302	UA	A6	Thallium, total	mg/L	11/20/2015 - 02/15/2023	14	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G302	UA	A6R	Thallium, total	mg/L	11/20/2015 - 05/31/2023	15	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G303	UA	A6	Antimony, total	mg/L	11/20/2015 - 02/15/2023	14	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G303	UA	A6R	Antimony, total	mg/L	11/20/2015 - 05/31/2023	15	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G303	UA	A6	Arsenic, total	mg/L	11/20/2015 - 02/15/2023	19	5.3	CB around linear reg	-0.00424	0.010	MCL/HBL	No Exceedance
G303	UA	A6R	Arsenic, total	mg/L	11/20/2015 - 05/31/2023	20	5.0	CB around linear reg	-0.00372	0.010	MCL/HBL	No Exceedance
G303	UA	A6	Barium, total	mg/L	11/20/2015 - 02/15/2023	19	0	CI around median	0.015	2.0	MCL/HBL	No Exceedance
G303	UA	A6R	Barium, total	mg/L	11/20/2015 - 05/31/2023	20	0	CI around median	0.015	2.0	MCL/HBL	No Exceedance
G303	UA	A6	Beryllium, total	mg/L	11/20/2015 - 02/15/2023	18	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G303	UA	A6R	Beryllium, total	mg/L	11/20/2015 - 05/31/2023	19	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G303	UA	A6	Cadmium, total	mg/L	11/20/2015 - 02/15/2023	19	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G303	UA	A6R	Cadmium, total	mg/L	11/20/2015 - 05/31/2023	20	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G303	UA	A6	Chromium, total	mg/L	11/20/2015 - 02/15/2023	19	89	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G303	UA	A6R	Chromium, total	mg/L	11/20/2015 - 05/31/2023	20	90	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G303	UA	A6	Cobalt, total	mg/L	11/20/2015 - 02/15/2023	19	32	CI around geomean	0.00241	0.00640	Background	No Exceedance
G303	UA	A6R	Cobalt, total	mg/L	11/20/2015 - 05/31/2023	20	35	CI around geomean	0.00238	0.00640	Background	No Exceedance
G303	UA	A6	Fluoride, total	mg/L	11/20/2015 - 02/15/2023	20	20	CI around mean	0.264	4.0	MCL/HBL	No Exceedance
G303	UA	A6R	Fluoride, total	mg/L	11/20/2015 - 05/31/2023	21	24	CI around mean	0.263	4.0	MCL/HBL	No Exceedance
G303	UA	A6	Lead, total	mg/L	11/20/2015 - 02/15/2023	19	89	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G303	UA	A6R	Lead, total	mg/L	11/20/2015 - 05/31/2023	20	90	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G303	UA	A6	Lithium, total	mg/L	11/20/2015 - 02/15/2023	19	0	CB around linear reg	0.00689	0.04	MCL/HBL	No Exceedance
G303	UA	A6R	Lithium, total	mg/L	11/20/2015 - 05/31/2023	20	0	CB around linear reg	0.00873	0.04	MCL/HBL	No Exceedance
G303	UA	A6	Mercury, total	mg/L	11/20/2015 - 02/15/2023	14	86	CI around median	0.0002	0.002	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G303	UA	A6R	Mercury, total	mg/L	11/20/2015 - 05/31/2023	15	87	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
G303	UA	A6	Molybdenum, total	mg/L	11/20/2015 - 02/15/2023	19	0	CB around linear reg	0.000924	0.1	MCL/HBL	No Exceedance
G303	UA	A6R	Molybdenum, total	mg/L	11/20/2015 - 05/31/2023	20	0	CB around linear reg	0.000967	0.1	MCL/HBL	No Exceedance
G303	UA	A6	Radium 226 + Radium 228, total	pCi/L	11/20/2015 - 02/15/2023	19	0	CI around mean	0.505	5	MCL/HBL	No Exceedance
G303	UA	A6R	Radium 226 + Radium 228, total	pCi/L	11/20/2015 - 05/31/2023	20	0	CI around mean	0.538	5	MCL/HBL	No Exceedance
G303	UA	A6	Selenium, total	mg/L	11/20/2015 - 02/15/2023	18	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G303	UA	A6R	Selenium, total	mg/L	11/20/2015 - 05/31/2023	19	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G303	UA	A6	Thallium, total	mg/L	11/20/2015 - 02/15/2023	14	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G303	UA	A6R	Thallium, total	mg/L	11/20/2015 - 05/31/2023	15	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G304/G307	UA	A6	Antimony, total	mg/L	11/20/2015 - 02/15/2023	14	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Antimony, total	mg/L	11/20/2015 - 06/05/2023	15	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G304/G307	UA	A6	Arsenic, total	mg/L	11/20/2015 - 02/15/2023	19	47	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Arsenic, total	mg/L	11/20/2015 - 06/05/2023	20	50	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G304/G307	UA	A6	Barium, total	mg/L	11/20/2015 - 02/15/2023	19	0	CI around geomean	0.0303	2.0	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Barium, total	mg/L	11/20/2015 - 06/05/2023	20	0	CI around geomean	0.0299	2.0	MCL/HBL	No Exceedance
G304/G307	UA	A6	Beryllium, total	mg/L	11/20/2015 - 02/15/2023	18	94	CI around median	0.001	0.004	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Beryllium, total	mg/L	11/20/2015 - 06/05/2023	19	95	CI around median	0.001	0.004	MCL/HBL	No Exceedance
G304/G307	UA	A6	Cadmium, total	mg/L	11/20/2015 - 02/15/2023	19	58	CI around median	0.001	0.005	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Cadmium, total	mg/L	11/20/2015 - 06/05/2023	20	60	CI around median	0.001	0.005	MCL/HBL	No Exceedance
G304/G307	UA	A6	Chromium, total	mg/L	11/20/2015 - 02/15/2023	19	47	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Chromium, total	mg/L	11/20/2015 - 06/05/2023	20	50	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G304/G307	UA	A6	Cobalt, total	mg/L	11/20/2015 - 02/15/2023	20	0	CI around median	0.0029	0.00640	Background	No Exceedance
G304/G307	UA	A6R	Cobalt, total	mg/L	11/20/2015 - 06/05/2023	21	0	CI around median	0.0029	0.00640	Background	No Exceedance
G304/G307	UA	A6	Fluoride, total	mg/L	11/20/2015 - 02/15/2023	20	5.0	CI around median	0.299	4.0	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Fluoride, total	mg/L	11/20/2015 - 06/05/2023	21	4.8	CI around median	0.323	4.0	MCL/HBL	No Exceedance
G304/G307	UA	A6	Lead, total	mg/L	11/20/2015 - 02/15/2023	19	32	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Lead, total	mg/L	11/20/2015 - 06/05/2023	20	35	CI around median	0.001	0.015	MCL/HBL	No Exceedance

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DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G304/G307	UA	A6	Lithium, total	mg/L	11/20/2015 - 02/15/2023	19	47	CI around median	0.012	0.04	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Lithium, total	mg/L	11/20/2015 - 06/05/2023	20	50	CI around median	0.012	0.04	MCL/HBL	No Exceedance
G304/G307	UA	A6	Mercury, total	mg/L	11/20/2015 - 02/15/2023	14	86	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Mercury, total	mg/L	11/20/2015 - 06/05/2023	15	87	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
G304/G307	UA	A6	Molybdenum, total	mg/L	11/20/2015 - 02/15/2023	19	0	CI around median	0.0012	0.1	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Molybdenum, total	mg/L	11/20/2015 - 06/05/2023	20	5.0	CI around geomean	0.00119	0.1	MCL/HBL	No Exceedance
G304/G307	UA	A6	Radium 226 + Radium 228, total	pCi/L	11/20/2015 - 02/15/2023	19	0	CI around mean	0.543	5	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Radium 226 + Radium 228, total	pCi/L	11/20/2015 - 06/05/2023	20	0	CI around mean	0.541	5	MCL/HBL	No Exceedance
G304/G307	UA	A6	Selenium, total	mg/L	11/20/2015 - 02/15/2023	18	83	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Selenium, total	mg/L	11/20/2015 - 06/05/2023	19	84	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G304/G307	UA	A6	Thallium, total	mg/L	11/20/2015 - 02/15/2023	14	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G304/G307	UA	A6R	Thallium, total	mg/L	11/20/2015 - 06/05/2023	15	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G305	UA	A6	Antimony, total	mg/L	05/19/2016 - 02/15/2023	6	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G305	UA	A6R	Antimony, total	mg/L	05/19/2016 - 06/06/2023	7	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G305	UA	A6	Arsenic, total	mg/L	05/19/2016 - 02/15/2023	6	50	CI around median (Last Sample, n<7)	0.0061	0.010	MCL/HBL	No Exceedance
G305	UA	A6R	Arsenic, total	mg/L	05/19/2016 - 06/06/2023	7	43	CI around geomean	0.000741	0.010	MCL/HBL	No Exceedance
G305	UA	A6	Barium, total	mg/L	05/19/2016 - 02/15/2023	6	0	CI around mean	0.0202	2.0	MCL/HBL	No Exceedance
G305	UA	A6R	Barium, total	mg/L	05/19/2016 - 06/06/2023	7	0	CI around mean	0.0241	2.0	MCL/HBL	No Exceedance
G305	UA	A6	Beryllium, total	mg/L	05/19/2016 - 02/15/2023	6	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G305	UA	A6R	Beryllium, total	mg/L	05/19/2016 - 06/06/2023	7	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G305	UA	A6	Cadmium, total	mg/L	05/19/2016 - 02/15/2023	6	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G305	UA	A6R	Cadmium, total	mg/L	05/19/2016 - 06/06/2023	7	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G305	UA	A6	Chromium, total	mg/L	05/19/2016 - 02/15/2023	6	50	CI around mean	-0.00167	0.1	MCL/HBL	No Exceedance
G305	UA	A6R	Chromium, total	mg/L	05/19/2016 - 06/06/2023	7	43	CI around mean	0.000287	0.1	MCL/HBL	No Exceedance
G305	UA	A6	Cobalt, total	mg/L	05/19/2016 - 02/15/2023	6	67	CI around median (Last Sample, n<7)	0.0068	0.00640	Background	Exceedance Not Confirmed
G305	UA	A6R	Cobalt, total	mg/L	05/19/2016 - 06/06/2023	7	57	CI around median	0.002	0.00640	Background	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G305	UA	A6	Fluoride, total	mg/L	05/19/2016 - 02/15/2023	6	0	CI around mean	0.33	4.0	MCL/HBL	No Exceedance
G305	UA	A6R	Fluoride, total	mg/L	05/19/2016 - 06/06/2023	7	0	CI around mean	0.294	4.0	MCL/HBL	No Exceedance
G305	UA	A6	Lead, total	mg/L	05/19/2016 - 02/15/2023	6	0	CI around geomean	0.000733	0.015	MCL/HBL	No Exceedance
G305	UA	A6R	Lead, total	mg/L	05/19/2016 - 06/06/2023	7	0	CI around geomean	0.0011	0.015	MCL/HBL	No Exceedance
G305	UA	A6	Lithium, total	mg/L	05/19/2016 - 02/15/2023	6	50	CI around mean	0.00747	0.04	MCL/HBL	No Exceedance
G305	UA	A6R	Lithium, total	mg/L	05/19/2016 - 06/06/2023	7	57	CI around median	0.01	0.04	MCL/HBL	No Exceedance
G305	UA	A6	Mercury, total	mg/L	05/19/2016 - 02/15/2023	6	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G305	UA	A6R	Mercury, total	mg/L	05/19/2016 - 06/06/2023	7	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G305	UA	A6	Molybdenum, total	mg/L	05/19/2016 - 02/15/2023	6	33	CI around mean	0.000521	0.1	MCL/HBL	No Exceedance
G305	UA	A6R	Molybdenum, total	mg/L	05/19/2016 - 06/06/2023	7	43	CI around mean	0.00061	0.1	MCL/HBL	No Exceedance
G305	UA	A6	Radium 226 + Radium 228, total	pCi/L	05/19/2016 - 02/15/2023	6	0	CI around mean	0.355	5	MCL/HBL	No Exceedance
G305	UA	A6R	Radium 226 + Radium 228, total	pCi/L	05/19/2016 - 06/06/2023	7	0	CI around mean	0.428	5	MCL/HBL	No Exceedance
G305	UA	A6	Selenium, total	mg/L	05/19/2016 - 02/15/2023	6	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G305	UA	A6R	Selenium, total	mg/L	05/19/2016 - 06/06/2023	7	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G305	UA	A6	Thallium, total	mg/L	05/19/2016 - 02/15/2023	6	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G305	UA	A6R	Thallium, total	mg/L	05/19/2016 - 06/06/2023	7	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G307D	LCU	A6	Antimony, total	mg/L	03/29/2021 - 02/15/2023	6	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G307D	LCU	A6R	Antimony, total	mg/L	03/29/2021 - 06/05/2023	7	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G307D	LCU	A6	Arsenic, total	mg/L	03/29/2021 - 02/15/2023	6	33	CI around median (Last Sample, n<7)	0.0072	0.010	MCL/HBL	No Exceedance
G307D	LCU	A6R	Arsenic, total	mg/L	03/29/2021 - 06/05/2023	7	29	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G307D	LCU	A6	Barium, total	mg/L	03/29/2021 - 02/15/2023	6	0	CI around mean	0.0322	2.0	MCL/HBL	No Exceedance
G307D	LCU	A6R	Barium, total	mg/L	03/29/2021 - 06/05/2023	7	0	CI around mean	0.0318	2.0	MCL/HBL	No Exceedance
G307D	LCU	A6	Beryllium, total	mg/L	03/29/2021 - 02/15/2023	6	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G307D	LCU	A6R	Beryllium, total	mg/L	03/29/2021 - 06/05/2023	7	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G307D	LCU	A6	Cadmium, total	mg/L	03/29/2021 - 02/15/2023	6	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G307D	LCU	A6R	Cadmium, total	mg/L	03/29/2021 - 06/05/2023	7	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G307D	LCU	A6	Chromium, total	mg/L	03/29/2021 - 02/15/2023	6	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G307D	LCU	A6R	Chromium, total	mg/L	03/29/2021 - 06/05/2023	7	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G307D	LCU	A6	Cobalt, total	mg/L	03/29/2021 - 02/15/2023	6	100	All ND - Last	0.002	0.00640	Background	No Exceedance
G307D	LCU	A6R	Cobalt, total	mg/L	03/29/2021 - 06/05/2023	7	100	All ND - Last	0.002	0.00640	Background	No Exceedance
G307D	LCU	A6	Fluoride, total	mg/L	03/29/2021 - 02/15/2023	5	0	CI around mean	0.42	4.0	MCL/HBL	No Exceedance
G307D	LCU	A6R	Fluoride, total	mg/L	03/29/2021 - 06/05/2023	6	0	CI around mean	0.464	4.0	MCL/HBL	No Exceedance
G307D	LCU	A6	Lead, total	mg/L	03/29/2021 - 02/15/2023	6	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
G307D	LCU	A6R	Lead, total	mg/L	03/29/2021 - 06/05/2023	7	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
G307D	LCU	A6	Lithium, total	mg/L	03/29/2021 - 02/15/2023	6	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G307D	LCU	A6R	Lithium, total	mg/L	03/29/2021 - 06/05/2023	7	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G307D	LCU	A6	Mercury, total	mg/L	03/29/2021 - 02/15/2023	6	83	CI around median (Last Sample, n<7)	0.0002	0.002	MCL/HBL	No Exceedance
G307D	LCU	A6R	Mercury, total	mg/L	03/29/2021 - 06/05/2023	7	86	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
G307D	LCU	A6	Molybdenum, total	mg/L	03/29/2021 - 02/15/2023	6	0	CI around mean	0.00823	0.1	MCL/HBL	No Exceedance
G307D	LCU	A6R	Molybdenum, total	mg/L	03/29/2021 - 06/05/2023	7	0	CI around mean	0.00629	0.1	MCL/HBL	No Exceedance
G307D	LCU	A6	Radium 226 + Radium 228, total	pCi/L	03/29/2021 - 02/15/2023	7	0	CI around mean	0.0014	5	MCL/HBL	No Exceedance
G307D	LCU	A6R	Radium 226 + Radium 228, total	pCi/L	03/29/2021 - 06/05/2023	8	0	CI around mean	0.113	5	MCL/HBL	No Exceedance
G307D	LCU	A6	Selenium, total	mg/L	03/29/2021 - 02/15/2023	6	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G307D	LCU	A6R	Selenium, total	mg/L	03/29/2021 - 06/05/2023	7	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G307D	LCU	A6	Thallium, total	mg/L	03/29/2021 - 02/15/2023	6	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G307D	LCU	A6R	Thallium, total	mg/L	03/29/2021 - 06/05/2023	7	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G308	UA	A6	Antimony, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G308	UA	A6R	Antimony, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G308	UA	A6	Arsenic, total	mg/L	03/29/2021 - 02/16/2023	9	89	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G308	UA	A6R	Arsenic, total	mg/L	03/29/2021 - 06/01/2023	10	90	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G308	UA	A6	Barium, total	mg/L	03/29/2021 - 02/16/2023	9	0	CI around mean	0.0201	2.0	MCL/HBL	No Exceedance
G308	UA	A6R	Barium, total	mg/L	03/29/2021 - 06/01/2023	10	0	CI around mean	0.0202	2.0	MCL/HBL	No Exceedance
G308	UA	A6	Beryllium, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G308	UA	A6R	Beryllium, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G308	UA	A6	Cadmium, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G308	UA	A6R	Cadmium, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G308	UA	A6	Chromium, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G308	UA	A6R	Chromium, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G308	UA	A6	Cobalt, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.002	0.00640	Background	No Exceedance
G308	UA	A6R	Cobalt, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.002	0.00640	Background	No Exceedance
G308	UA	A6	Fluoride, total	mg/L	03/29/2021 - 02/16/2023	9	11	CI around geomean	0.481	4.0	MCL/HBL	No Exceedance
G308	UA	A6R	Fluoride, total	mg/L	03/29/2021 - 06/01/2023	10	10	CI around geomean	0.475	4.0	MCL/HBL	No Exceedance
G308	UA	A6	Lead, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
G308	UA	A6R	Lead, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
G308	UA	A6	Lithium, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G308	UA	A6R	Lithium, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G308	UA	A6	Mercury, total	mg/L	03/29/2021 - 02/16/2023	9	89	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
G308	UA	A6R	Mercury, total	mg/L	03/29/2021 - 06/01/2023	10	90	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
G308	UA	A6	Molybdenum, total	mg/L	03/29/2021 - 02/16/2023	9	11	CI around median	0.0012	0.1	MCL/HBL	No Exceedance
G308	UA	A6R	Molybdenum, total	mg/L	03/29/2021 - 06/01/2023	10	10	CI around median	0.0012	0.1	MCL/HBL	No Exceedance
G308	UA	A6	Radium 226 + Radium 228, total	pCi/L	03/29/2021 - 02/16/2023	8	0	CI around mean	-0.00406	5	MCL/HBL	No Exceedance
G308	UA	A6R	Radium 226 + Radium 228, total	pCi/L	03/29/2021 - 06/01/2023	9	0	CI around mean	0.0429	5	MCL/HBL	No Exceedance
G308	UA	A6	Selenium, total	mg/L	03/29/2021 - 02/16/2023	9	89	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G308	UA	A6R	Selenium, total	mg/L	03/29/2021 - 06/01/2023	10	90	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G308	UA	A6	Thallium, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G308	UA	A6R	Thallium, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G310	UA	A6	Antimony, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G310	UA	A6R	Antimony, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G310	UA	A6	Arsenic, total	mg/L	03/29/2021 - 02/16/2023	9	89	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G310	UA	A6R	Arsenic, total	mg/L	03/29/2021 - 06/01/2023	10	90	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G310	UA	A6	Barium, total	mg/L	03/29/2021 - 02/16/2023	9	0	CI around mean	0.0151	2.0	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G310	UA	A6R	Barium, total	mg/L	03/29/2021 - 06/01/2023	10	0	CI around mean	0.0148	2.0	MCL/HBL	No Exceedance
G310	UA	A6	Beryllium, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G310	UA	A6R	Beryllium, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G310	UA	A6	Cadmium, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G310	UA	A6R	Cadmium, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G310	UA	A6	Chromium, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G310	UA	A6R	Chromium, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G310	UA	A6	Cobalt, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.002	0.00640	Background	No Exceedance
G310	UA	A6R	Cobalt, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.002	0.00640	Background	No Exceedance
G310	UA	A6	Fluoride, total	mg/L	03/29/2021 - 02/16/2023	9	11	CI around mean	0.215	4.0	MCL/HBL	No Exceedance
G310	UA	A6R	Fluoride, total	mg/L	03/29/2021 - 06/01/2023	10	20	CI around mean	0.256	4.0	MCL/HBL	No Exceedance
G310	UA	A6	Lead, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
G310	UA	A6R	Lead, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
G310	UA	A6	Lithium, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G310	UA	A6R	Lithium, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G310	UA	A6	Mercury, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G310	UA	A6R	Mercury, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G310	UA	A6	Molybdenum, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
G310	UA	A6R	Molybdenum, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
G310	UA	A6	Radium 226 + Radium 228, total	pCi/L	03/29/2021 - 02/16/2023	8	0	CI around mean	-0.188	5	MCL/HBL	No Exceedance
G310	UA	A6R	Radium 226 + Radium 228, total	pCi/L	03/29/2021 - 06/01/2023	9	0	CI around mean	-0.0304	5	MCL/HBL	No Exceedance
G310	UA	A6	Selenium, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G310	UA	A6R	Selenium, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G310	UA	A6	Thallium, total	mg/L	03/29/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G310	UA	A6R	Thallium, total	mg/L	03/29/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G312	UA	A6	Antimony, total	mg/L	--	--	--	--	--	0.006	MCL/HBL	--
G312	UA	A6R	Antimony, total	mg/L	03/30/2021 - 06/01/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G312	UA	A6	Arsenic, total	mg/L	--	--	--	--	--	0.010	MCL/HBL	--
G312	UA	A6R	Arsenic, total	mg/L	03/30/2021 - 06/01/2023	9	89	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G312	UA	A6	Barium, total	mg/L	--	--	--	--	--	2.0	MCL/HBL	--
G312	UA	A6R	Barium, total	mg/L	03/30/2021 - 06/01/2023	9	0	CI around mean	0.0239	2.0	MCL/HBL	No Exceedance
G312	UA	A6	Beryllium, total	mg/L	--	--	--	--	--	0.004	MCL/HBL	--
G312	UA	A6R	Beryllium, total	mg/L	03/30/2021 - 06/01/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G312	UA	A6	Cadmium, total	mg/L	--	--	--	--	--	0.005	MCL/HBL	--
G312	UA	A6R	Cadmium, total	mg/L	03/30/2021 - 06/01/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G312	UA	A6	Chromium, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
G312	UA	A6R	Chromium, total	mg/L	03/30/2021 - 06/01/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G312	UA	A6	Cobalt, total	mg/L	--	--	--	--	--	0.00640	Background	--
G312	UA	A6R	Cobalt, total	mg/L	03/30/2021 - 06/01/2023	9	33	CI around mean	0.00214	0.00640	Background	No Exceedance
G312	UA	A6	Fluoride, total	mg/L	--	--	--	--	--	4.0	MCL/HBL	--
G312	UA	A6R	Fluoride, total	mg/L	03/30/2021 - 06/01/2023	9	89	CI around median	0.25	4.0	MCL/HBL	No Exceedance
G312	UA	A6	Lead, total	mg/L	--	--	--	--	--	0.015	MCL/HBL	--
G312	UA	A6R	Lead, total	mg/L	03/30/2021 - 06/01/2023	9	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
G312	UA	A6	Lithium, total	mg/L	--	--	--	--	--	0.04	MCL/HBL	--
G312	UA	A6R	Lithium, total	mg/L	03/30/2021 - 06/01/2023	9	78	CI around median	0.02	0.04	MCL/HBL	No Exceedance
G312	UA	A6	Mercury, total	mg/L	--	--	--	--	--	0.002	MCL/HBL	--
G312	UA	A6R	Mercury, total	mg/L	03/30/2021 - 06/01/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G312	UA	A6	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
G312	UA	A6R	Molybdenum, total	mg/L	03/30/2021 - 06/01/2023	9	89	CI around median	0.001	0.1	MCL/HBL	No Exceedance
G312	UA	A6	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
G312	UA	A6R	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 06/01/2023	8	0	CB around linear reg	-0.543	5	MCL/HBL	No Exceedance
G312	UA	A6	Selenium, total	mg/L	--	--	--	--	--	0.05	MCL/HBL	--
G312	UA	A6R	Selenium, total	mg/L	03/30/2021 - 06/01/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G312	UA	A6	Thallium, total	mg/L	--	--	--	--	--	0.002	MCL/HBL	--

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G312	UA	A6R	Thallium, total	mg/L	03/30/2021 - 06/01/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G313	UA	A6	Antimony, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G313	UA	A6R	Antimony, total	mg/L	03/30/2021 - 06/06/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G313	UA	A6	Arsenic, total	mg/L	03/30/2021 - 02/16/2023	9	78	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G313	UA	A6R	Arsenic, total	mg/L	03/30/2021 - 06/06/2023	10	80	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G313	UA	A6	Barium, total	mg/L	03/30/2021 - 02/16/2023	9	0	CB around linear reg	0.0104	2.0	MCL/HBL	No Exceedance
G313	UA	A6R	Barium, total	mg/L	03/30/2021 - 06/06/2023	10	0	CB around linear reg	0.0125	2.0	MCL/HBL	No Exceedance
G313	UA	A6	Beryllium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G313	UA	A6R	Beryllium, total	mg/L	03/30/2021 - 06/06/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G313	UA	A6	Cadmium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G313	UA	A6R	Cadmium, total	mg/L	03/30/2021 - 06/06/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G313	UA	A6	Chromium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G313	UA	A6R	Chromium, total	mg/L	03/30/2021 - 06/06/2023	10	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G313	UA	A6	Cobalt, total	mg/L	03/30/2021 - 02/16/2023	9	78	CI around median	0.002	0.00640	Background	No Exceedance
G313	UA	A6R	Cobalt, total	mg/L	03/30/2021 - 06/06/2023	10	80	CI around median	0.002	0.00640	Background	No Exceedance
G313	UA	A6	Fluoride, total	mg/L	03/30/2021 - 02/16/2023	9	0	CI around mean	0.254	4.0	MCL/HBL	No Exceedance
G313	UA	A6R	Fluoride, total	mg/L	03/30/2021 - 06/06/2023	10	10	CI around mean	0.217	4.0	MCL/HBL	No Exceedance
G313	UA	A6	Lead, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
G313	UA	A6R	Lead, total	mg/L	03/30/2021 - 06/06/2023	10	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
G313	UA	A6	Lithium, total	mg/L	03/30/2021 - 02/16/2023	9	44	CI around median	0.02	0.04	MCL/HBL	No Exceedance
G313	UA	A6R	Lithium, total	mg/L	03/30/2021 - 06/06/2023	10	50	CI around median	0.02	0.04	MCL/HBL	No Exceedance
G313	UA	A6	Mercury, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G313	UA	A6R	Mercury, total	mg/L	03/30/2021 - 06/06/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G313	UA	A6	Molybdenum, total	mg/L	03/30/2021 - 02/16/2023	9	11	CI around median	0.0011	0.1	MCL/HBL	No Exceedance
G313	UA	A6R	Molybdenum, total	mg/L	03/30/2021 - 06/06/2023	10	10	CI around median	0.0011	0.1	MCL/HBL	No Exceedance
G313	UA	A6	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 02/16/2023	8	0	CI around mean	0.102	5	MCL/HBL	No Exceedance
G313	UA	A6R	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 06/06/2023	9	0	CI around mean	0.172	5	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G313	UA	A6	Selenium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G313	UA	A6R	Selenium, total	mg/L	03/30/2021 - 06/06/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G313	UA	A6	Thallium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G313	UA	A6R	Thallium, total	mg/L	03/30/2021 - 06/06/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G314	LCU	A6	Antimony, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G314	LCU	A6R	Antimony, total	mg/L	03/30/2021 - 06/01/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G314	LCU	A6	Arsenic, total	mg/L	03/30/2021 - 02/16/2023	9	78	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G314	LCU	A6R	Arsenic, total	mg/L	03/30/2021 - 06/01/2023	10	70	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G314	LCU	A6	Barium, total	mg/L	03/30/2021 - 02/16/2023	9	0	CB around linear reg	-0.00125	2.0	MCL/HBL	No Exceedance
G314	LCU	A6R	Barium, total	mg/L	03/30/2021 - 06/01/2023	10	0	CI around mean	0.0185	2.0	MCL/HBL	No Exceedance
G314	LCU	A6	Beryllium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G314	LCU	A6R	Beryllium, total	mg/L	03/30/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G314	LCU	A6	Cadmium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G314	LCU	A6R	Cadmium, total	mg/L	03/30/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G314	LCU	A6	Chromium, total	mg/L	03/30/2021 - 02/16/2023	9	89	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G314	LCU	A6R	Chromium, total	mg/L	03/30/2021 - 06/01/2023	10	90	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G314	LCU	A6	Cobalt, total	mg/L	03/30/2021 - 02/16/2023	9	11	CI around mean	0.00277	0.00640	Background	No Exceedance
G314	LCU	A6R	Cobalt, total	mg/L	03/30/2021 - 06/01/2023	10	10	CI around mean	0.00285	0.00640	Background	No Exceedance
G314	LCU	A6	Fluoride, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.25	4.0	MCL/HBL	No Exceedance
G314	LCU	A6R	Fluoride, total	mg/L	03/30/2021 - 06/01/2023	10	100	All ND - Last	0.25	4.0	MCL/HBL	No Exceedance
G314	LCU	A6	Lead, total	mg/L	03/30/2021 - 02/16/2023	9	89	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G314	LCU	A6R	Lead, total	mg/L	03/30/2021 - 06/01/2023	10	80	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G314	LCU	A6	Lithium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G314	LCU	A6R	Lithium, total	mg/L	03/30/2021 - 06/01/2023	10	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G314	LCU	A6	Mercury, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G314	LCU	A6R	Mercury, total	mg/L	03/30/2021 - 06/01/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G314	LCU	A6	Molybdenum, total	mg/L	03/30/2021 - 02/16/2023	9	0	CB around linear reg	-0.0103	0.1	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G314	LCU	A6R	Molybdenum, total	mg/L	03/30/2021 - 06/01/2023	10	0	CB around linear reg	-0.00569	0.1	MCL/HBL	No Exceedance
G314	LCU	A6	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 02/16/2023	8	0	CI around mean	0.329	5	MCL/HBL	No Exceedance
G314	LCU	A6R	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 06/01/2023	9	0	CI around mean	0.42	5	MCL/HBL	No Exceedance
G314	LCU	A6	Selenium, total	mg/L	03/30/2021 - 02/16/2023	9	78	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G314	LCU	A6R	Selenium, total	mg/L	03/30/2021 - 06/01/2023	10	80	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G314	LCU	A6	Thallium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G314	LCU	A6R	Thallium, total	mg/L	03/30/2021 - 06/01/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G314D	DA	A6	Antimony, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G314D	DA	A6R	Antimony, total	mg/L	03/30/2021 - 06/01/2023	7	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G314D	DA	A6	Arsenic, total	mg/L	03/30/2021 - 02/16/2023	6	50	CI around median (Last Sample, n<7)	0.0025	0.010	MCL/HBL	No Exceedance
G314D	DA	A6R	Arsenic, total	mg/L	03/30/2021 - 06/01/2023	7	57	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G314D	DA	A6	Barium, total	mg/L	03/30/2021 - 02/16/2023	6	0	CI around mean	0.0391	2.0	MCL/HBL	No Exceedance
G314D	DA	A6R	Barium, total	mg/L	03/30/2021 - 06/01/2023	7	0	CI around mean	0.0272	2.0	MCL/HBL	No Exceedance
G314D	DA	A6	Beryllium, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G314D	DA	A6R	Beryllium, total	mg/L	03/30/2021 - 06/01/2023	7	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G314D	DA	A6	Cadmium, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G314D	DA	A6R	Cadmium, total	mg/L	03/30/2021 - 06/01/2023	7	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G314D	DA	A6	Chromium, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G314D	DA	A6R	Chromium, total	mg/L	03/30/2021 - 06/01/2023	7	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G314D	DA	A6	Cobalt, total	mg/L	03/30/2021 - 02/16/2023	6	83	CI around median (Last Sample, n<7)	0.0027	0.00640	Background	No Exceedance
G314D	DA	A6R	Cobalt, total	mg/L	03/30/2021 - 06/01/2023	7	86	CI around median	0.002	0.00640	Background	No Exceedance
G314D	DA	A6	Fluoride, total	mg/L	03/30/2021 - 02/16/2023	5	0	CI around mean	0.455	4.0	MCL/HBL	No Exceedance
G314D	DA	A6R	Fluoride, total	mg/L	03/30/2021 - 06/01/2023	6	0	CI around mean	0.491	4.0	MCL/HBL	No Exceedance
G314D	DA	A6	Lead, total	mg/L	03/30/2021 - 02/16/2023	6	67	CI around median (Last Sample, n<7)	0.0011	0.015	MCL/HBL	No Exceedance
G314D	DA	A6R	Lead, total	mg/L	03/30/2021 - 06/01/2023	7	71	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G314D	DA	A6	Lithium, total	mg/L	03/30/2021 - 02/16/2023	6	50	CI around mean	0.0186	0.04	MCL/HBL	No Exceedance
G314D	DA	A6R	Lithium, total	mg/L	03/30/2021 - 06/01/2023	7	57	CI around median	0.02	0.04	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G314D	DA	A6	Mercury, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G314D	DA	A6R	Mercury, total	mg/L	03/30/2021 - 06/01/2023	7	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G314D	DA	A6	Molybdenum, total	mg/L	03/30/2021 - 02/16/2023	6	0	CI around mean	0.00485	0.1	MCL/HBL	No Exceedance
G314D	DA	A6R	Molybdenum, total	mg/L	03/30/2021 - 06/01/2023	7	0	CI around mean	0.00344	0.1	MCL/HBL	No Exceedance
G314D	DA	A6	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 02/16/2023	6	0	CI around mean	1.23	5	MCL/HBL	No Exceedance
G314D	DA	A6R	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 06/01/2023	7	0	CI around mean	1.5	5	MCL/HBL	No Exceedance
G314D	DA	A6	Selenium, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G314D	DA	A6R	Selenium, total	mg/L	03/30/2021 - 06/01/2023	7	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G314D	DA	A6	Thallium, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G314D	DA	A6R	Thallium, total	mg/L	03/30/2021 - 06/01/2023	7	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G315	UA	A6	Antimony, total	mg/L	03/30/2021 - 02/15/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G315	UA	A6R	Antimony, total	mg/L	03/30/2021 - 06/07/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G315	UA	A6	Arsenic, total	mg/L	03/30/2021 - 02/15/2023	9	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
G315	UA	A6R	Arsenic, total	mg/L	03/30/2021 - 06/07/2023	10	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
G315	UA	A6	Barium, total	mg/L	03/30/2021 - 02/15/2023	9	0	CI around mean	0.021	2.0	MCL/HBL	No Exceedance
G315	UA	A6R	Barium, total	mg/L	03/30/2021 - 06/07/2023	10	0	CI around mean	0.0211	2.0	MCL/HBL	No Exceedance
G315	UA	A6	Beryllium, total	mg/L	03/30/2021 - 02/15/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G315	UA	A6R	Beryllium, total	mg/L	03/30/2021 - 06/07/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G315	UA	A6	Cadmium, total	mg/L	03/30/2021 - 02/15/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G315	UA	A6R	Cadmium, total	mg/L	03/30/2021 - 06/07/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G315	UA	A6	Chromium, total	mg/L	03/30/2021 - 02/15/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G315	UA	A6R	Chromium, total	mg/L	03/30/2021 - 06/07/2023	10	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G315	UA	A6	Cobalt, total	mg/L	03/30/2021 - 02/15/2023	9	100	All ND - Last	0.002	0.00640	Background	No Exceedance
G315	UA	A6R	Cobalt, total	mg/L	03/30/2021 - 06/07/2023	10	100	All ND - Last	0.002	0.00640	Background	No Exceedance
G315	UA	A6	Fluoride, total	mg/L	03/30/2021 - 02/15/2023	9	0	CI around mean	0.254	4.0	MCL/HBL	No Exceedance
G315	UA	A6R	Fluoride, total	mg/L	03/30/2021 - 06/07/2023	10	0	CI around mean	0.259	4.0	MCL/HBL	No Exceedance
G315	UA	A6	Lead, total	mg/L	03/30/2021 - 02/15/2023	9	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G315	UA	A6R	Lead, total	mg/L	03/30/2021 - 06/07/2023	10	90	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G315	UA	A6	Lithium, total	mg/L	03/30/2021 - 02/15/2023	9	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G315	UA	A6R	Lithium, total	mg/L	03/30/2021 - 06/07/2023	10	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G315	UA	A6	Mercury, total	mg/L	03/30/2021 - 02/15/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G315	UA	A6R	Mercury, total	mg/L	03/30/2021 - 06/07/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G315	UA	A6	Molybdenum, total	mg/L	03/30/2021 - 02/15/2023	9	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
G315	UA	A6R	Molybdenum, total	mg/L	03/30/2021 - 06/07/2023	10	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
G315	UA	A6	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 02/15/2023	8	0	CI around mean	0.00678	5	MCL/HBL	No Exceedance
G315	UA	A6R	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 06/07/2023	9	0	CI around mean	0.0593	5	MCL/HBL	No Exceedance
G315	UA	A6	Selenium, total	mg/L	03/30/2021 - 02/15/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G315	UA	A6R	Selenium, total	mg/L	03/30/2021 - 06/07/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G315	UA	A6	Thallium, total	mg/L	03/30/2021 - 02/15/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G315	UA	A6R	Thallium, total	mg/L	03/30/2021 - 06/07/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G316	LCU	A6	Antimony, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G316	LCU	A6R	Antimony, total	mg/L	03/30/2021 - 05/31/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G316	LCU	A6	Arsenic, total	mg/L	03/30/2021 - 02/16/2023	9	0	CB around linear reg	0.00767	0.010	MCL/HBL	No Exceedance
G316	LCU	A6R	Arsenic, total	mg/L	03/30/2021 - 05/31/2023	10	0	CI around mean	0.0067	0.010	MCL/HBL	No Exceedance
G316	LCU	A6	Barium, total	mg/L	03/30/2021 - 02/16/2023	9	0	CI around mean	0.0608	2.0	MCL/HBL	No Exceedance
G316	LCU	A6R	Barium, total	mg/L	03/30/2021 - 05/31/2023	10	0	CI around mean	0.0614	2.0	MCL/HBL	No Exceedance
G316	LCU	A6	Beryllium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G316	LCU	A6R	Beryllium, total	mg/L	03/30/2021 - 05/31/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
G316	LCU	A6	Cadmium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G316	LCU	A6R	Cadmium, total	mg/L	03/30/2021 - 05/31/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G316	LCU	A6	Chromium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G316	LCU	A6R	Chromium, total	mg/L	03/30/2021 - 05/31/2023	10	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G316	LCU	A6	Cobalt, total	mg/L	03/30/2021 - 02/16/2023	9	0	CB around linear reg	0.00197	0.00640	Background	No Exceedance
G316	LCU	A6R	Cobalt, total	mg/L	03/30/2021 - 05/31/2023	10	0	CB around linear reg	0.00204	0.00640	Background	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

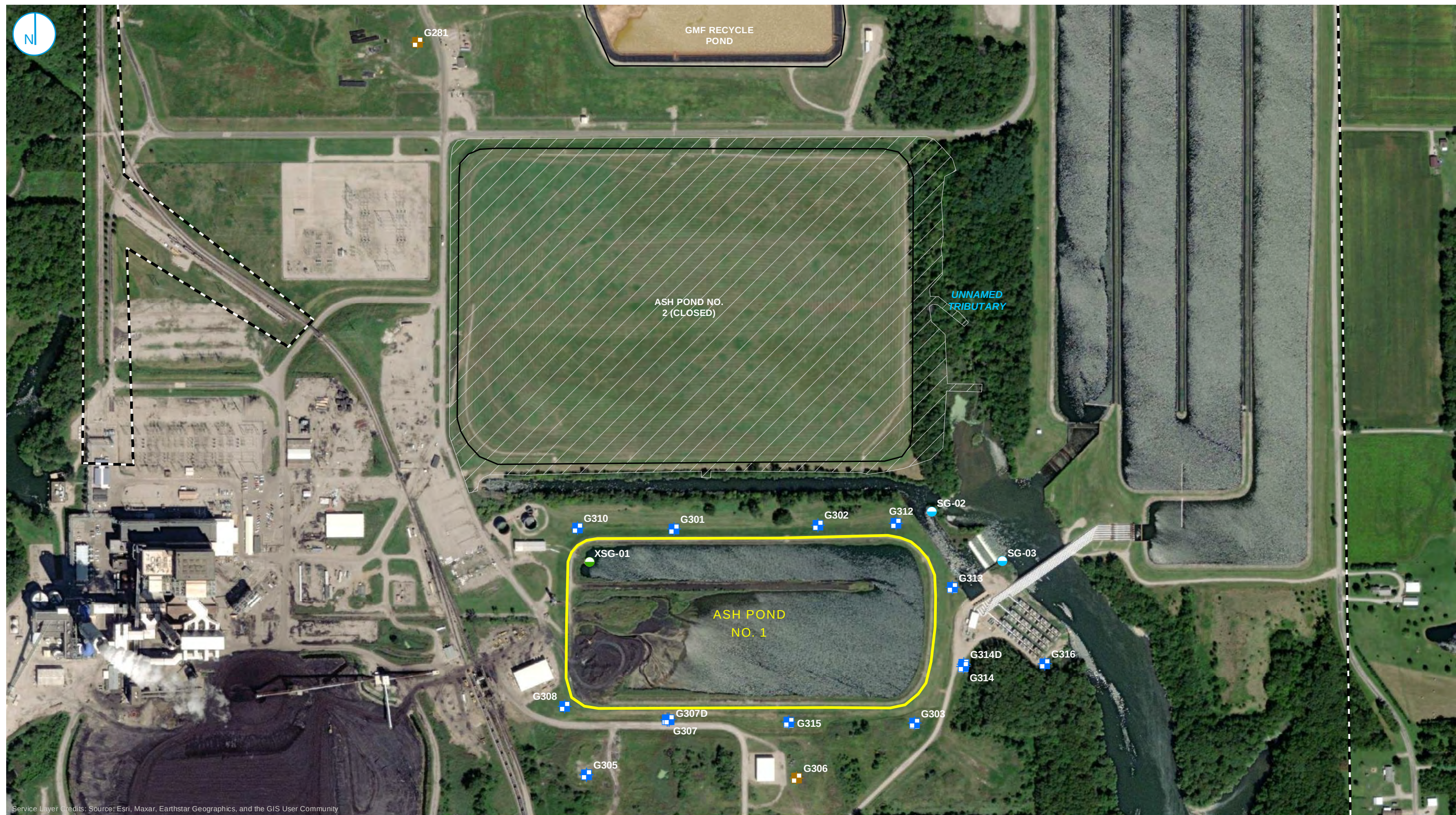
Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G316	LCU	A6	Fluoride, total	mg/L	03/30/2021 - 02/16/2023	9	56	CI around median	0.25	4.0	MCL/HBL	No Exceedance
G316	LCU	A6R	Fluoride, total	mg/L	03/30/2021 - 05/31/2023	10	60	CI around median	0.25	4.0	MCL/HBL	No Exceedance
G316	LCU	A6	Lead, total	mg/L	03/30/2021 - 02/16/2023	9	89	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G316	LCU	A6R	Lead, total	mg/L	03/30/2021 - 05/31/2023	10	90	CI around median	0.001	0.015	MCL/HBL	No Exceedance
G316	LCU	A6	Lithium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G316	LCU	A6R	Lithium, total	mg/L	03/30/2021 - 05/31/2023	10	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G316	LCU	A6	Mercury, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G316	LCU	A6R	Mercury, total	mg/L	03/30/2021 - 05/31/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G316	LCU	A6	Molybdenum, total	mg/L	03/30/2021 - 02/16/2023	9	0	CI around mean	0.00359	0.1	MCL/HBL	No Exceedance
G316	LCU	A6R	Molybdenum, total	mg/L	03/30/2021 - 05/31/2023	10	0	CI around mean	0.00364	0.1	MCL/HBL	No Exceedance
G316	LCU	A6	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 02/16/2023	8	0	CI around geomean	0.169	5	MCL/HBL	No Exceedance
G316	LCU	A6R	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 05/31/2023	9	0	CI around geomean	0.225	5	MCL/HBL	No Exceedance
G316	LCU	A6	Selenium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G316	LCU	A6R	Selenium, total	mg/L	03/30/2021 - 05/31/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G316	LCU	A6	Thallium, total	mg/L	03/30/2021 - 02/16/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G316	LCU	A6R	Thallium, total	mg/L	03/30/2021 - 05/31/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Notes:
- = no data available
Statistically Significant Level (SSL) Type:
No Exceedance: No exceedance of the GWPS and no resample was collected.
Exceedance Not Confirmed: An exceedance was determined in the parent event, a resample was collected, and the resample did not confirm the exceedance
GWPS = Groundwater Protection Standard
GWPS Source:
Background = background concentration
MCL/HBL = maximum contaminant level/health-based level
HSU = hydrostratigraphic unit:
DA = Deep Aquifer
LCU = Lower Confining Unit
UA = Uppermost Aquifer
ID = identification
mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
R = resample
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:
All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown
CB around T-S line = Confidence band around Thiel-Sen line
CB around linear reg = Confidence band around linear regression
CI around geomean = Confidence interval around the geometric mean
CI around mean = Confidence interval around the mean
CI around median = Confidence interval around the median
Statistical Result = calculated in accordance with Statistical Analysis Plan using constituent concentrations observed at monitoring well during all sampling events within the specified date range

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FIGURES



- | | |
|----------------------------|-------------------------------|
| COMPLIANCE MONITORING WELL | REGULATED UNIT (SUBJECT UNIT) |
| BACKGROUND MONITORING WELL | SITE FEATURE |
| STAFF GAGE, CCR UNIT | LIMITS OF FINAL COVER |
| STAFF GAGE, RIVER | PROPERTY BOUNDARY |

0 200 400
Feet

MONITORING WELL LOCATION MAP

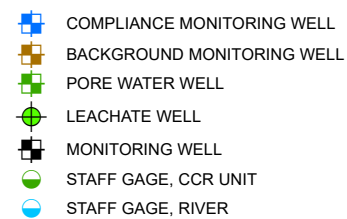
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT ASH POND NO.1

COFFEEN POWER PLANT
COFFEEN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





**2023 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
ASH POND NO. 1
COFFEE POWER PLANT
COFFEE, ILLINOIS**



FIGURE 2

NOTES:

1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- PORE WATER WELL
- LEACHATE WELL
- MONITORING WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, RIVER

- GROUNDWATER ELEVATION CONTOUR (2-
FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION
CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY
- SITE FEATURE

NOTES:
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

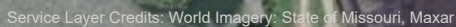
POTENTIOMETRIC SURFACE MAP
MAY 30, 2023

2023 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
ASH POND NO. 1
COFFEEN POWER PLANT
COFFEEN, ILLINOIS

FIGURE 3

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- | | |
|---|---|
|  | GROUNDWATER ELEVATION |
|  | CONTOUR (2-FT CONTOUR INTERVAL, NAVD88) |
|  | INFERRED GROUNDWATER |
|  | ELEVATION CONTOUR |
|  | GROUNDWATER FLOW DIRECTION |
|  | REGULATED UNIT (SUBJECT UNIT) |
|  | SITE FEATURE |
|  | LIMITS OF FINAL COVER |
|  | PROPERTY BOUNDARY |

1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATIONS IN BRACKETS WERE OBTAINED OUTSIDE OF THE 24-HOUR PERIOD FROM INITIATION OF DEPTH TO GROUNDWATER MEASUREMENTS BUT WITHIN THE SAME SAMPLING EVENT.
3. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

POTENTIOMETRIC SURFACE MAP
AUGUST 8, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT ASH POND NO. 1 COFFEE POWER PLANT COFFEE, ILLINOIS

FIGURE 4

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- PORE WATER WELL
- LEACHATE WELL
- MONITORING WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, RIVER

- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

NOTES:
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

POTENTIOMETRIC SURFACE MAP
NOVEMBER 13, 2023

2023 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
ASH POND NO. 1
COFFEEN POWER PLANT
COFFEEN, ILLINOIS

FIGURE 5

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



APPENDICES

APPENDIX A
LABORATORY REPORTS AND FIELD DATA SHEETS



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

June 22, 2023

John Romang
Vistra - Coffeen
134 CIPS Lane
Coffeen, IL 62017

Dear John Romang:

Please find enclosed the **revised** analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Gail J. Schindler

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com



SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GB02992

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GB03263

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GB03332

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided



Work Order GB03506

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GB03508

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Case Narrative

!-Ä>3(!9+!8+33(89!N&@!!B,(!8Ä46-0!,Ä4!4:-O!6-9+!0)+:-7!Ä-7!E(!Ä)(!:-Ä>3(!9+!+;(-@
R(?64(7!(!;+)9!Q!Ä77(7! case narrative



ANALYTICAL RESULTS

Sample: GB03506-10

Name: G281

Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 14:19

Received: 02/17/23 08:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.0779 U	pCi/L			1	0.637	03/23/23 14:27		904.0 903.0
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Sample: GB03506-11

Name: G306

Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 11:26

Received: 02/17/23 08:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.0469 U	pCi/L			1	0.619	03/23/23 14:27		904.0 903.0
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Sample: GB03506-12

Name: G308

Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 12:49

Received: 02/17/23 08:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.444 J	pCi/L			1	0.618	03/23/23 14:27		904.0 903.0
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Sample: GB03506-13

Name: G310

Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 13:48

Received: 02/17/23 08:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.771 J	pCi/L			1	0.814	03/23/23 14:27		904.0 903.0
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ANALYTICAL RESULTS

Sample: GB03506-14

Name: G313

Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 11:53

Received: 02/17/23 08:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.00922 U	pCi/L			1	0.653	03/23/23 14:27		904.0 903.0
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Sample: GB03506-15

Name: G314D

Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 10:57

Received: 02/17/23 08:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.74	pCi/L			1	0.667	03/23/23 14:27		904.0 903.0
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Sample: GB03506-16

Name: G314

Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 10:03

Received: 02/17/23 08:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.533 J	pCi/L			1	0.558	03/23/23 14:27		904.0 903.0
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Sample: GB03506-17

Name: G316

Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 10:25

Received: 02/17/23 08:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.202 U	pCi/L			1	0.626	03/24/23 10:08		904.0 903.0
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ANALYTICAL RESULTS

Sample: GB03508-06

Name: G301

Alias: COFFEEN GYPSUM STACK

Sampled: 02/15/23 13:30

Received: 02/16/23 14:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.766	pCi/L			1	0.57	03/27/23 10:20		904.0 903.0
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Sample: GB03508-07

Name: G302

Alias: COFFEEN GYPSUM STACK

Sampled: 02/15/23 12:30

Received: 02/16/23 14:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.133 U	pCi/L			1	0.558	03/27/23 10:20		904.0 903.0
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Sample: GB03508-08

Name: G303

Alias: COFFEEN GYPSUM STACK

Sampled: 02/15/23 15:52

Received: 02/16/23 14:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.412 J	pCi/L			1	0.59	03/27/23 10:20		904.0 903.0
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Sample: GB03508-09

Name: G305

Alias: COFFEEN GYPSUM STACK

Sampled: 02/15/23 14:52

Received: 02/16/23 14:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.22	pCi/L			1	0.918	03/27/23 10:20		904.0 903.0
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Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
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ANALYTICAL RESULTS

Sample: GB03508-10

Name: G307

Alias: COFFEEN GYPSUM STACK

Sampled: 02/15/23 15:24

Received: 02/16/23 14:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 1.15 pCi/L 1 0.611 03/27/23 10:20 904.0 903.0

Sample: GB03508-11

Name: G307D

Alias: COFFEEN GYPSUM STACK

Sampled: 02/15/23 16:25

Received: 02/16/23 14:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 1.34 pCi/L 1 0.683 03/27/23 10:20 904.0 903.0

Sample: GB03508-12

Name: G315

Alias: COFFEEN GYPSUM STACK

Sampled: 02/15/23 11:19

Received: 02/16/23 14:30

Matrix: Ground Water - Grab

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract 0.0669 U pCi/L 1 0.731 03/27/23 10:20 904.0 903.0

ANALYTICAL RESULTS

Sample: GB02992-22

Name: XSG-01

Matrix: Ground Water - Grab

Sampled: 02/13/23 14:31

Received: 02/15/23 16:00

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Field - PIA

Depth, From Measuring Point 5.4 Feet 02/13/23 14:31 1 02/13/23 14:31 FIELD Field*



ANALYTICAL RESULTS

Sample: GB02992-23
Name: SG-02
Matrix: Ground Water - Grab

Sampled: 02/13/23 15:48
Received: 02/15/23 16:00
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Field - PIA

Depth, From Measuring Point	7.25	Feet		02/13/23 15:48	1		02/13/23 15:48	FIELD	Field*
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Sample: GB02992-24
Name: SG-03
Matrix: Ground Water - Grab

Sampled: 02/13/23 12:42
Received: 02/15/23 16:00
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Field - PIA

Depth, From Measuring Point	9.55	Feet		02/13/23 12:42	1		02/13/23 12:42	FIELD	Field*
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ANALYTICAL RESULTS

Sample: GB03263-22
Name: G301
Matrix: Ground Water - Grab

Sampled: 02/15/23 13:30
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	13	mg/L		02/21/23 17:56	10	10	02/21/23 17:56	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/21/23 17:38	1	0.250	02/21/23 17:38	CRD	EPA 300.0 REV 2.1
Sulfate	560	mg/L		02/21/23 18:14	100	100	02/21/23 18:14	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	5.53	Feet		02/15/23 13:30	1		02/15/23 13:30	FIELD	Field*
Dissolved oxygen, Field	3.6	mg/L		02/15/23 13:30	1		02/15/23 13:30	FIELD	Field*
Oxidation Reduction Potential	151	mV		02/15/23 13:30	1	-500	02/15/23 13:30	FIELD	Field*
pH, Field Measured	7.05	pH Units		02/15/23 13:30	1		02/15/23 13:30	FIELD	Field*
Specific Conductance, Field Measured	1339	umhos/cm		02/15/23 13:30	1		02/15/23 13:30	FIELD	Field*
Temperature, Field Measured	12.6	°C		02/15/23 13:30	1		02/15/23 13:30	FIELD	Field*
Turbidity, Field Measured	3.96	NTU		02/15/23 13:30	1	0.00	02/15/23 13:30	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	160	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		02/17/23 10:45	1	26	02/17/23 16:40	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/21/23 08:55	5	3.0	02/22/23 16:53	JMW	EPA 6020A
Arsenic	1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:02	JMW	EPA 6020A
Barium	22	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:53	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:53	JMW	EPA 6020A
Boron	1900	ug/L		02/21/23 08:55	5	10	02/22/23 16:53	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:02	JMW	EPA 6020A
Calcium	120	mg/L		02/21/23 08:55	5	0.20	02/22/23 11:02	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/21/23 08:55	5	4.0	02/22/23 11:02	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/21/23 08:55	5	2.0	02/22/23 11:02	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:53	JMW	EPA 6020A
Magnesium	43	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:02	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/21/23 08:55	5	0.20	02/22/23 16:53	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:02	JMW	EPA 6020A
Potassium	1.7	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:02	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:02	JMW	EPA 6020A
Sodium	110	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:02	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03263-22

Name: G301

Matrix: Ground Water - Grab

Sampled: 02/15/23 13:30

Received: 02/16/23 14:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:53	JMW	EPA 6020A
Lithium	< 20	ug/L		02/21/23 08:55	1	20	02/22/23 14:13	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03263-23
Name: G302
Matrix: Ground Water - Grab

Sampled: 02/15/23 12:30
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	23	mg/L		02/21/23 19:27	10	10	02/21/23 19:27	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/21/23 19:09	1	0.250	02/21/23 19:09	CRD	EPA 300.0 REV 2.1
Sulfate	440	mg/L		02/21/23 19:45	100	100	02/21/23 19:45	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	7.54	Feet		02/15/23 12:30	1		02/15/23 12:30	FIELD	Field*
Dissolved oxygen, Field	3.0	mg/L		02/15/23 12:30	1		02/15/23 12:30	FIELD	Field*
Oxidation Reduction Potential	64.4	mV		02/15/23 12:30	1	-500	02/15/23 12:30	FIELD	Field*
pH, Field Measured	6.75	pH Units		02/15/23 12:30	1		02/15/23 12:30	FIELD	Field*
Specific Conductance, Field Measured	1637	umhos/cm		02/15/23 12:30	1		02/15/23 12:30	FIELD	Field*
Temperature, Field Measured	12.7	°C		02/15/23 12:30	1		02/15/23 12:30	FIELD	Field*
Turbidity, Field Measured	20.2	NTU		02/15/23 12:30	1	0.00	02/15/23 12:30	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	450	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1200	mg/L		02/17/23 10:45	1	26	02/17/23 16:40	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/21/23 08:55	5	3.0	02/22/23 16:56	JMW	EPA 6020A
Arsenic	2.4	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:06	JMW	EPA 6020A
Barium	49	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:56	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:56	JMW	EPA 6020A
Boron	1900	ug/L		02/21/23 08:55	5	10	02/22/23 16:56	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:06	JMW	EPA 6020A
Calcium	180	mg/L		02/21/23 08:55	5	0.20	02/22/23 11:06	JMW	EPA 6020A
Chromium	4.0	ug/L		02/21/23 08:55	5	4.0	02/22/23 11:06	JMW	EPA 6020A
Cobalt	3.0	ug/L		02/21/23 08:55	5	2.0	02/22/23 11:06	JMW	EPA 6020A
Lead	3.4	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:56	JMW	EPA 6020A
Magnesium	71	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:06	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/21/23 08:55	5	0.20	02/22/23 16:56	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:06	JMW	EPA 6020A
Potassium	1.5	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:06	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:06	JMW	EPA 6020A
Sodium	110	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:06	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03263-23

Name: G302

Matrix: Ground Water - Grab

Sampled: 02/15/23 12:30

Received: 02/16/23 14:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:56	JMW	EPA 6020A
Lithium	< 20	ug/L		02/21/23 08:55	1	20	02/22/23 14:14	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03263-24
Name: G305
Matrix: Ground Water - Grab

Sampled: 02/15/23 14:52
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	22	mg/L		02/21/23 20:21	10	10	02/21/23 20:21	CRD	EPA 300.0 REV 2.1
Fluoride	0.302	mg/L		02/21/23 20:03	1	0.250	02/21/23 20:03	CRD	EPA 300.0 REV 2.1
Sulfate	980	mg/L		02/21/23 20:39	100	100	02/21/23 20:39	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.24	Feet		02/15/23 14:52	1		02/15/23 14:52	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		02/15/23 14:52	1		02/15/23 14:52	FIELD	Field*
Oxidation Reduction Potential	57.9	mV		02/15/23 14:52	1	-500	02/15/23 14:52	FIELD	Field*
pH, Field Measured	7.35	pH Units		02/15/23 14:52	1		02/15/23 14:52	FIELD	Field*
Specific Conductance, Field Measured	1661	umhos/cm		02/15/23 14:52	1		02/15/23 14:52	FIELD	Field*
Temperature, Field Measured	14.6	°C		02/15/23 14:52	1		02/15/23 14:52	FIELD	Field*
Turbidity, Field Measured	29.4	NTU		02/15/23 14:52	1	0.00	02/15/23 14:52	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	200	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1800	mg/L		02/17/23 10:45	1	26	02/17/23 16:40	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/21/23 08:55	5	3.0	02/22/23 16:58	JMW	EPA 6020A
Arsenic	6.1	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:09	JMW	EPA 6020A
Barium	69	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:58	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:58	JMW	EPA 6020A
Boron	2000	ug/L		02/21/23 08:55	5	10	02/22/23 16:58	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:09	JMW	EPA 6020A
Calcium	200	mg/L		02/21/23 08:55	5	0.20	02/22/23 11:09	JMW	EPA 6020A
Chromium	20	ug/L		02/21/23 08:55	5	4.0	02/22/23 11:09	JMW	EPA 6020A
Cobalt	6.8	ug/L		02/21/23 08:55	5	2.0	02/22/23 11:09	JMW	EPA 6020A
Lead	21	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:58	JMW	EPA 6020A
Magnesium	100	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:09	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/21/23 08:55	5	0.20	02/22/23 16:58	JMW	EPA 6020A
Molybdenum	1.4	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:09	JMW	EPA 6020A
Potassium	2.7	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:09	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:09	JMW	EPA 6020A
Sodium	120	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:09	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03263-24

Name: G305

Matrix: Ground Water - Grab

Sampled: 02/15/23 14:52

Received: 02/16/23 14:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:58	JMW	EPA 6020A
Lithium	< 20	ug/L		02/21/23 08:55	1	20	02/22/23 14:15	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03263-25
Name: G307
Matrix: Ground Water - Grab

Sampled: 02/15/23 15:24
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	12	mg/L		02/21/23 21:15	10	10	02/21/23 21:15	CRD	EPA 300.0 REV 2.1
Fluoride	0.299	mg/L		02/21/23 20:57	1	0.250	02/21/23 20:57	CRD	EPA 300.0 REV 2.1
Sulfate	600	mg/L		02/21/23 21:33	100	100	02/21/23 21:33	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	0	Feet		02/15/23 15:24	1		02/15/23 15:24	FIELD	Field*
Dissolved oxygen, Field	1.4	mg/L		02/15/23 15:24	1		02/15/23 15:24	FIELD	Field*
Oxidation Reduction Potential	350	mV		02/15/23 15:24	1	-500	02/15/23 15:24	FIELD	Field*
pH, Field Measured	7.15	pH Units		02/15/23 15:24	1		02/15/23 15:24	FIELD	Field*
Specific Conductance, Field Measured	1560	umhos/cm		02/15/23 15:24	1		02/15/23 15:24	FIELD	Field*
Temperature, Field Measured	14.0	°C		02/15/23 15:24	1		02/15/23 15:24	FIELD	Field*
Turbidity, Field Measured	418	NTU		02/15/23 15:24	1	0.00	02/15/23 15:24	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	160	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1200	mg/L		02/17/23 10:45	1	26	02/17/23 16:40	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/21/23 08:55	5	3.0	02/22/23 17:16	JMW	EPA 6020A
Arsenic	3.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:13	JMW	EPA 6020A
Barium	65	ug/L		02/21/23 08:55	5	1.0	02/22/23 17:16	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 17:16	JMW	EPA 6020A
Boron	2000	ug/L		02/21/23 08:55	5	10	02/22/23 17:16	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:13	JMW	EPA 6020A
Calcium	170	mg/L		02/21/23 08:55	5	0.20	02/22/23 11:13	JMW	EPA 6020A
Chromium	25	ug/L		02/21/23 08:55	5	4.0	02/22/23 11:13	JMW	EPA 6020A
Cobalt	4.7	ug/L		02/21/23 08:55	5	2.0	02/22/23 11:13	JMW	EPA 6020A
Lead	5.8	ug/L		02/21/23 08:55	5	1.0	02/22/23 17:16	JMW	EPA 6020A
Magnesium	54	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:13	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/21/23 08:55	5	0.20	02/22/23 17:16	JMW	EPA 6020A
Molybdenum	1.3	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:13	JMW	EPA 6020A
Potassium	5.3	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:13	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:13	JMW	EPA 6020A
Sodium	77	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:13	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03263-25

Name: G307

Matrix: Ground Water - Grab

Sampled: 02/15/23 15:24

Received: 02/16/23 14:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 17:16	JMW	EPA 6020A
Lithium	< 20	ug/L		02/21/23 08:55	1	20	02/22/23 14:16	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03263-26
Name: G307D
Matrix: Ground Water - Grab

Sampled: 02/15/23 16:25
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	17	mg/L		02/22/23 01:10	10	10	02/22/23 01:10	CRD	EPA 300.0 REV 2.1
Fluoride	0.570	mg/L		02/22/23 00:52	1	0.250	02/22/23 00:52	CRD	EPA 300.0 REV 2.1
Sulfate	660	mg/L		02/22/23 01:28	100	100	02/22/23 01:28	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	2.7	Feet		02/15/23 16:25	1		02/15/23 16:25	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		02/15/23 16:25	1		02/15/23 16:25	FIELD	Field*
Oxidation Reduction Potential	-43.0	mV		02/15/23 16:25	1	-500	02/15/23 16:25	FIELD	Field*
pH, Field Measured	7.21	pH Units		02/15/23 16:25	1		02/15/23 16:25	FIELD	Field*
Specific Conductance, Field Measured	1500	umhos/cm		02/15/23 16:25	1		02/15/23 16:25	FIELD	Field*
Temperature, Field Measured	14.4	°C		02/15/23 16:25	1		02/15/23 16:25	FIELD	Field*
Turbidity, Field Measured	43.3	NTU		02/15/23 16:25	1	0.00	02/15/23 16:25	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	220	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1200	mg/L		02/17/23 10:45	1	26	02/17/23 16:40	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/21/23 08:55	5	3.0	02/22/23 17:19	JMW	EPA 6020A
Arsenic	7.2	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:17	JMW	EPA 6020A
Barium	40	ug/L		02/21/23 08:55	5	1.0	02/22/23 17:19	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 17:19	JMW	EPA 6020A
Boron	1200	ug/L		02/21/23 08:55	5	10	02/22/23 17:19	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:17	JMW	EPA 6020A
Calcium	170	mg/L		02/21/23 08:55	5	0.20	02/22/23 11:17	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/21/23 08:55	5	4.0	02/22/23 11:17	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/21/23 08:55	5	2.0	02/22/23 11:17	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 17:19	JMW	EPA 6020A
Magnesium	59	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:17	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/21/23 08:55	5	0.20	02/22/23 17:19	JMW	EPA 6020A
Molybdenum	16	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:17	JMW	EPA 6020A
Potassium	1.0	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:17	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:17	JMW	EPA 6020A
Sodium	110	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:17	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03263-26

Name: G307D

Matrix: Ground Water - Grab

Sampled: 02/15/23 16:25

Received: 02/16/23 14:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 17:19	JMW	EPA 6020A
Lithium	< 20	ug/L		02/21/23 08:55	1	20	02/22/23 14:17	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03263-27
Name: G315
Matrix: Ground Water - Grab

Sampled: 02/15/23 11:19
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	12	mg/L		02/21/23 20:20	10	10	02/21/23 20:20	CRD	EPA 300.0 REV 2.1
Fluoride	0.268	mg/L		02/21/23 20:02	1	0.250	02/21/23 20:02	CRD	EPA 300.0 REV 2.1
Sulfate	670	mg/L		02/21/23 20:38	100	100	02/21/23 20:38	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	2.11	Feet		02/15/23 11:19	1		02/15/23 11:19	FIELD	Field*
Dissolved oxygen, Field	0.75	mg/L		02/15/23 11:19	1		02/15/23 11:19	FIELD	Field*
Oxidation Reduction Potential	182	mV		02/15/23 11:19	1	-500	02/15/23 11:19	FIELD	Field*
pH, Field Measured	7.00	pH Units		02/15/23 11:19	1		02/15/23 11:19	FIELD	Field*
Specific Conductance, Field Measured	1580	umhos/cm		02/15/23 11:19	1		02/15/23 11:19	FIELD	Field*
Temperature, Field Measured	11.4	°C		02/15/23 11:19	1		02/15/23 11:19	FIELD	Field*
Turbidity, Field Measured	2.36	NTU		02/15/23 11:19	1	0.00	02/15/23 11:19	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	210	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1300	mg/L		02/20/23 10:57	1	26	02/20/23 11:57	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/21/23 08:55	5	3.0	02/22/23 17:22	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:38	JMW	EPA 6020A
Barium	17	ug/L		02/21/23 08:55	5	1.0	02/22/23 17:22	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 17:22	JMW	EPA 6020A
Boron	1200	ug/L		02/21/23 08:55	5	10	02/22/23 17:22	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:38	JMW	EPA 6020A
Calcium	150	mg/L		02/21/23 08:55	5	0.20	02/22/23 11:38	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/21/23 08:55	5	4.0	02/22/23 11:38	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/21/23 08:55	5	2.0	02/22/23 11:38	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 17:22	JMW	EPA 6020A
Magnesium	64	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:38	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/21/23 08:55	5	0.20	02/22/23 17:22	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:38	JMW	EPA 6020A
Potassium	0.16	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:38	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 11:38	JMW	EPA 6020A
Sodium	110	mg/L		02/21/23 08:55	5	0.10	02/22/23 11:38	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03263-27
Name: G315
Matrix: Ground Water - Grab

Sampled: 02/15/23 11:19
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 17:22	JMW	EPA 6020A
Lithium	< 20	ug/L		02/21/23 08:55	1	20	02/22/23 14:19	TJJ	EPA 6010B

Sample: GB03263-39
Name: XPW01
Matrix: Ground Water - Grab

Sampled: 02/15/23 16:50
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Anions - PIA

Chloride	8.9	mg/L		02/22/23 19:21	5	5.0	02/22/23 19:21	CRD	EPA 300.0 REV 2.1
Sulfate	700	mg/L		02/22/23 04:57	100	100	02/22/23 04:57	CRD	EPA 300.0 REV 2.1

Field - PIA

Depth, From Measuring Point	4.52	Feet		02/15/23 16:50	1		02/15/23 16:50	FIELD	Field*
Dissolved oxygen, Field	1.5	mg/L		02/15/23 16:50	1		02/15/23 16:50	FIELD	Field*
Oxidation Reduction Potential	-35.0	mV		02/15/23 16:50	1	-500	02/15/23 16:50	FIELD	Field*
pH, Field Measured	7.81	pH Units		02/15/23 16:50	1		02/15/23 16:50	FIELD	Field*
Specific Conductance, Field Measured	1415	umhos/cm		02/15/23 16:50	1		02/15/23 16:50	FIELD	Field*
Temperature, Field Measured	13.6	°C		02/15/23 16:50	1		02/15/23 16:50	FIELD	Field*
Turbidity, Field Measured	0.850	NTU		02/15/23 16:50	1	0.00	02/15/23 16:50	FIELD	Field*

General Chemistry - PIA

Alkalinity - bicarbonate as CaCO ₃	100	mg/L		02/24/23 16:27	1	10	02/24/23 16:32	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/24/23 16:27	1	10	02/24/23 16:32	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		02/22/23 16:13	1	26	02/22/23 16:56	HRF	SM 2540C

Total Metals - PIA

Calcium	240	mg/L		02/22/23 14:11	5	0.20	02/23/23 13:30	JMW	EPA 6020A
Magnesium	20	mg/L		02/22/23 14:11	5	0.10	02/23/23 18:46	JMW	EPA 6020A
Potassium	21	mg/L		02/22/23 14:11	5	0.10	02/23/23 13:30	JMW	EPA 6020A
Sodium	67	mg/L		02/22/23 14:11	5	0.10	02/23/23 13:30	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03263-40
Name: XPW02
Matrix: Ground Water - Grab

Sampled: 02/15/23 16:21
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	11	mg/L		02/22/23 15:35	10	10	02/22/23 15:35	CRD	EPA 300.0 REV 2.1
Sulfate	530	mg/L		02/22/23 15:53	100	100	02/22/23 15:53	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	9.38	Feet		02/15/23 16:21	1		02/15/23 16:21	FIELD	Field*
Dissolved oxygen, Field	2.9	mg/L		02/15/23 16:21	1		02/15/23 16:21	FIELD	Field*
Oxidation Reduction Potential	-108	mV		02/15/23 16:21	1	-500	02/15/23 16:21	FIELD	Field*
pH, Field Measured	7.85	pH Units		02/15/23 16:21	1		02/15/23 16:21	FIELD	Field*
Specific Conductance, Field Measured	1184	umhos/cm		02/15/23 16:21	1		02/15/23 16:21	FIELD	Field*
Temperature, Field Measured	15.3	°C		02/15/23 16:21	1		02/15/23 16:21	FIELD	Field*
Turbidity, Field Measured	0.760	NTU		02/15/23 16:21	1	0.00	02/15/23 16:21	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO3	160	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	930	mg/L		02/22/23 16:13	1	26	02/22/23 16:56	HRF	SM 2540C
<u>Total Metals - PIA</u>									
Calcium	210	mg/L		02/22/23 14:11	5	0.20	02/23/23 13:34	JMW	EPA 6020A
Magnesium	20	mg/L		02/22/23 14:11	5	0.10	02/23/23 18:50	JMW	EPA 6020A
Potassium	21	mg/L		02/22/23 14:11	5	0.10	02/23/23 13:34	JMW	EPA 6020A
Sodium	68	mg/L		02/22/23 14:11	5	0.10	02/23/23 13:34	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03263-41
Name: G303
Matrix: Ground Water - Grab

Sampled: 02/15/23 15:52
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	28	mg/L		02/22/23 16:30	10	10	02/22/23 16:30	CRD	EPA 300.0 REV 2.1
Fluoride	0.269	mg/L		02/22/23 16:12	1	0.250	02/22/23 16:12	CRD	EPA 300.0 REV 2.1
Sulfate	590	mg/L		02/22/23 16:48	100	100	02/22/23 16:48	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	4.42	Feet		02/15/23 15:52	1		02/15/23 15:52	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		02/15/23 15:52	1		02/15/23 15:52	FIELD	Field*
Oxidation Reduction Potential	89.7	mV		02/15/23 15:52	1	-500	02/15/23 15:52	FIELD	Field*
pH, Field Measured	6.54	pH Units		02/15/23 15:52	1		02/15/23 15:52	FIELD	Field*
Specific Conductance, Field Measured	1827	umhos/cm		02/15/23 15:52	1		02/15/23 15:52	FIELD	Field*
Temperature, Field Measured	13.0	°C		02/15/23 15:52	1		02/15/23 15:52	FIELD	Field*
Turbidity, Field Measured	1.48	NTU		02/15/23 15:52	1	0.00	02/15/23 15:52	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	620	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/24/23 10:13	1	10	02/24/23 10:13	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1500	mg/L		02/22/23 16:13	1	26	02/22/23 16:56	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/22/23 14:11	5	3.0	02/23/23 13:38	JMW	EPA 6020A
Arsenic	3.2	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:38	JMW	EPA 6020A
Barium	21	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:38	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 18:53	wjm	EPA 6020A
Boron	2100	ug/L		02/22/23 14:11	5	10	02/27/23 07:48	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:38	JMW	EPA 6020A
Calcium	170	mg/L		02/22/23 14:11	5	0.20	02/23/23 13:38	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/22/23 14:11	5	4.0	02/23/23 13:38	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/22/23 14:11	5	2.0	02/23/23 13:38	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:38	JMW	EPA 6020A
Magnesium	120	mg/L		02/22/23 14:11	5	0.10	02/23/23 18:53	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/22/23 14:11	5	0.20	02/23/23 13:38	JMW	EPA 6020A
Molybdenum	1.5	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:38	JMW	EPA 6020A
Potassium	1.7	mg/L		02/22/23 14:11	5	0.10	02/23/23 13:38	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:38	JMW	EPA 6020A
Sodium	160	mg/L		02/22/23 14:11	5	0.10	02/23/23 13:38	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03263-41

Name: G303

Matrix: Ground Water - Grab

Sampled: 02/15/23 15:52

Received: 02/16/23 14:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:38	JMW	EPA 6020A
Lithium	23	ug/L		02/22/23 14:11	1	20	02/25/23 10:39	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03332-14
Name: G281
Matrix: Ground Water - Grab

Sampled: 02/16/23 14:19
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	76	mg/L		02/17/23 17:11	10	10	02/17/23 17:11	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/17/23 16:16	1	0.250	02/17/23 16:16	CRD	EPA 300.0 REV 2.1
Sulfate	270	mg/L		02/17/23 17:29	100	100	02/17/23 17:29	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	4.64	Feet		02/16/23 14:19	1		02/16/23 14:19	FIELD	Field*
Dissolved oxygen, Field	2.3	mg/L		02/16/23 14:19	1		02/16/23 14:19	FIELD	Field*
Oxidation Reduction Potential	64.4	mV		02/16/23 14:19	1	-500	02/16/23 14:19	FIELD	Field*
pH, Field Measured	7.17	pH Units		02/16/23 14:19	1		02/16/23 14:19	FIELD	Field*
Specific Conductance, Field Measured	1425	umhos/cm		02/16/23 14:19	1		02/16/23 14:19	FIELD	Field*
Temperature, Field Measured	9.2	°C		02/16/23 14:19	1		02/16/23 14:19	FIELD	Field*
Turbidity, Field Measured	20.7	NTU		02/16/23 14:19	1	0.00	02/16/23 14:19	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	380	mg/L	H	03/17/23 17:03	1	10	03/17/23 14:14	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L	H	03/17/23 17:03	1	10	03/17/23 14:14	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	980	mg/L		02/21/23 15:28	1	26	02/21/23 16:28	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/23/23 09:11	5	3.0	03/02/23 10:15	JMW	EPA 6020A
Arsenic	1.4	ug/L		02/23/23 09:11	5	1.0	03/03/23 12:51	JMW	EPA 6020A
Barium	65	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:15	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 18:35	JMW	EPA 6020A
Boron	21	ug/L		02/23/23 09:11	5	10	03/02/23 10:15	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:15	JMW	EPA 6020A
Calcium	130	mg/L		02/23/23 09:11	5	0.20	03/02/23 10:15	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/23/23 09:11	5	4.0	03/02/23 10:15	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/23/23 09:11	5	2.0	03/02/23 10:15	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:15	JMW	EPA 6020A
Magnesium	62	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:15	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/23/23 09:11	5	0.20	03/02/23 10:15	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:15	JMW	EPA 6020A
Potassium	0.55	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:15	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:15	JMW	EPA 6020A
Sodium	100	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:15	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03332-14

Name: G281

Matrix: Ground Water - Grab

Sampled: 02/16/23 14:19

Received: 02/17/23 08:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:15	JMW	EPA 6020A
Lithium	< 20	ug/L		02/23/23 09:11	1	20	02/25/23 10:58	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03332-15
Name: G306
Matrix: Ground Water - Grab

Sampled: 02/16/23 11:26
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	1.6	mg/L		02/23/23 14:04	1	1.0	02/23/23 14:04	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/23/23 14:04	1	0.250	02/23/23 14:04	CRD	EPA 300.0 REV 2.1
Sulfate	140	mg/L		02/23/23 14:22	100	100	02/23/23 14:22	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	5.71	Feet		02/16/23 11:26	1		02/16/23 11:26	FIELD	Field*
Dissolved oxygen, Field	6.2	mg/L		02/16/23 11:26	1		02/16/23 11:26	FIELD	Field*
Oxidation Reduction Potential	69.6	mV		02/16/23 11:26	1	-500	02/16/23 11:26	FIELD	Field*
pH, Field Measured	6.98	pH Units		02/16/23 11:26	1		02/16/23 11:26	FIELD	Field*
Specific Conductance, Field Measured	937.3	umhos/cm		02/16/23 11:26	1		02/16/23 11:26	FIELD	Field*
Temperature, Field Measured	10.8	°C		02/16/23 11:26	1		02/16/23 11:26	FIELD	Field*
Turbidity, Field Measured	316	NTU		02/16/23 11:26	1	0.00	02/16/23 11:26	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	380	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	560	mg/L		02/20/23 15:17	1	26	02/20/23 16:57	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/23/23 09:11	5	3.0	03/02/23 10:19	JMW	EPA 6020A
Arsenic	4.9	ug/L		02/23/23 09:11	5	1.0	03/03/23 12:55	JMW	EPA 6020A
Barium	77	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:19	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 18:39	JMW	EPA 6020A
Boron	2400	ug/L		02/23/23 09:11	5	10	03/02/23 10:19	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:19	JMW	EPA 6020A
Calcium	110	mg/L		02/23/23 09:11	5	0.20	03/02/23 10:19	JMW	EPA 6020A
Chromium	12	ug/L		02/23/23 09:11	5	4.0	03/02/23 10:19	JMW	EPA 6020A
Cobalt	4.4	ug/L		02/23/23 09:11	5	2.0	03/02/23 10:19	JMW	EPA 6020A
Lead	5.4	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:19	JMW	EPA 6020A
Magnesium	43	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:19	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/23/23 09:11	5	0.20	03/02/23 10:19	JMW	EPA 6020A
Molybdenum	1.1	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:19	JMW	EPA 6020A
Potassium	1.3	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:19	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:19	JMW	EPA 6020A
Sodium	47	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:19	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03332-15

Name: G306

Matrix: Ground Water - Grab

Sampled: 02/16/23 11:26

Received: 02/17/23 08:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:19	JMW	EPA 6020A
Lithium	< 20	ug/L		02/23/23 09:11	1	20	02/25/23 10:59	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03332-16
Name: G308
Matrix: Ground Water - Grab

Sampled: 02/16/23 12:49
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	< 250	mg/L		02/23/23 14:58	250	250	02/23/23 14:58	CRD	EPA 300.0 REV 2.1
Fluoride	0.503	mg/L		02/23/23 14:40	1	0.250	02/23/23 14:40	CRD	EPA 300.0 REV 2.1
Sulfate	960	mg/L		02/23/23 14:58	250	250	02/23/23 14:58	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	3.45	Feet		02/16/23 12:49	1		02/16/23 12:49	FIELD	Field*
Dissolved oxygen, Field	2.1	mg/L		02/16/23 12:49	1		02/16/23 12:49	FIELD	Field*
Oxidation Reduction Potential	278	mV		02/16/23 12:49	1	-500	02/16/23 12:49	FIELD	Field*
pH, Field Measured	7.21	pH Units		02/16/23 12:49	1		02/16/23 12:49	FIELD	Field*
Specific Conductance, Field Measured	2000	umhos/cm		02/16/23 12:49	1		02/16/23 12:49	FIELD	Field*
Temperature, Field Measured	9.5	°C		02/16/23 12:49	1		02/16/23 12:49	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/16/23 12:49	1	0.00	02/16/23 12:49	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	210	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1800	mg/L		02/20/23 15:17	1	26	02/20/23 16:57	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/23/23 09:11	5	3.0	03/02/23 10:23	JMW	EPA 6020A
Arsenic	1.5	ug/L		02/23/23 09:11	5	1.0	03/03/23 12:59	JMW	EPA 6020A
Barium	18	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:23	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 18:43	JMW	EPA 6020A
Boron	2400	ug/L		02/23/23 09:11	5	10	03/02/23 10:23	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:23	JMW	EPA 6020A
Calcium	190	mg/L		02/23/23 09:11	5	0.20	03/02/23 10:23	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/23/23 09:11	5	4.0	03/02/23 10:23	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/23/23 09:11	5	2.0	03/02/23 10:23	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:23	JMW	EPA 6020A
Magnesium	120	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:23	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/23/23 09:11	5	0.20	03/02/23 10:23	JMW	EPA 6020A
Molybdenum	1.2	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:23	JMW	EPA 6020A
Potassium	0.35	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:23	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:23	JMW	EPA 6020A
Sodium	150	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:23	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03332-16

Name: G308

Matrix: Ground Water - Grab

Sampled: 02/16/23 12:49

Received: 02/17/23 08:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:23	JMW	EPA 6020A
Lithium	< 20	ug/L		02/23/23 09:11	1	20	02/25/23 11:00	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03332-17
Name: G310
Matrix: Ground Water - Grab

Sampled: 02/16/23 13:48
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	13	mg/L		02/23/23 16:46	10	10	02/23/23 16:46	CRD	EPA 300.0 REV 2.1
Fluoride	0.280	mg/L		02/23/23 15:52	1	0.250	02/23/23 15:52	CRD	EPA 300.0 REV 2.1
Sulfate	550	mg/L		02/23/23 17:04	100	100	02/23/23 17:04	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.95	Feet		02/16/23 13:48	1		02/16/23 13:48	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		02/16/23 13:48	1		02/16/23 13:48	FIELD	Field*
Oxidation Reduction Potential	305	mV		02/16/23 13:48	1	-500	02/16/23 13:48	FIELD	Field*
pH, Field Measured	7.16	pH Units		02/16/23 13:48	1		02/16/23 13:48	FIELD	Field*
Specific Conductance, Field Measured	1460	umhos/cm		02/16/23 13:48	1		02/16/23 13:48	FIELD	Field*
Temperature, Field Measured	9.9	°C		02/16/23 13:48	1		02/16/23 13:48	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/16/23 13:48	1	0.00	02/16/23 13:48	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	250	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		02/20/23 15:17	1	26	02/20/23 16:57	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/23/23 09:11	5	3.0	03/02/23 10:26	JMW	EPA 6020A
Arsenic	1.2	ug/L		02/23/23 09:11	5	1.0	03/03/23 13:03	JMW	EPA 6020A
Barium	13	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:26	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 18:47	JMW	EPA 6020A
Boron	1700	ug/L		02/23/23 09:11	5	10	03/02/23 10:26	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:26	JMW	EPA 6020A
Calcium	130	mg/L		02/23/23 09:11	5	0.20	03/02/23 10:26	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/23/23 09:11	5	4.0	03/02/23 10:26	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/23/23 09:11	5	2.0	03/02/23 10:26	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:26	JMW	EPA 6020A
Magnesium	47	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:26	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/23/23 09:11	5	0.20	03/02/23 10:26	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:26	JMW	EPA 6020A
Potassium	0.28	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:26	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:26	JMW	EPA 6020A
Sodium	150	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:26	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03332-17

Name: G310

Matrix: Ground Water - Grab

Sampled: 02/16/23 13:48

Received: 02/17/23 08:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:26	JMW	EPA 6020A
Lithium	< 20	ug/L		02/23/23 09:11	1	20	02/25/23 11:01	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03332-18
Name: G313
Matrix: Ground Water - Grab

Sampled: 02/16/23 11:53
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	20	mg/L		02/24/23 00:54	10	10	02/24/23 00:54	CRD	EPA 300.0 REV 2.1
Fluoride	0.254	mg/L		02/24/23 00:36	1	0.250	02/24/23 00:36	CRD	EPA 300.0 REV 2.1
Sulfate	690	mg/L		02/24/23 01:12	100	100	02/24/23 01:12	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	3.12	Feet		02/16/23 11:53	1		02/16/23 11:53	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		02/16/23 11:53	1		02/16/23 11:53	FIELD	Field*
Oxidation Reduction Potential	236	mV		02/16/23 11:53	1	-500	02/16/23 11:53	FIELD	Field*
pH, Field Measured	6.88	pH Units		02/16/23 11:53	1		02/16/23 11:53	FIELD	Field*
Specific Conductance, Field Measured	1890	umhos/cm		02/16/23 11:53	1		02/16/23 11:53	FIELD	Field*
Temperature, Field Measured	9.8	°C		02/16/23 11:53	1		02/16/23 11:53	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/16/23 11:53	1	0.00	02/16/23 11:53	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1600	mg/L		02/21/23 15:28	1	26	02/21/23 16:28	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/23/23 09:11	5	3.0	03/02/23 10:56	JMW	EPA 6020A
Arsenic	1.7	ug/L		02/23/23 09:11	5	1.0	03/03/23 13:06	JMW	EPA 6020A
Barium	17	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:56	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 18:51	JMW	EPA 6020A
Boron	3200	ug/L		02/23/23 09:11	5	10	03/02/23 10:56	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:56	JMW	EPA 6020A
Calcium	190	mg/L		02/23/23 09:11	5	0.20	03/02/23 10:56	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/23/23 09:11	5	4.0	03/02/23 10:56	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/23/23 09:11	5	2.0	03/02/23 10:56	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:56	JMW	EPA 6020A
Magnesium	100	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:56	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/23/23 09:11	5	0.20	03/02/23 10:56	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:56	JMW	EPA 6020A
Potassium	0.95	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:56	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:56	JMW	EPA 6020A
Sodium	150	mg/L		02/23/23 09:11	5	0.10	03/02/23 10:56	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03332-18

Name: G313

Matrix: Ground Water - Grab

Sampled: 02/16/23 11:53

Received: 02/17/23 08:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 10:56	JMW	EPA 6020A
Lithium	< 20	ug/L		02/23/23 09:11	1	20	02/25/23 11:03	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03332-19
Name: G314D
Matrix: Ground Water - Grab

Sampled: 02/16/23 10:57
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	60	mg/L		02/24/23 01:48	25	25	02/24/23 01:48	CRD	EPA 300.0 REV 2.1
Fluoride	0.546	mg/L		02/24/23 01:30	1	0.250	02/24/23 01:30	CRD	EPA 300.0 REV 2.1
Sulfate	810	mg/L		02/24/23 02:43	250	250	02/24/23 02:43	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	16.36	Feet		02/16/23 10:57	1		02/16/23 10:57	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		02/16/23 10:57	1		02/16/23 10:57	FIELD	Field*
Oxidation Reduction Potential	175	mV		02/16/23 10:57	1	-500	02/16/23 10:57	FIELD	Field*
pH, Field Measured	6.92	pH Units		02/16/23 10:57	1		02/16/23 10:57	FIELD	Field*
Specific Conductance, Field Measured	2530	umhos/cm		02/16/23 10:57	1		02/16/23 10:57	FIELD	Field*
Temperature, Field Measured	10.6	°C		02/16/23 10:57	1		02/16/23 10:57	FIELD	Field*
Turbidity, Field Measured	35.5	NTU		02/16/23 10:57	1	0.00	02/16/23 10:57	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	620	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	2100	mg/L		02/21/23 15:28	1	26	02/21/23 16:28	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/23/23 09:11	5	3.0	03/02/23 11:00	JMW	EPA 6020A
Arsenic	2.5	ug/L		02/23/23 09:11	5	1.0	03/03/23 13:10	JMW	EPA 6020A
Barium	37	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:00	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 18:54	JMW	EPA 6020A
Boron	190	ug/L		02/23/23 09:11	5	10	03/02/23 11:00	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:00	JMW	EPA 6020A
Calcium	230	mg/L		02/23/23 09:11	5	0.20	03/02/23 11:00	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/23/23 09:11	5	4.0	03/02/23 11:00	JMW	EPA 6020A
Cobalt	2.7	ug/L		02/23/23 09:11	5	2.0	03/02/23 11:00	JMW	EPA 6020A
Lead	1.1	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:00	JMW	EPA 6020A
Magnesium	79	mg/L		02/23/23 09:11	5	0.10	03/02/23 11:00	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/23/23 09:11	5	0.20	03/02/23 11:00	JMW	EPA 6020A
Molybdenum	4.5	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:00	JMW	EPA 6020A
Potassium	3.1	mg/L		02/23/23 09:11	5	0.10	03/02/23 11:00	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:00	JMW	EPA 6020A
Sodium	350	mg/L		02/23/23 09:11	5	0.10	03/02/23 11:00	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03332-19
Name: G314D
Matrix: Ground Water - Grab

Sampled: 02/16/23 10:57
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:00	JMW	EPA 6020A
Lithium	< 20	ug/L		02/23/23 09:11	1	20	02/25/23 11:04	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03332-20
Name: G314
Matrix: Ground Water - Grab

Sampled: 02/16/23 10:03
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	32	mg/L		02/24/23 03:01	10	10	02/24/23 03:01	CRD	EPA 300.0 REV 2.1
Sulfate	2000	mg/L		02/24/23 03:19	250	250	02/24/23 03:19	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.09	Feet		02/16/23 10:03	1		02/16/23 10:03	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		02/16/23 10:03	1		02/16/23 10:03	FIELD	Field*
Oxidation Reduction Potential	138	mV		02/16/23 10:03	1	-500	02/16/23 10:03	FIELD	Field*
pH, Field Measured	6.51	pH Units		02/16/23 10:03	1		02/16/23 10:03	FIELD	Field*
Specific Conductance, Field Measured	3710	umhos/cm		02/16/23 10:03	1		02/16/23 10:03	FIELD	Field*
Temperature, Field Measured	9.6	°C		02/16/23 10:03	1		02/16/23 10:03	FIELD	Field*
Turbidity, Field Measured	173	NTU		02/16/23 10:03	1	0.00	02/16/23 10:03	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	660	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/28/23 14:34	1	0.250	02/28/23 14:34	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	3800	mg/L		02/21/23 15:28	1	26	02/21/23 16:28	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/23/23 09:11	5	3.0	03/02/23 11:03	JMW	EPA 6020A
Arsenic	2.7	ug/L		02/23/23 09:11	5	1.0	03/03/23 13:14	JMW	EPA 6020A
Barium	16	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:03	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 18:58	JMW	EPA 6020A
Boron	140	ug/L		02/23/23 09:11	5	10	03/02/23 11:03	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:03	JMW	EPA 6020A
Calcium	690	mg/L		02/23/23 09:11	100	4.0	03/02/23 15:04	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/23/23 09:11	5	4.0	03/02/23 11:03	JMW	EPA 6020A
Cobalt	2.1	ug/L		02/23/23 09:11	5	2.0	03/02/23 11:03	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:03	JMW	EPA 6020A
Magnesium	260	mg/L		02/23/23 09:11	5	0.10	03/02/23 11:03	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/23/23 09:11	5	0.20	03/02/23 11:03	JMW	EPA 6020A
Molybdenum	2.7	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:03	JMW	EPA 6020A
Potassium	3.3	mg/L		02/23/23 09:11	5	0.10	03/02/23 11:03	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:03	JMW	EPA 6020A
Sodium	120	mg/L		02/23/23 09:11	5	0.10	03/02/23 11:03	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03332-20

Name: G314

Matrix: Ground Water - Grab

Sampled: 02/16/23 10:03

Received: 02/17/23 08:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:03	JMW	EPA 6020A
Lithium	< 20	ug/L		02/23/23 09:11	1	20	02/25/23 11:05	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GB03332-21
Name: G316
Matrix: Ground Water - Grab

Sampled: 02/16/23 10:25
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	25	mg/L		02/24/23 03:37	10	10	02/24/23 03:37	CRD	EPA 300.0 REV 2.1
Sulfate	740	mg/L		02/24/23 03:55	100	100	02/24/23 03:55	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	11.1	Feet		02/16/23 10:25	1		02/16/23 10:25	FIELD	Field*
Dissolved oxygen, Field	0.60	mg/L		02/16/23 10:25	1		02/16/23 10:25	FIELD	Field*
Oxidation Reduction Potential	-78.2	mV		02/16/23 10:25	1	-500	02/16/23 10:25	FIELD	Field*
pH, Field Measured	7.04	pH Units		02/16/23 10:25	1		02/16/23 10:25	FIELD	Field*
Specific Conductance, Field Measured	2354	umhos/cm		02/16/23 10:25	1		02/16/23 10:25	FIELD	Field*
Temperature, Field Measured	9.6	°C		02/16/23 10:25	1		02/16/23 10:25	FIELD	Field*
Turbidity, Field Measured	49.6	NTU		02/16/23 10:25	1	0.00	02/16/23 10:25	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	610	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/28/23 14:36	1	0.250	02/28/23 14:36	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1800	mg/L		02/21/23 15:28	1	26	02/21/23 16:28	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/23/23 09:11	5	3.0	03/02/23 11:07	JMW	EPA 6020A
Arsenic	9.4	ug/L		02/23/23 09:11	5	1.0	03/03/23 13:18	JMW	EPA 6020A
Barium	69	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:07	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 19:02	JMW	EPA 6020A
Boron	330	ug/L		02/23/23 09:11	5	10	03/02/23 11:07	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:07	JMW	EPA 6020A
Calcium	200	mg/L		02/23/23 09:11	5	0.20	03/02/23 11:07	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/23/23 09:11	5	4.0	03/02/23 11:07	JMW	EPA 6020A
Cobalt	2.8	ug/L		02/23/23 09:11	5	2.0	03/02/23 11:07	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:07	JMW	EPA 6020A
Magnesium	170	mg/L		02/23/23 09:11	5	0.10	03/02/23 11:07	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/23/23 09:11	5	0.20	03/02/23 11:07	JMW	EPA 6020A
Molybdenum	3.6	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:07	JMW	EPA 6020A
Potassium	1.8	mg/L		02/23/23 09:11	5	0.10	03/02/23 11:07	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:07	JMW	EPA 6020A
Sodium	110	mg/L		02/23/23 09:11	5	0.10	03/02/23 11:07	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GB03332-21

Name: G316

Matrix: Ground Water - Grab

Sampled: 02/16/23 10:25

Received: 02/17/23 08:30

PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:07	JMW	EPA 6020A
Lithium	< 20	ug/L		02/23/23 09:11	1	20	02/25/23 11:06	TJJ	EPA 6010B



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B326085 - No Prep - SM 2540C</u>									
Blank (B326085-BLK1)				Prepared & Analyzed: 02/17/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B326085-BS1)				Prepared & Analyzed: 02/17/23					
Solids - total dissolved solids (TDS)	1010	mg/L		1000		101	84.9-109		
Duplicate (B326085-DUP1)				Prepared & Analyzed: 02/17/23					
Solids - total dissolved solids (TDS)	1200	mg/L			1160			3	5
Duplicate (B326085-DUP2)				Prepared & Analyzed: 02/17/23					
Solids - total dissolved solids (TDS)	1240	mg/L			1210			2	5
<u>Batch B326222 - No Prep - SM 2540C</u>									
Blank (B326222-BLK1)				Prepared & Analyzed: 02/20/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B326222-BS1)				Prepared & Analyzed: 02/20/23					
Solids - total dissolved solids (TDS)	1010	mg/L		1000		101	84.9-109		
<u>Batch B326245 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B326245-CCB1)				Prepared & Analyzed: 02/17/23					
Sulfate	0.00	mg/L							
Chloride	0.0831	mg/L							
Fluoride	0.00	mg/L							
Calibration Check (B326245-CCV1)				Prepared & Analyzed: 02/17/23					
Fluoride	5.04	mg/L		5.000		101	90-110		
Chloride	4.76	mg/L		5.000		95	90-110		
Sulfate	4.96	mg/L		5.000		99	90-110		
<u>Batch B326266 - No Prep - SM 2540C</u>									
Blank (B326266-BLK1)				Prepared & Analyzed: 02/20/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B326266-BS1)				Prepared & Analyzed: 02/20/23					
Solids - total dissolved solids (TDS)	923	mg/L		1000		92	84.9-109		
<u>Batch B326312 - SW 3015 - EPA 6010B</u>									
Blank (B326312-BLK1)				Prepared: 02/21/23 Analyzed: 02/22/23					
Lithium	< 20	ug/L							
LCS (B326312-BS1)				Prepared: 02/21/23 Analyzed: 02/22/23					
Lithium	504	ug/L		555.6		91	80-120		
<u>Batch B326312 - SW 3015 - EPA 6020A</u>									
Blank (B326312-BLK1)				Prepared: 02/21/23 Analyzed: 02/22/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B326312-BLK1)				Prepared: 02/21/23 Analyzed: 02/22/23					
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B326312-BS1)				Prepared: 02/21/23 Analyzed: 02/22/23					
Antimony	551	ug/L		555.6		99	80-120		
Arsenic	522	ug/L		555.6		94	80-120		
Barium	524	ug/L		555.6		94	80-120		
Beryllium	524	ug/L		555.6		94	80-120		
Boron	540	ug/L		555.6		97	80-120		
Cadmium	512	ug/L		555.6		92	80-120		
Calcium	5.65	mg/L		5.556		102	80-120		
Chromium	547	ug/L		555.6		98	80-120		
Cobalt	537	ug/L		555.6		97	80-120		
Lead	541	ug/L		555.6		97	80-120		
Magnesium	5.33	mg/L		5.556		96	80-120		
Mercury	50.9	ug/L		55.56		92	80-120		
Molybdenum	514	ug/L		555.6		93	80-120		
Potassium	5.75	mg/L		5.556		104	80-120		
Selenium	531	ug/L		555.6		96	80-120		
Sodium	5.10	mg/L		5.556		92	80-120		
Thallium	541	ug/L		555.6		97	80-120		
<u>Batch B326412 - No Prep - SM 2540C</u>									
Blank (B326412-BLK1)				Prepared & Analyzed: 02/21/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B326412-BS1)				Prepared & Analyzed: 02/21/23					
Solids - total dissolved solids (TDS)	1000	mg/L		1000		100	84.9-109		
Duplicate (B326412-DUP1)				Prepared & Analyzed: 02/21/23					
Solids - total dissolved solids (TDS)	1880	mg/L			1840			2	5
<u>Batch B326498 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B326498-CCB1)				Prepared & Analyzed: 02/21/23					
Fluoride	0.00	mg/L							
Sulfate	0.00	mg/L							
Chloride	0.0695	mg/L							
Calibration Blank (B326498-CCB2)				Prepared & Analyzed: 02/21/23					
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.00	mg/L							
Calibration Check (B326498-CCV1)				Prepared & Analyzed: 02/21/23					



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Calibration Check (B326498-CCV1)				Prepared & Analyzed: 02/21/23					
Fluoride	5.24	mg/L		5.000		105	90-110		
Sulfate	4.91	mg/L		5.000		98	90-110		
Chloride	4.88	mg/L		5.000		98	90-110		
Calibration Check (B326498-CCV2)				Prepared & Analyzed: 02/21/23					
Fluoride	5.19	mg/L		5.000		104	90-110		
Sulfate	4.87	mg/L		5.000		97	90-110		
Chloride	4.90	mg/L		5.000		98	90-110		
<u>Batch B326500 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B326500-CCB1)				Prepared & Analyzed: 02/21/23					
Fluoride	0.00	mg/L							
Chloride	0.00	mg/L							
Sulfate	0.00	mg/L							
Calibration Check (B326500-CCV1)				Prepared & Analyzed: 02/21/23					
Fluoride	5.07	mg/L		5.000		101	90-110		
Sulfate	4.91	mg/L		5.000		98	90-110		
Chloride	4.86	mg/L		5.000		97	90-110		
<u>Batch B326510 - SW 3015 - EPA 6010B</u>									
Blank (B326510-BLK1)				Prepared: 02/22/23 Analyzed: 02/25/23					
Lithium	< 20	ug/L							
LCS (B326510-BS1)				Prepared: 02/22/23 Analyzed: 02/25/23					
Lithium	523	ug/L		555.6		94	80-120		
<u>Batch B326510 - SW 3015 - EPA 6020A</u>									
Blank (B326510-BLK1)				Prepared: 02/22/23 Analyzed: 02/23/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B326510-BS1)				Prepared: 02/22/23 Analyzed: 02/23/23					
Antimony	557	ug/L		555.6		100	80-120		
Arsenic	562	ug/L		555.6		101	80-120		
Barium	566	ug/L		555.6		102	80-120		



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B326510-BS1)				Prepared: 02/22/23 Analyzed: 02/23/23					
Beryllium	556	ug/L		555.6		100	80-120		
Boron	583	ug/L		555.6		105	80-120		
Cadmium	536	ug/L		555.6		97	80-120		
Calcium	5.80	mg/L		5.556		104	80-120		
Chromium	533	ug/L		555.6		96	80-120		
Cobalt	531	ug/L		555.6		96	80-120		
Lead	539	ug/L		555.6		97	80-120		
Magnesium	5.49	mg/L		5.556		99	80-120		
Mercury	52.8	ug/L		55.56		95	80-120		
Molybdenum	535	ug/L		555.6		96	80-120		
Potassium	5.69	mg/L		5.556		102	80-120		
Selenium	560	ug/L		555.6		101	80-120		
Sodium	5.53	mg/L		5.556		100	80-120		
Thallium	554	ug/L		555.6		100	80-120		
<u>Batch B326524 - No Prep - SM 2540C</u>									
Blank (B326524-BLK1)				Prepared & Analyzed: 02/22/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B326524-BS1)				Prepared & Analyzed: 02/22/23					
Solids - total dissolved solids (TDS)	950	mg/L		1000		95	84.9-109		
<u>Batch B326575 - SW 3015 - EPA 6010B</u>									
Blank (B326575-BLK1)				Prepared: 02/23/23 Analyzed: 02/25/23					
Lithium	< 20	ug/L							
LCS (B326575-BS1)				Prepared: 02/23/23 Analyzed: 02/25/23					
Lithium	534	ug/L		555.6		96	80-120		
<u>Batch B326575 - SW 3015 - EPA 6020A</u>									
Blank (B326575-BLK1)				Prepared: 02/23/23 Analyzed: 03/02/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B326575-BS1)				Prepared: 02/23/23 Analyzed: 03/02/23					



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B326575-BS1)				Prepared: 02/23/23 Analyzed: 03/02/23					
Antimony	521	ug/L		555.6		94	80-120		
Arsenic	526	ug/L		555.6		95	80-120		
Barium	521	ug/L		555.6		94	80-120		
Beryllium	542	ug/L		555.6		98	80-120		
Boron	538	ug/L		555.6		97	80-120		
Cadmium	528	ug/L		555.6		95	80-120		
Calcium	5.35	mg/L		5.556		96	80-120		
Chromium	526	ug/L		555.6		95	80-120		
Cobalt	528	ug/L		555.6		95	80-120		
Lead	557	ug/L		555.6		100	80-120		
Magnesium	5.74	mg/L		5.556		103	80-120		
Mercury	52.0	ug/L		55.56		94	80-120		
Molybdenum	505	ug/L		555.6		91	80-120		
Potassium	5.46	mg/L		5.556		98	80-120		
Selenium	529	ug/L		555.6		95	80-120		
Sodium	5.86	mg/L		5.556		105	80-120		
Thallium	541	ug/L		555.6		97	80-120		
<u>Batch B326597 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B326597-CCB1)				Prepared & Analyzed: 02/22/23					
Chloride	0.00	mg/L							
Calibration Check (B326597-CCV1)				Prepared & Analyzed: 02/22/23					
Chloride	4.59	mg/L		5.000		92	90-110		
<u>Batch B326600 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B326600-CCB1)				Prepared & Analyzed: 02/22/23					
Fluoride	0.00	mg/L							
Chloride	0.209	mg/L							
Sulfate	0.00	mg/L							
Calibration Check (B326600-CCV1)				Prepared & Analyzed: 02/22/23					
Chloride	4.78	mg/L		5.000		96	90-110		
Sulfate	4.84	mg/L		5.000		97	90-110		
Fluoride	5.01	mg/L		5.000		100	90-110		
<u>Batch B326721 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B326721-CCB1)				Prepared & Analyzed: 02/23/23					
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.226	mg/L							
Calibration Check (B326721-CCV1)				Prepared & Analyzed: 02/23/23					
Fluoride	5.08	mg/L		5.000		102	90-110		
Sulfate	4.89	mg/L		5.000		98	90-110		
Chloride	4.87	mg/L		5.000		97	90-110		
<u>Batch B326745 - No Prep - SM 2320B 1997</u>									
Blank (B326745-BLK1)				Prepared & Analyzed: 02/24/23					
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L							



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B326745-BLK1)				Prepared & Analyzed: 02/24/23					
Alkalinity - bicarbonate as CaCO ₃	2.50	mg/L							
Blank (B326745-BLK2)				Prepared & Analyzed: 02/24/23					
Alkalinity - bicarbonate as CaCO ₃	2.50	mg/L							
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L							
Blank (B326745-BLK3)				Prepared & Analyzed: 02/24/23					
Alkalinity - bicarbonate as CaCO ₃	2.50	mg/L							
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L							
<u>Batch B328540 - No Prep - SM 2320B 1997</u>									
Duplicate (B328540-DUP1)				Sample: GB03332-14		Prepared & Analyzed: 03/17/23			
Alkalinity - bicarbonate as CaCO ₃	388	mg/L	H		375			3	10
Alkalinity - carbonate as CaCO ₃	< 10	mg/L	H		ND				10



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

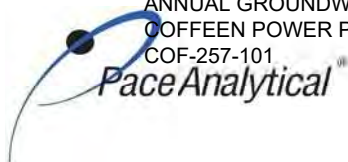
Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

H Test performed after the expiration of the appropriate regulatory/advisory maximum allowable hold time.

Certified by: Gail Schindler, Project Manager





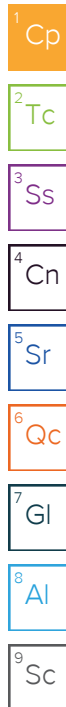
ANALYTICAL REPORT

March 29, 2023

Revised Report

Pace IR - Peoria, IL

Sample Delivery Group: L1590063
Samples Received: 02/28/2023
Project Number: GB03506
Description: Vistra-Coffeen
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

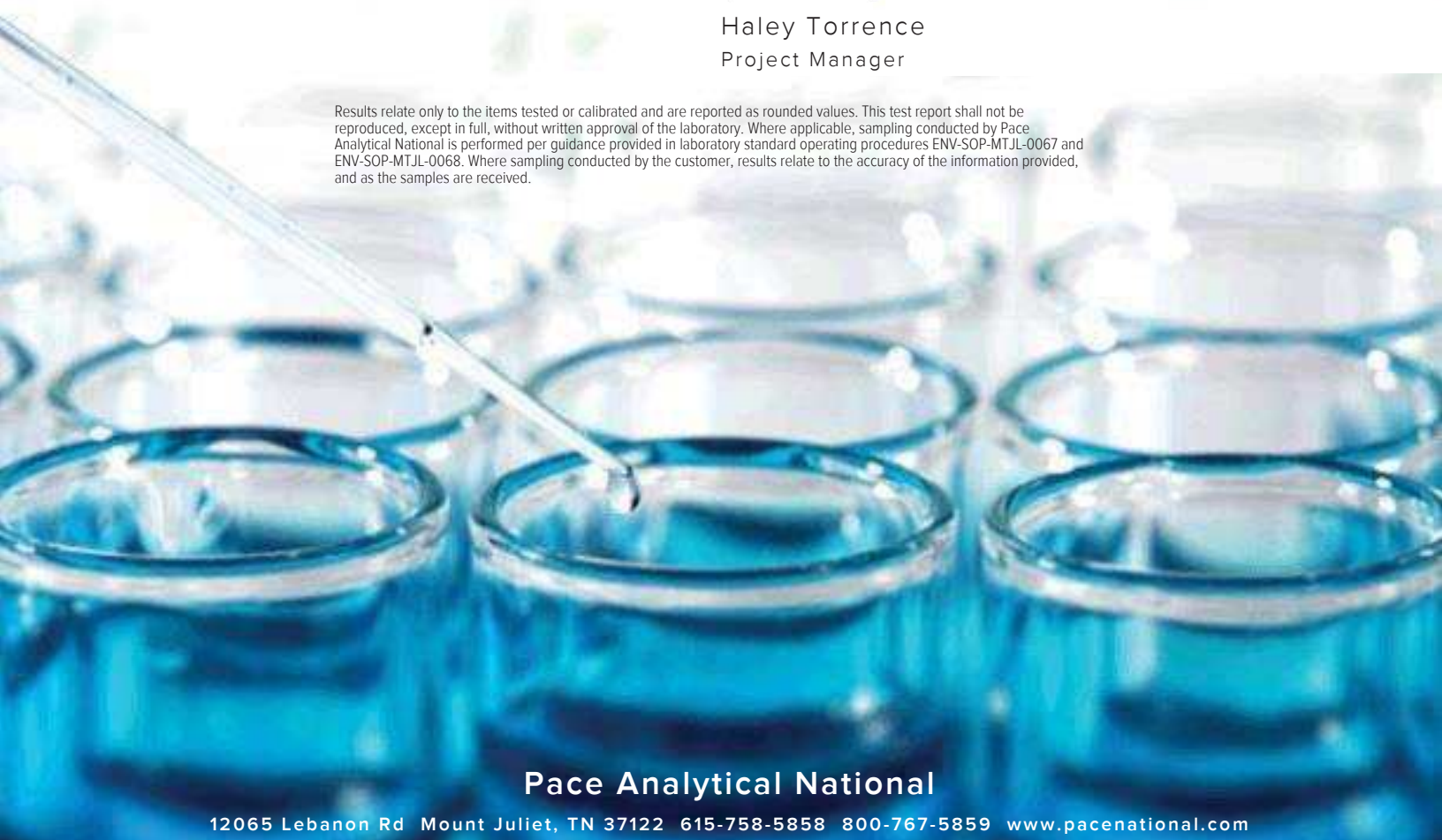


Entire Report Reviewed By:

Haley Torrence

Haley Torrence
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

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Collected by
Collected date/time
Received date/time
02/16/23 13:00 02/28/23 10:30

G200 L1590063-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2019014	1	03/13/23 16:35	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2019014	1	03/13/23 16:35	03/15/23 10:22	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 11:12 02/28/23 10:30

G206D L1590063-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2019014	1	03/13/23 16:35	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2019014	1	03/13/23 16:35	03/15/23 10:22	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 10:23 02/28/23 10:30

G206 L1590063-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2019014	1	03/13/23 16:35	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2019014	1	03/13/23 16:35	03/15/23 10:22	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 13:12 02/28/23 10:30

G218 L1590063-04 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2019014	1	03/13/23 16:35	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2019014	1	03/13/23 16:35	03/15/23 10:22	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 15:14 02/28/23 10:30

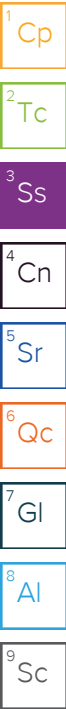
G270 L1590063-05 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2019014	1	03/13/23 16:35	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2019014	1	03/13/23 16:35	03/16/23 22:32	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 14:57 02/28/23 10:30

G271 L1590063-06 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2019014	1	03/13/23 16:35	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2019014	1	03/13/23 16:35	03/16/23 22:32	RGT	Mt. Juliet, TN



Collected by
Collected date/time
Received date/time
02/16/23 15:18 02/28/23 10:30

G273 L1590063-07 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2019014	1	03/13/23 16:35	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2019014	1	03/13/23 16:35	03/16/23 22:32	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 11:27 02/28/23 10:30

G279 L1590063-08 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2019014	1	03/13/23 16:35	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2019014	1	03/13/23 16:35	03/16/23 22:32	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 10:18 02/28/23 10:30

G280 L1590063-09 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020909	1	03/15/23 09:06	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020909	1	03/15/23 09:06	03/17/23 11:38	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 14:19 02/28/23 10:30

G281 L1590063-10 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020909	1	03/15/23 09:06	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020909	1	03/15/23 09:06	03/17/23 11:38	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 11:26 02/28/23 10:30

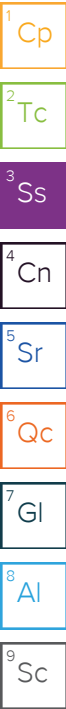
G306 L1590063-11 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020909	1	03/15/23 09:06	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020909	1	03/15/23 09:06	03/17/23 11:38	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 12:49 02/28/23 10:30

G308 L1590063-12 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020909	1	03/15/23 09:06	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020909	1	03/15/23 09:06	03/17/23 11:38	RGT	Mt. Juliet, TN



Collected by
Collected date/time
Received date/time
02/16/23 13:48 02/28/23 10:30

G310 L1590063-13 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020909	1	03/15/23 09:06	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020909	1	03/15/23 09:06	03/17/23 11:38	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 11:53 02/28/23 10:30

G313 L1590063-14 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020909	1	03/15/23 09:06	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020909	1	03/15/23 09:06	03/17/23 11:38	RRE	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 10:57 02/28/23 10:30

G314D L1590063-15 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020909	1	03/15/23 09:06	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020909	1	03/15/23 09:06	03/17/23 11:38	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 10:03 02/28/23 10:30

G314 L1590063-16 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2025500	1	03/20/23 18:55	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020909	1	03/15/23 09:06	03/23/23 14:27	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020909	1	03/15/23 09:06	03/17/23 11:38	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
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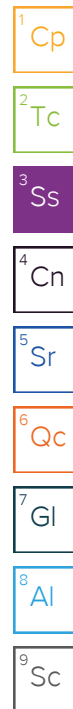
G316 L1590063-17 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027048	1	03/21/23 16:44	03/24/23 10:08	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020909	1	03/15/23 09:06	03/24/23 10:08	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020909	1	03/15/23 09:06	03/17/23 11:38	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/16/23 10:05 02/28/23 10:30

R201 L1590063-18 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027048	1	03/21/23 16:44	03/24/23 10:08	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020909	1	03/15/23 09:06	03/24/23 10:08	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020909	1	03/15/23 09:06	03/17/23 11:38	RGT	Mt. Juliet, TN



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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.



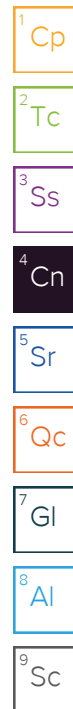
Haley Torrence
Project Manager

Report Revision History

Level II Report - Version 1: 03/28/23 09:03

Project Narrative

Sample IDs



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.710		0.316	0.575	03/23/2023 14:27	WG2025500
(T) Barium	79.7			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	94.6			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.83		0.552	0.665	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.12		0.452	0.335	03/15/2023 10:22	WG2019014
(T) Barium-133	91.1			30.0-143	03/15/2023 10:22	WG2019014

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101
Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.446	J	0.261	0.480	03/23/2023 14:27	WG2025500
(T) Barium	83.4			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	102			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.971		0.436	0.616	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.526		0.349	0.386	03/15/2023 10:22	WG2019014
(T) Barium-133	83.8			30.0-143	03/15/2023 10:22	WG2019014

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.110	U	0.209	0.404	03/23/2023 14:27	WG2025500
(T) Barium	85.6			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	103			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.277	J	0.306	0.469	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.277		0.223	0.239	03/15/2023 10:22	WG2019014
(T) Barium-133	81.7			30.0-143	03/15/2023 10:22	WG2019014

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.165	<u>U</u>	0.309	0.584	03/23/2023 14:27	WG2025500
(T) Barium	87.0			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	119			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.200	<u>U</u>	0.379	0.652	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.200	<u>J</u>	0.219	0.289	03/16/2023 22:32	WG2019014
(T) Barium-133	83.4			30.0-143	03/16/2023 22:32	WG2019014

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.0573	<u>U</u>	0.292	0.551	03/23/2023 14:27	WG2025500
(T) Barium	80.6			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	93.1			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.199	<u>U</u>	0.334	0.589	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.142	<u>J</u>	0.162	0.208	03/16/2023 22:32	WG2019014
(T) Barium-133	77.6			30.0-143	03/16/2023 22:32	WG2019014

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.434	<u>U</u>	0.276	0.535	03/23/2023 14:27	WG2025500
(T) Barium	81.5			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	110			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.226	<u>U</u>	0.362	0.612	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.226	<u>J</u>	0.234	0.298	03/16/2023 22:32	WG2019014
(T) Barium-133	76.4			30.0-143	03/16/2023 22:32	WG2019014

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.798	<u>U</u>	0.354	0.694	03/23/2023 14:27	WG2025500
(T) Barium	85.5			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	85.3			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.000	<u>U</u>	0.403	0.806	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	-0.0735	<u>U</u>	0.193	0.409	03/16/2023 22:32	WG2019014
(T) Barium-133	70.3			30.0-143	03/16/2023 22:32	WG2019014

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.197	U	0.282	0.538	03/23/2023 14:27	WG2025500
(T) Barium	87.9			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	101			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0325	U	0.364	0.661	03/23/2023 14:27	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0325	U	0.230	0.384	03/17/2023 11:38	WG2020909
(T) Barium-133	91.0			30.0-143	03/17/2023 11:38	WG2020909

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.212	U	0.287	0.554	03/23/2023 14:27	WG2025500
(T) Barium	74.2			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	99.9			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0779	U	0.343	0.637	03/23/2023 14:27	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0779	U	0.187	0.315	03/17/2023 11:38	WG2020909
(T) Barium-133	83.2			30.0-143	03/17/2023 11:38	WG2020909

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.0967	U	0.266	0.509	03/23/2023 14:27	WG2025500
(T) Barium	88.7			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	88.1			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0469	U	0.333	0.619	03/23/2023 14:27	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0469	U	0.200	0.353	03/17/2023 11:38	WG2020909
(T) Barium-133	84.6			30.0-143	03/17/2023 11:38	WG2020909

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.401	J	0.276	0.511	03/23/2023 14:27	WG2025500
(T) Barium	89.7			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	99.6			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.444	J	0.334	0.618	03/23/2023 14:27	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0429	U	0.188	0.347	03/17/2023 11:38	WG2020909
(T) Barium-133	88.0			30.0-143	03/17/2023 11:38	WG2020909

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.756		0.393	0.720	03/23/2023 14:27	WG2025500
(T) Barium	74.8			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	82.5			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.771	J	0.445	0.814	03/23/2023 14:27	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0154	U	0.208	0.379	03/17/2023 11:38	WG2020909
(T) Barium-133	85.3			30.0-143	03/17/2023 11:38	WG2020909

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101
Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.399	U	0.300	0.586	03/23/2023 14:27	WG2025500
(T) Barium	81.6			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	88.0			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.00922	U	0.323	0.653	03/23/2023 14:27	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.00922	U	0.121	0.287	03/17/2023 11:38	WG2020909
(T) Barium-133	79.1			30.0-143	03/17/2023 11:38	WG2020909

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101
Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.934		0.349	0.631	03/23/2023 14:27	WG2025500
(T) Barium	80.2			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	97.5			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.74		0.488	0.667	03/23/2023 14:27	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.810		0.341	0.217	03/17/2023 11:38	WG2020909
(T) Barium-133	89.9			30.0-143	03/17/2023 11:38	WG2020909

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.455	J	0.256	0.470	03/23/2023 14:27	WG2025500
(T) Barium	88.5			30.0-143	03/23/2023 14:27	WG2025500
(T) Yttrium	104			30.0-136	03/23/2023 14:27	WG2025500

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.533	J	0.310	0.558	03/23/2023 14:27	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0779	U	0.174	0.300	03/17/2023 11:38	WG2020909
(T) Barium-133	80.2			30.0-143	03/17/2023 11:38	WG2020909

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.140	<u>U</u>	0.315	0.596	03/24/2023 10:08	WG2027048
(T) Barium	79.8			30.0-143	03/24/2023 10:08	WG2027048
(T) Yttrium	106			30.0-136	03/24/2023 10:08	WG2027048

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.202	<u>U</u>	0.362	0.626	03/24/2023 10:08	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.202		0.178	0.190	03/17/2023 11:38	WG2020909
(T) Barium-133	85.1			30.0-143	03/17/2023 11:38	WG2020909

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.34		0.413	0.739	03/24/2023 10:08	WG2027048
(T) Barium	70.5			30.0-143	03/24/2023 10:08	WG2027048
(T) Yttrium	93.7			30.0-136	03/24/2023 10:08	WG2027048

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.46		0.449	0.785	03/24/2023 10:08	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.121	J	0.176	0.266	03/17/2023 11:38	WG2020909
(T) Barium-133	85.7			30.0-143	03/17/2023 11:38	WG2020909

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3905800-1 03/23/23 14:27

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.0480	<u>U</u>	0.145	0.274
(T) Barium	95.5		95.5	
(T) Yttrium	88.5		88.5	

L1590063-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1590063-06 03/23/23 14:27 • (DUP) R3905800-5 03/23/23 14:27

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.0573	0.292	0.551	0.0469	0.350	0.551	1	19.8	0.0227	<u>U</u>	20	3
(T) Barium	80.6			91.0	91.0							
(T) Yttrium	93.1			111	111							

Laboratory Control Sample (LCS)

(LCS) R3905800-2 03/23/23 14:27

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.04	80.8	80.0-120	
(T) Barium			96.5		
(T) Yttrium			99.0		

L1590058-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1590058-01 03/23/23 14:27 • (MS) R3905800-3 03/23/23 14:27 • (MSD) R3905800-4 03/23/23 14:27

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.786	9.08	8.19	82.9	74.0	1	70.0-130			10.3		20
(T) Barium		92.8			98.7	99.3							
(T) Yttrium		80.0			113	114							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3905209-1 03/24/23 10:08

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.269		0.148	0.272
(T) Barium	88.5		88.5	
(T) Yttrium	96.7		96.7	

L1590066-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1590066-08 03/24/23 10:08 • (DUP) R3905209-5 03/24/23 10:08

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.581	0.279	0.509	0.143	0.334	0.509	1	121	1.01		20	3
(T) Barium	81.5			101	101							
(T) Yttrium	93.1			102	102							

Laboratory Control Sample (LCS)

(LCS) R3905209-2 03/24/23 10:08

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.40	108	80.0-120	
(T) Barium			103		
(T) Yttrium			95.8		

L1590063-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1590063-17 03/24/23 10:08 • (MS) R3905209-3 03/24/23 10:08 • (MSD) R3905209-4 03/24/23 10:08

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	-0.140	21.0	18.0	126	108	1	70.0-130			15.4		20
(T) Barium		79.8			79.4	90.1							
(T) Yttrium		106			99.2	103							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3902467-1 03/15/23 10:22				
Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	-0.0100	<u>U</u>	0.0639	0.125
(T) Barium-133	67.0		67.0	

L1590063-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1590063-07 03/16/23 22:32 • (DUP) R3902467-5 03/15/23 10:22												
Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.226	0.234	0.298	-0.0426	0.277	0.298	1	200	0.740	<u>U</u>	20	3
(T) Barium-133	76.4			69.4	69.4							

Laboratory Control Sample (LCS)

(LCS) R3902467-2 03/15/23 10:22					
Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.94	98.6	80.0-120	
(T) Barium-133			77.4		

L1591962-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1591962-28 03/16/23 22:32 • (MS) R3902467-3 03/15/23 10:22 • (MSD) R3902467-4 03/15/23 10:22													
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	MS RER	RPD Limits
Analyte	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.0150	19.8	22.1	99.1	111	1	75.0-125			11.0		20
(T) Barium-133		84.2			87.8	82.4							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3902489-1 03/16/23 23:52				
Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.000	<u>U</u>	0.0356	0.0705
(T) Barium-133	84.7		84.7	

L1590063-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1590063-10 03/17/23 11:38 • (DUP) R3902489-5 03/17/23 11:38												
Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.0779	0.187	0.315	0.153	0.212	0.315	1	64.9	0.265	<u>J</u>	20	3
(T) Barium-133	83.2			94.0	94.0							

Laboratory Control Sample (LCS)

(LCS) R3902489-2 03/17/23 11:38					
Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.97	119	80.0-120	
(T) Barium-133			86.8		

L1590066-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1590066-09 03/17/23 11:39 • (MS) R3902489-3 03/17/23 11:38 • (MSD) R3902489-4 03/17/23 11:38													
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	MS RER	RPD Limits
Analyte	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.0767	22.0	22.2	109	110	1	75.0-125			0.861		20
(T) Barium-133		98.8			87.3	89.1							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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.

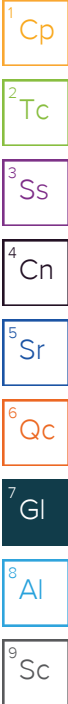
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

ACCREDITATIONS & LOCATIONS

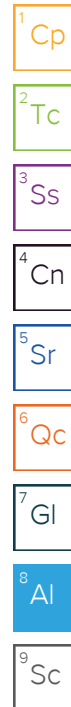
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Internal Transfer Chain of Custody

State of Origin: IL
Cert. Needed: ☒ YES ☐ NO



Workorder: GB03506 Workorder Name: Vistra - Coffeen Owner Received Date: 2/16/2023 Results Required By: 3/16/2023

Report To: Subcontract To: Requested Analysis

Gail Schindler
Pace Analytical - IL/MO
2231 W. Altorfer Drive
Peoria, IL 61615
800-752-6651

Pace Analytical - Mt Juliet
12065 Lebanon Rd
Mt Juliet TN 37122

J031

UFG90063

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers				Radium 226	Radium 228											LAB USE ONLY
1	G200	GRAB	2/16/2023 13:00	GB03506-01	GW					X	X											-01
2	G206D	GRAB	2/16/2023 11:12	GB03506-02	GW					X	X											-02
3	G206	GRAB	2/16/2023 10:23	GB03506-03	GW					X	X											-03
4	G218	GRAB	2/16/2023 13:12	GB03506-04	GW					X	X											-04
5	G270	GRAB	2/16/2023 15:14	GB03506-05	GW					X	X											-05
6	G271	GRAB	2/16/2023 14:57	GB03506-06	GW					X	X											-06
7	G273	GRAB	2/16/2023 15:18	GB03506-07	GW					X	X											-07
8	G279	GRAB	2/16/2023 11:27	GB03506-08	GW					X	X											-08
9	G280	GRAB	2/16/2023 10:18	GB03506-09	GW					X	X											-09
10	G281	GRAB	2/16/2023 14:19	GB03506-10	GW					X	X											-10
Transfers		Released By		Date/Time		Received By		Date/Time		Comments												
1		E. M. M. M.		2/23/23 12:25		P. Y. G.		2/28/23 10:30		Needs reported as 226, 228 and also combined 226/228												
2																						
3										Include QC summary and add												

Cooler Temperature on Receipt _____ °C Custody Seal ☒ Y or N Received on Ice ☒ Y or N Sample Intact ☒ Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

FMT-ALL-C-002rev.00 24March2009

Page 1 of 2

Sample Receipt Checklist
COC Seal Present/Intact: ☒ Y ☐ N If Applicable
COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headspace: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N Pres. Correct/Check: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

CT.18

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Internal Transfer Chain of Custody

State of Origin: IL
Cert. Needed: ☒ YES ☐ NO



Workorder: GB03506 Workorder Name: Vistra - Coffeen Owner Received Date: 2/16/2023 Results Required By: 3/16/2023

Report To: Subcontract To: Requested Analysis

Gail Schindler
Pace Analytical - IL/MO
2231 W. Altorfer Drive
Peoria, IL 61615
800-752-6651

Pace Analytical - Mt Juliet
12065 Lebanon Rd
Mt Juliet TN 37122

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers				Radium 226	Radium 228	Requested Analysis										LAB USE ONLY
1	G306	GRAB	2/16/2023 11:26	GB03506-11	GW					X	X											-11
2	G308	GRAB	2/16/2023 12:49	GB03506-12	GW					X	X											-12
3	G310	GRAB	2/16/2023 13:48	GB03506-13	GW					X	X											-13
4	G313	GRAB	2/16/2023 11:53	GB03506-14	GW					X	X											-14
5	G314D	GRAB	2/16/2023 10:57	GB03506-15	GW					X	X											-15
6	G314	GRAB	2/16/2023 10:03	GB03506-16	GW					X	X											-16
7	G316	GRAB	2/16/2023 10:25	GB03506-17	GW					X	X											-17
8	R201	GRAB	2/16/2023 10:05	GB03506-18	GW					X	X											-18
9																						-19
10																						HR 2128

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>E A HAW</i>	2/23/23 12:25			Needs reported as 226, 228 and also combined 226/228
2			<i>Wendy H</i>	2/28/23 10:30	Include QC summary and add
3					

Cooler Temperature on Receipt _____ °C Custody Seal ☒ Y or N Received on Ice ☒ Y or N Sample Intact ☒ Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.



Ship to :
Pace Analytical Services, LLC
1638 Roseytown Rd - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

INTER_LABORATORY WORK ORDER # GB03506

(To be complete by sending lab)

Sending Project No:	GB03506
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	2/22/2023
REQUESTED COMPLETION DATE:	3/16/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRA - COFFEEEN
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units _____

Report Wet or Dry Weight? _____

Cert Needed: IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226		18		18	\$87.30	\$1,571.40
Radium 228		18		18	\$87.30	\$1,571.40
		1		1		\$0.00
TOTAL						\$3,142.80

Special Requirements:

Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$3,142.80	\$2,514.24	\$628.56
* Custom Revenue Allocation		TOTAL	\$2,514.24	\$628.56

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☒ No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Tracking Numbers	Temperature
VPS Ground	19.6°C
	15.6°C
	15.8°C
	21.4°C
	15.7°C
	21.0°C
	20.4°C
	20.2°C

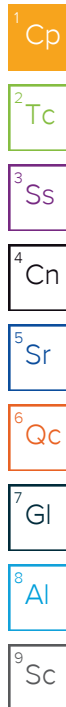
LF90063

ANALYTICAL REPORT

March 28, 2023

Pace IR - Peoria, IL

Sample Delivery Group: L1590072
Samples Received: 02/28/2023
Project Number: GB03508
Description: Vistra-Coffeen
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615



Entire Report Reviewed By:

Haley Torrence

Haley Torrence
Project Manager

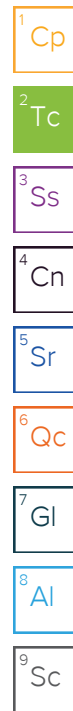
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory 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

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APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

SAMPLE SUMMARY

Collected by
Collected date/time
Received date/time
02/15/23 13:12 02/28/23 10:30

G209 L1590072-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:36	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/15/23 10:59 02/28/23 10:30

G213 L1590072-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:36	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/15/23 12:04 02/28/23 10:30

G215 L1590072-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:36	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/15/23 17:08 02/28/23 10:30

G217 L1590072-04 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:36	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/15/23 15:45 02/28/23 10:30

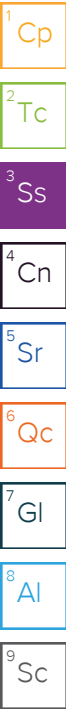
G276 L1590072-05 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:36	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/15/23 13:30 02/28/23 10:30

G301 L1590072-06 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:36	RGT	Mt. Juliet, TN



APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

SAMPLE SUMMARY

Collected by
Collected date/time
Received date/time
02/15/23 12:30 02/28/23 10:30

G302 L1590072-07 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:36	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/15/23 15:52 02/28/23 10:30

G303 L1590072-08 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:36	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/15/23 14:52 02/28/23 10:30

G305 L1590072-09 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:37	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/15/23 15:24 02/28/23 10:30

G307 L1590072-10 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:37	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/15/23 16:25 02/28/23 10:30

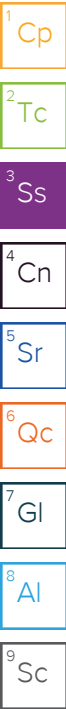
G307D L1590072-11 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:37	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
02/15/23 11:19 02/28/23 10:30

G315 L1590072-12 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:37	RGT	Mt. Juliet, TN



APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

SAMPLE SUMMARY

Collected by
Collected date/time
Received date/time

G401 L1590072-13 Non-Potable Water

02/15/23 11:55
02/28/23 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:37	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

G402 L1590072-14 Non-Potable Water

02/15/23 10:45
02/28/23 10:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:37	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

G403 L1590072-15 Non-Potable Water

02/15/23 13:02
02/28/23 10:30

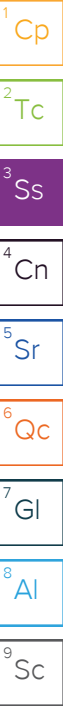
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:37	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

G1001 L1590072-16 Non-Potable Water

02/15/23 10:15
02/28/23 10:30

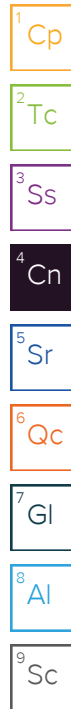
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2027487	1	03/21/23 23:01	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020910	1	03/15/23 11:37	03/27/23 10:20	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020910	1	03/15/23 11:37	03/16/23 17:37	RGT	Mt. Juliet, TN



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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.



Haley Torrence
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.874		0.383	0.685	03/27/2023 10:20	WG2027487
(T) Barium	74.0			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	83.6			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.03		0.423	0.725	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.160	J	0.180	0.237	03/16/2023 17:36	WG2020910
(T) Barium-133	95.8			30.0-143	03/16/2023 17:36	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.38		0.320	0.554	03/27/2023 10:20	WG2027487
(T) Barium	81.6			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	105			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.08		0.441	0.588	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.705		0.304	0.198	03/16/2023 17:36	WG2020910
(T) Barium-133	98.8			30.0-143	03/16/2023 17:36	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.331	J	0.386	0.705	03/27/2023 10:20	WG2027487
(T) Barium	72.4			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	96.0			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.463	J	0.421	0.745	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.132	J	0.169	0.241	03/16/2023 17:36	WG2020910
(T) Barium-133	104			30.0-143	03/16/2023 17:36	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.558	J	0.388	0.703	03/27/2023 10:20	WG2027487
(T) Barium	73.7			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	106			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.637	J	0.404	0.721	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0797	J	0.111	0.162	03/16/2023 17:36	WG2020910
(T) Barium-133	108			30.0-143	03/16/2023 17:36	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101
Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.520	J	0.406	0.739	03/27/2023 10:20	WG2027487
(T) Barium	69.5			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	87.5			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.520	J	0.417	0.773	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.000	U	0.0956	0.228	03/16/2023 17:36	WG2020910
(T) Barium-133	106			30.0-143	03/16/2023 17:36	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.766		0.277	0.492	03/27/2023 10:20	WG2027487
(T) Barium	78.4			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	98.5			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.766		0.298	0.570	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	-0.109	U	0.110	0.288	03/16/2023 17:36	WG2020910
(T) Barium-133	105			30.0-143	03/16/2023 17:36	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.0402	U	0.266	0.500	03/27/2023 10:20	WG2027487
(T) Barium	77.7			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	97.5			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.133	U	0.318	0.558	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.133	J	0.174	0.248	03/16/2023 17:36	WG2020910
(T) Barium-133	101			30.0-143	03/16/2023 17:36	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.288	J	0.276	0.510	03/27/2023 10:20	WG2027487
(T) Barium	69.3			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	95.2			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.412	J	0.339	0.590	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.125	J	0.197	0.297	03/16/2023 17:36	WG2020910
(T) Barium-133	94.7			30.0-143	03/16/2023 17:36	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.400	J	0.463	0.847	03/27/2023 10:20	WG2027487
(T) Barium	80.8			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	98.3			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.22		0.621	0.918	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.824		0.414	0.355	03/16/2023 17:37	WG2020910
(T) Barium-133	82.5			30.0-143	03/16/2023 17:37	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101
Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.03		0.305	0.534	03/27/2023 10:20	WG2027487
(T) Barium	69.2			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	98.3			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.15		0.360	0.611	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.119	J	0.191	0.296	03/16/2023 17:37	WG2020910
(T) Barium-133	86.7			30.0-143	03/16/2023 17:37	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.31		0.343	0.597	03/27/2023 10:20	WG2027487
(T) Barium	66.2			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	96.0			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.34		0.380	0.683	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0273	U	0.164	0.331	03/16/2023 17:37	WG2020910
(T) Barium-133	82.3			30.0-143	03/16/2023 17:37	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.910	U	0.347	0.665	03/27/2023 10:20	WG2027487
(T) Barium	78.1			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	105			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0669	U	0.387	0.731	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0669	U	0.172	0.304	03/16/2023 17:37	WG2020910
(T) Barium-133	80.2			30.0-143	03/16/2023 17:37	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-1.01	U	0.472	0.897	03/27/2023 10:20	WG2027487
(T) Barium	74.0			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	77.4			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0518	U	0.493	0.936	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0518	U	0.142	0.269	03/16/2023 17:37	WG2020910
(T) Barium-133	83.4			30.0-143	03/16/2023 17:37	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.429	J	0.350	0.636	03/27/2023 10:20	WG2027487
(T) Barium	64.2			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	99.3			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.522	J	0.420	0.742	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0933	U	0.232	0.383	03/16/2023 17:37	WG2020910
(T) Barium-133	74.0			30.0-143	03/16/2023 17:37	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.382	J	0.283	0.512	03/27/2023 10:20	WG2027487
(T) Barium	79.3			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	90.2			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.433	J	0.315	0.576	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0506	U	0.138	0.263	03/16/2023 17:37	WG2020910
(T) Barium-133	67.4			30.0-143	03/16/2023 17:37	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	4.85		0.622	0.987	03/27/2023 10:20	WG2027487
(T) Barium	63.9			30.0-143	03/27/2023 10:20	WG2027487
(T) Yttrium	104			30.0-136	03/27/2023 10:20	WG2027487

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	6.22		0.799	1.05	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.38		0.502	0.363	03/16/2023 17:37	WG2020910
(T) Barium-133	76.6			30.0-143	03/16/2023 17:37	WG2020910

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-Q1-2023	Joseph R Reed	2/19/23	700		2/15/23	1600	2.1 N +

2/15/23

VISTRA - COFFEEN
COFFEEN 1Q23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: Vistra Corp Address: 13498 E. 900th St Email To: Brian.Voelker@VistraCorp.com Phone: (217) 753-8911 Fax: Requested Due Date/TAT: standard		Section B Required Project Information: Report To: Brian Voelker Copy To: Jason Stuckey Purchase Order No.: Project Name: Project Number: 2285		Section C Invoice Information: Attention: Jason Stuckey Company Name: Vistra Corp Address: see Section A Quote Reference: Project Manager: Profile #: Site Location: IL STATE:		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER		Page: 2 of 6																		
Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes	MATRIX	CODE	Requested Analysis Filtered (Y/N)	Project No. / Lab I.D.																					
	DRINKING WATER	DW																								
	WATER	WT																								
	WASTE WATER	WW																								
	PRODUCT	P																								
	SOIL/SOLID	SL																								
	OIL	OL																								
	WIPE	WP																								
	AIR	AR																								
	OTHER	OT																								
	TISSUE	TS																								
	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED			DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Y/N	COF_257_101	COF_257_102	COF_257_103	COF_257_104	COF_257_105	COF_811_105	COF_WPCP_102	COF_WPCP_103	COF_WPCP_104	COF_WPCP_106	Residual Chlorine (Y/N)			
	G125																									
	G126																									
	G151																									
	G152																									
	G153																									
G154																										
G155																										
G200																										
G206																										
G206D																										
G207																										
G208																										
G209																										
G210																										
G211																										
G212																										
ADDITIONAL COMMENTS COF-Q1-2023				RELINQUISHED BY / AFFILIATION Joseph R. Reed	DATE 2/15/23	TIME 700	ACCEPTED BY / AFFILIATION Joe Reed	DATE 2/15/23	TIME 1600	SAMPLE CONDITIONS Received on Ice (Y/N) Y Custody Sealed Cooler (Y/N) N Samples Intact (Y/N) Y																

Joe Reed 2/15/23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Project Name:		Quote Reference:	
Fax:		Project Manager:		Project Manager:	
Requested Due Date/TAT:	standard	Project Number:	2285	Profile #	

Page: 3 of 6

REGULATORY AGENCY	
NPDES	GROUND WATER
UST	RCRA
OTHER	DRINKING WATER
Site Location	IL
STATE:	

ITEM #	Valid Matrix Codes MATRIX CODE DW WT WW P SL CL OL WPE AIR OTHER TSSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Y/N	Requested Analysis Filtered (Y/N)																Project No./Lab I.D.
				DATE	TIME																				
1	G213		G	2/14/23	1129	6																			
2	G214																								
3	G215																								
4	G216		G	2/14/23	1223	6																			
5	G217																								
6	G218																								
7	G270																								
8	G271																								
9	G272																								
10	G273																								
11	G274																								
12	G275																								
13	G276																								
14	G277																								
15	G278																								
16	G279																								

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
COF-Q1-2023		Joseph R. Reed	2/15/23	700	Joseph R. Reed	2/15/23	1600	Received on	Temp in °C	Sealed Cooler	Custody	Samples Intact
								2-1	2-1	N	N	Y

2/15/23

Joseph R. Reed

DATE Signed (MM/DD/YYYY): 2/15/23

VISTRA - COFFEEN
COFFEEN 1Q23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Project Name:		Quote Reference:	
Requested Due Date/TAT:	standard	Project Number:	2285	Project Manager:	
				Profile #:	

Page: 5 of 6

REGULATORY AGENCY

GROUND WATER

RCRA

OTHER

Site Location

STATE:

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	DW DRINKING WATER WT WATER WW WASTE WATER P PRODUCT SL SOLID/SOLID OIL WPE WATER AIR OTHER TSS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COM)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES										↑Analysis Test ↓	Y	Residual Chlorine (Y/N)	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
									Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
1	G316																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
COF-Q1-2023		Joseph R. Reed	2/15/23	700				Received on	Temp in °C
								Sealed Cooler	
								Custody	
								Samples Intact	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joseph R. Reed
SIGNATURE of SAMPLER: [Signature]
DATE Signed (MM/DD/YYYY): 2/15/23

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone: (217) 753-8911	Fax:	Project Name:		Quote Reference:	
Requested Due Date/TAT:	standard	Project Number:	2285	Project Manager:	
				Profile #:	

Page: 1 of 6

REGULATORY AGENCY	
NPDES	GROUND WATER
UST	DRINKING WATER
	OTHER
Site Location	IL
STATE:	

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WT PRODUCT WATER PW SOLID WASTE SW WPE AIR OTHER TSS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Y/N	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.
1		G101		2/13/23	1017	4													
2		G102																	
3		G103																	
4		G105																	
5		G106																	
6		G107																	
7		G108																	
8		G109																	
9		G110																	
10		G111																	
11		G119		2/15/23	1142	4													
12		G120		2/15/23	1220	4													
13		G121		2/15/23	1305	4													
14		G122		2/15/23	1417	4													
15		G123		2/15/23	1548	4													
16		G124		2/15/23	1448	4													

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
COF-Q1-2023		Jason R. Reed	2/16/23	700	Jason R. Reed	2/16/23	1430	Temp in °C	28
		Signature	DATE	TIME	Signature	DATE	TIME	Received on	Y/N
		Signature	DATE	TIME	Signature	DATE	TIME	Sealed Cooler	Y/N
		Signature	DATE	TIME	Signature	DATE	TIME	Samples Intact	Y/N

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Section D Required Client Information											
Valid Matrix Codes											
MATRIX	CODE										
DRINKING WATER	DW										
WATER	WT										
WASTE WATER	WW										
INDUCT F.	F.										
SOLID	SL										
OIL	OL										
WIPE	WP										
AIR	AR										
OTHER	OT										
TISSUE	TS										
SAMPLE ID (A-Z, 0-9 / -)		Sample IDs MUST BE UNIQUE									
ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION TIME	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Y/N	Requested Analysis Filtered (Y/N)			Project No./ Lab I.D.
1	G125		2/15/23	1344	6						
2	G126		2/15/23	1708	4						
3	G151										
4	G152										
5	G153										
6	G154										
7	G155										
8	G200										
9	G206										
10	G206D										
11	G207										
12	G208										
13	G209	G	2/15/23	1312	7						
14	G210										
15	G211	G	2/15/23	948	6						
16	G212										
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
COF-Q1-2023			Jessie R Reed	2/16/23	708	Jesse R Reed		2-16	1126	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)
			Jessie R Reed	2-16	1415	Jesse R Reed		2/16/23	1430	Temp in °C	Samples Intact (Y/N)
			SAMPLER NAME AND SIGNATURE								
			PRINT Name of SAMPLER:			DATE Signed (MM/DD/YYYY):					
			SIGNATURE of SAMPLER:								

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Page: 3 of 6113

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Project Name:		Quote	
	Fax:			Project	
Requested Due Date/TAT:	standard	Project Number:	2285	Manager:	
				Profile #:	

Section D Required Client Information		Valid Matrix Codes		COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)		MATRIX CODE (see valid codes to left)		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.	
ITEM #	Required Client Information	MATRIX	CODE	DATE	TIME														
1	G316	DRINKING WATER	DW	2/15/23	11:55	G						5							
2	G401	WATER	WT	2/15/23	10:45	G						5							
3	G402	WATER	WT	2/15/23	10:45	G						5							
4	G403	PRODUCT	P	2/15/23	13:02	G						5							
5	G404	SOL/SOLID	SL																
6	G405	OIL	OL																
7	G406	WPE	WP																
8	G407	AR	AR																
9	G410	OTHER	OT																
10	G411	ISSUE	IS																
11	G1001			2/15/23	10:15	G						3							
12	G1003			2/15/23	13:16	G						2							
13	L203			2/15/23	14:13	G						2							
14	NE Riser			2/15/23	11:05	G						7							
15	R104																		
16	R201																		

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
COF-Q1-2023		[Signature]		2/16/23		700		[Signature]		2-11		1123		Received on Ice (Y/N) ☒ Custody Sealed Cooler (Y/N) ☒ Samples Intact (Y/N) ☒	
SAMPPLER NAME AND SIGNATURE: Joe Reed PRINT Name of SAMPPLER: Joseph N Reed SIGNATURE of SAMPPLER: [Signature] DATE Signed (MM/DD/YYYY): 2/16/23															

VISTRA - COFFEEN
COFFEEN 1Q23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Project Name:		Quote:	
Requested Due Date/TAT:	standard	Project Number:	2285	Reference:	
				Project Manager:	
				Profile #:	

REGULATORY AGENCY	
NPDES	GROUND WATER
UST	RCRA
Site Location	OTHER
STATE:	IL

Page: 6 of 6

ITEM #	Valid Matrix Codes MATRIX CODE DW DRINKING WATER WW WASTE WATER P PRODUCT SL SOIL/SOLID OIL WIPE WAX OTHER TSS TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)						Project No./ Lab I.D.		
				DATE	TIME				COF_257_101	COF_257_102	COF_257_103	COF_257_104	COF_257_105	COF_811_105		COF_WPCP_102	COF_WPCP_103
1	R205	G	G	2/15/23	1516	6											
2	SG-02																
3	SG-03																
4	SG-04																
5	T127	G	G	2/15/23	1009	6											
6	T128	G	G	2/15/23	1053	4											
7	X201	G	G	2/15/23	1330	2											
8	XPW01	G	G	2/15/23	1650	2											
9	XPW02	G	G	2/15/23	1621	2											
10	XSG-01																
11																	
12																	
13																	
14																	
15																	
16																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-Q1-2023	Jason R Reed	2/16/23	700	Jason R Reed	2-16	125	Received on Ice (Y/N) Sealed Cooler (Y/N) Samples Intact (Y/N)
	Jason R Reed	2-16	1416	Jason R Reed	2/16/23	1430	Received on Ice (Y/N) Sealed Cooler (Y/N) Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	DATE Signed (MM/DD/YYYY):
Jason R Reed	2/16/23

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Section C
Invoice Information:

SAMPLER NAME AND SIGNATURE

SAMPLER NAME AND SIGNATURE		Temp in °C		Received on	Custody	Sealed Cooler	Samples Intact
PRINT Name of SAMPLER: AM JER, L, B, D, E		DATE Signed (MM/DD/YYYY): 2/16/23					
SIGNATURE of SAMPLER: Custom M. Brown							

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CHAIN-OF-CUSTODY / Analytical Request Document

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APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Section A Required Client Information: Company: Vistra Corp Address: 13498 E. 900th St Email To: Brian.Voelker@VistraCorp.com Phone: (217) 753-8911 Fax: Requested Due Date/TAT: standard		Section B Required Project Information: Report To: Jason Stuckey Copy To: Jason Stuckey Purchase Order No.: Project Name: Project Number: 2285		Section C Invoice Information: Attention: Jason Stuckey Company Name: Vistra Corp Address: see Section A Quote Reference: Project Manager: Profile #:		Page: 4 of 6			
REGULATORY AGENCY NPDES UST RCRA OTHER Site Location STATE: IL									
Section D Required Client Information Valid Matrix Codes MATRIX CODE DRINKING WATER WATER WASTE WATER WASTE PRODUCT P SOIL/SOLID SL OIL WP WP AR OT TS SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP) DATE TIME		COLLECTED DATE TIME		# OF CONTAINERS PRESERVATIVES H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other Analysis Test ↑ Y/N		Requested Analysis Filtered (Y/N) Project No. / Lab I.D.	
1	G280	W	G	2/16/23	10:18	2		COF_257_101	
2	G281				10:19	5		COF_257_102	
3	G301							COF_257_103	
4	G302							COF_257_104	
5	G303							COF_257_105	
6	G305							COF_811_105	
7	G306				11:26	3		COF_WPCP_102	
8	G307							COF_WPCP_103	
9	G307D							COF_WPCP_104	
10	G308				12:49	3		COF_WPCP_106	
11	G310				13:48	3			
12	G312								
13	G313				11:53	3			
14	G314				10:57	3			
15	G314B				10:03	3			
16	G315								
ADDITIONAL COMMENTS COF-Q1-2023		RELINQUISHED BY / AFFILIATION Quatom Mason		DATE 2/16/23		TIME 18:17		ACCEPTED BY / AFFILIATION [Signature]	
		DATE 2/17/23		TIME 8:30		Temp in °C 3.8		SAMPLE CONDITIONS Received on Custody Sealed Cooler Samples Intact	
		SIGNATURE of SAMPLER: Quatom Mason		PRINT Name of SAMPLER: AMY GRJCLING DE		DATE Signed (MM/DD/YYYY): 02/16/23			

VISTRA - COFFEEN
COFFEEN 1Q23

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Section A Required Client Information: Company: <u>Vistra Corp</u> Address: <u>13498 E. 900th St</u> Email To: <u>Brian.Voelker@VistraCorp.com</u> Phone: <u>(217) 753-8911</u> Fax: _____ Requested Due Date/TAT: <u>standard</u>		Section B Required Project Information: Report To: <u>Brian Voelker</u> Copy To: <u>Jason Stuckey</u> Purchase Order No.: _____ Project Name: _____ Project Number: <u>2285</u>		Section C Invoice Information: Attention: <u>Jason Stuckey</u> Company Name: <u>Vistra Corp</u> Address: <u>see Section A</u> Quote Reference: _____ Project Manager: _____ Profile #: _____		Page: <u>5</u> of <u>6</u>	
Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW WASTE WATER WWT PROCESS WATER SW PROCESS WATER SOLID SL OIL OIL WIFE WP AIR AR OTHER OT TISSUE TS		MATRIX CODE (see valid codes to left) <u>W</u>		SAMPLE TYPE (G=GRAB C=COMP) <u>W</u>	
COLLECTED DATE: <u>2/16/23</u> TIME: <u>10:25</u>		SAMPLE TEMP AT COLLECTION <u>3</u>		# OF CONTAINERS <u>3</u>		PRESERVATIVES Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	
Requested Analysis Filtered (Y/N) Y ☐ N ☒		COF_257_101 COF_257_102 COF_257_103 COF_257_104 COF_257_105 COF_811_105 COF_WPCP_102 COF_WPCP_103 COF_WPCP_104 COF_WPCP_106		Residual Chlorine (Y/N) Y ☐ N ☐		Project No./ Lab I.D.	
ADDITIONAL COMMENTS COF-Q1-2023		RELINQUISHED BY / AFFILIATION <u>Wm. Voelker</u>		DATE <u>2/16/23</u>		TIME <u>18:17</u>	
ACCEPTED BY / AFFILIATION <u>[Signature]</u>		DATE <u>2/16/23</u>		TIME <u>8:30</u>		SAMPLE CONDITIONS Received on Ice (Y/N) <u>Y</u> Sealed Cooler (Y/N) <u>N</u> Samples Intact (Y/N) <u>Y</u>	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>AMBERY K. L. AP. DIE</u> SIGNATURE of SAMPLER: <u>[Signature]</u>		DATE Signed (MM/DD/YYYY): <u>2/16/23</u>		Temp in °C <u>3.8</u>		Temp in °C <u>3.8</u>	

SUBCONTRACT ORDER
Transfer Chain of Custody

1-28

Pace Analytical Services, LLC
GB03332

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical Services, LLC - Hazelwood
944 Anglum Road
Hazelwood, MO 63042
(314) 432-0550

Sample: GB03332-06
Name: G270

Sampled: 02/16/23 15:04
Matrix: Ground Water
Preservative: H2SO4, cool <6

Analysis	Due	Expires	Comments
Phenol	03/01/23 16:00	03/16/23 15:04	

Please email results to Gail Schindler at gail.schindler@pacelabs.com

Date Shipped: 3/17/23 ^{3/18/23} Total # of Containers: 1 Sample Origin (State): IL PO #:

Turn-Around Time Requested ☒ NORMAL ☐ RUSH Date Results Needed:

<u>CEMS 3/18/23</u> <u>3/18/23</u> <u>3/17/23 0948</u>	<u>3/24/23 10:24</u>	Sample Temperature Upon Receipt	<u>4.6°C</u>
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
		Sample(s) Received on Ice	<u>Y</u> or N
		Proper Bottles Received in Good Condition	<u>Y</u> or N
		Bottles Filled with Adequate Volume	<u>Y</u> or N
		Samples Received Within Hold Time	<u>Y</u> or N
		Date/Time Taken From Sample Bottle	<u>Y</u> or N

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COFFEEN 1Q23

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COFFEEN 1Q23

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information: Company: <u>Vistra Corp</u> Address: <u>13498 E. 900th St</u> Email To: <u>Brian.Voelker@VistraCorp.com</u> Phone: <u>(217) 753-8911</u> Fax: _____ Requested Due Date/TAT: <u>standard</u>		Section B Required Project Information: Report To: <u>Jason Voelker</u> Copy To: <u>Jason Stuckey</u> Purchase Order No: _____ Project Name: _____ Project Number: <u>2285</u>		Section C Invoice Information: Attention: <u>Jason Stuckey</u> Company Name: <u>Vistra Corp</u> Address: <u>see Section A</u> Quote Reference: _____ Project Manager: _____ Profile #: _____		Page: <u>4</u> of <u>6</u>			
Section D Required Client Information: Valid Matrix Codes MATRIX CODE GROUNDWATER GW WASTE WATER WW PRODUCT P SOLID SOLID S WASTE W AIR A OTHER OT TISSUE T				Required Analysis Filtered (Y/N)				REGULATORY AGENCY NFDES GROUND WATER DRINKING WATER UST RCRA OTHER	
SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE				Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₈ Methanol Other				Site Location STATE: <u>IL</u>	
MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP) COLLECTED DATE TIME SAMPLE TEMP AT COLLECTION # OF CONTAINERS Analysis Test ↑				DATE TIME ACCEPTED BY / AFFILIATION DATE TIME				Project No / Lab I.D. Residual Chlorine (Y/N)	
1	G280	GW	2/16/23	1118	2	COF_257_101			
2	G281	GW	2/16/23	1413	5	COF_257_102			
3	G301					COF_257_103			
4	G302					COF_257_104			
5	G303					COF_257_105			
6	G305					COF_257_106			
7	G306			1126	3				
8	G307								
9	G307D								
10	G308			1249	3				
11	G310			1348	3				
12	G312								
13	G313			1153	3				
14	G314			1057	3				
15	G314B-1A			1003	3				
16	G315								
ADDITIONAL COMMENTS COF-Q1-2023				RELINQUISHED BY / AFFILIATION <u>Quinn Moore</u>				SAMPLE CONDITIONS Received on (Y/N) <u>Y</u> Sealed Cooler (Y/N) <u>N</u> Temp in °C <u>38</u>	
SIGNATURE OF SAMPLER: <u>Quinn Moore</u>				DATE SIGNED (MM/DD/YY): <u>02/16/23</u>				SAMPLE NAME AND SIGNATURE PRINT Name of SAMPLER: <u>AMTR, CLAY, DE</u>	

VISTRA - COFFEEN
COFFEEN 1Q23

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Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	Vistra Corp	Report To	Brian Voelker	Attention	Jason Stuckey
Address	13498 E. 900th St	Copy To	Jason Stuckey	Company Name	Vistra Corp
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Address	see Section A
Phone	(217) 753-8911	Project Name		Quote Reference	
Requested Due Date/TAT:	standard	Project Number	2285	Project Manager	
				Profile #	

Valid Matrix Codes		COLLECTED		SAMPLE TEMP AT COLLECTION		PRESERVATIVES		Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)		Project No./ Lab I.D.			
ITEM #	Matrix Code	DATE	TIME	SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (See valid codes to left)	# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₈	Methanol	Other	
1	G316	2/16/23	1025	G	W	3									
2	G401														
3	G402														
4	G403														
5	G404														
6	G405														
7	G406														
8	G407														
9	G410														
10	G411														
11	G1001														
12	G1003														
13	L203														
14	NE Riser														
15	R104														
16	R201														
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
COF-Q1-2023		WMAJAN MPOON		2/16/23		1817		[Signature]		2/16/23		830		Temp in °C 3.8 Received on ice (Y/N) Y Custody Sealed Cooler (Y/N) N Samples Invol (Y/N) Y	
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		DATE Signed (MM/DD/YY):											
[Signature]		ANJER K. J. A. DE		2/16/23											
SIGNATURE of SAMPLER:		SIGNATURE of SAMPLER:													
[Signature]		[Signature]													

6803508

VISTRA - COFFEEN
COFFEEN 1Q23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information				Section B Required Project Information				Section C Invoice Information			
Company	Vistra Corp	Report To	Brian Voelker	Attention	Jason Stuckey	Company Name	Vistra Corp	Invoice #	6803508	Page	2 of 6
Address	13498 E. 900th St.	Copy To	Jason Stuckey	Address	see Section A	Address	see Section A				
Email To	Brian.Voelker@vistraCorp.com	Purchase Order No		Quality Reference		Project Manager					
Phone	(217) 753-8911	Project Name		Credentia							
Requested Due Date/TAT:	standard	Project Number	2285								
Valid Matrix Codes G200, G206, G207, G208, G209, G210, G211, G212 G215, G216, G217, G218, G219, G220, G221, G222, G223, G224, G225, G226, G227, G228, G229, G230, G231, G232, G233, G234, G235, G236, G237, G238, G239, G240, G241, G242, G243, G244, G245, G246, G247, G248, G249, G250, G251, G252, G253, G254, G255, G256, G257, G258, G259, G260, G261, G262, G263, G264, G265, G266, G267, G268, G269, G270, G271, G272, G273, G274, G275, G276, G277, G278, G279, G280, G281, G282, G283, G284, G285, G286, G287, G288, G289, G290, G291, G292, G293, G294, G295, G296, G297, G298, G299, G300, G301, G302, G303, G304, G305, G306, G307, G308, G309, G310, G311, G312, G313, G314, G315, G316, G317, G318, G319, G320, G321, G322, G323, G324, G325, G326, G327, G328, G329, G330, G331, G332, G333, G334, G335, G336, G337, G338, G339, G340, G341, G342, G343, G344, G345, G346, G347, G348, G349, G350, G351, G352, G353, G354, G355, G356, G357, G358, G359, G360, G361, G362, G363, G364, G365, G366, G367, G368, G369, 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G702, G703, G704, G705, G706, G707, G708, G709, G710, G711, G712, G713, G714, G715, G716, G717, G718, G719, G720, G721, G722, G723, G724, G725, G726, G727, G728, G729, G730, G731, G732, G733, G734, G735, G736, G737, G738, G739, G740, G741, G742, G743, G744, G745, G746, G747, G748, G749, G750, G751, G752, G753, G754, G755, G756, G757, G758, G759, G760, G761, G762, G763, G764, G765, G766, G767, G768, G769, G770, G771, G772, G773, G774, G775, G776, G777, G778, G779, G780, G781, G782, G783, G784, G785, G786, G787, G788, G789, G790, G791, G792, G793, G794, G795, G796, G797, G798, G799, G800, G801, G802, G803, G804, G805, G806, G807, G808, G809, G810, G811, G812, G813, G814, G815, G816, G817, G818, G819, G820, G821, G822, G823, G824, G825, G826, G827, G828, G829, G830, G831, G832, G833, G834, G835, G836, G837, G838, G839, G840, G841, G842, G843, G844, G845, G846, G847, G848, G849, G850, G851, G852, G853, G854, G855, G856, G857, G858, G859, G860, G861, G862, G863, G864, G865, G866, G867, G868, G869, G870, G871, G872, G873, G874, G875, G876, G877, G878, G879, G880, G881, G882, G883, G884, G885, G886, G887, G888, G889, G890, G891, G892, G893, G894, G895, G896, G897, G898, G899, G900, G901, G902, G903, G904, G905, G906, G907, G908, G909, G910, G911, G912, G913, G914, G915, G916, G917, G918, G919, G920, G921, G922, G923, G924, G925, G926, G927, G928, G929, G930, G931, G932, G933, G934, G935, G936, G937, G938, G939, G940, G941, G942, G943, G944, G945, G946, G947, G948, G949, G950, G951, G952, G953, G954, G955, G956, G957, G958, G959, G960, G961, G962, G963, G964, G965, G966, G967, G968, G969, G970, G971, G972, G973, G974, G975, G976, G977, G978, G979, G980, G981, G982, G983, G984, G985, G986, G987, G988, G989, G990, G991, G992, G993, G994, G995, G996, G997, G998, G999, G1000, G1001, G1002, G1003, G1004, G1005, G1006, G1007, G1008, G1009, G1010, G1011, G1012, G1013, G1014, G1015, G1016, G1017, G1018, G1019, G1020, G1021, G1022, G1023, G1024, G1025, G1026, G1027, G1028, G1029, G1030, G1031, G1032, G1033, G1034, G1035, G1036, G1037, G1038, G1039, G1040, G1041, G1042, G1043, G1044, G1045, G1046, G1047, G1048, G1049, G1050, G1051, G1052, G1053, G1054, G1055, G1056, G1057, G1058, G1059, G1060, G1061, G1062, G1063, G1064, G1065, G1066, G1067, G1068, G1069, G1070, G1071, G1072, G1073, G1074, G1075, G1076, G1077, G1078, G1079, G1080, G1081, G1082, G1083, G1084, G1085, G1086, G1087, G1088, G1089, G1090, G1091, G1092, G1093, G1094, G1095, G1096, G1097, G1098, G1099, G1100, G1101, G1102, G1103, G1104, G1105, G1106, G1107, G1108, G1109, G1110, G1111, G1112, G1113, G1114, G1115, G1116, G1117, G1118, G1119, G1120, G1121, G1122, G1123, G1124, G1125, G1126, G1127, G1128, G1129, G1130, G1131, G1132, G1133, G1134, G1135, G1136, G1137, G1138, G1139, G1140, G1141, G1142, G1143, G1144, G1145, G1146, G1147, G1148, G1149, G1150, G1151, G1152, G1153, G1154, G1155, G1156, G1157, G1158, G1159, G1160, G1161, G1162, G1163, G1164, G1165, G1166, G1167, G1168, G1169, G1170, G1171, G1172, G1173, G1174, G1175, G1176, G1177, G1178, G1179, G1180, G1181, G1182, G1183, G1184, G1185, G1186, G1187, G1188, G1189, G1190, G1191, G1192, G1193, G1194, G1195, G1196, G1197, G1198, G1199, G1200, G1201, G1202, G1203, G1204, G1205, G1206, G1207, G1208, G1209, G1210, G1211, G1212, G1213, G1214, G1215, G1216, G1217, G1218, G1219, G1220, G1221, G1222, G1223, G1224, G1225, G1226, G1227, G1228, G1229, G1230, G1231, G1232, G1233, G1234, G1235, G1236, G1237, G1238, G1239, G1240, G1241, G1242, G1243, G1244, G1245, G1246, G1247, G1248, G1249, G1250, G1251, G1252, G1253, G1254, G1255, G1256, G1257, G1258, G1259, G1260, G1261, G1262, G1263, G1264, G1265, G1266, G1267, G1268, G1269, G1270, G1271, G1272, G1273, G1274, G1275, G1276, G1277, G1278, G1279, G1280, G1281, G1282, G1283, G1284, G1285, G1286, G1287, G1288, G1289, G1290, G1291, G1292, G1293, G1294, G1295, G1296, G1297, G1298, G1299, G1300, G1301, G1302, G1303, G1304, G1305, G1306, G1307, G1308, G1309, G1310, G1311, G1312, G1313, G1314, G1315, G1316, G1317, G1318, G1319, G1320, G1321, G1322, G1323, G1324, G1325, G1326, G1327, G1328, G1329, G1330, G1331, G1332, G1333, G1334, G1335, G1336, G1337, G1338, G1339, G1340, G1341, G1342, G1343, G1344, G1345, G1346, G1347, G1348, G1349, G1350, G1351, G1352, G1353, G1354, G1355, G1356, G1357, G1358, G1359, G1360, G1361, G1362, G1363, G1364, G1365, G1366, G1367, G1368, G1369, G1370, G1371, G1372, G1373, G1374, G1375, G1376, G1377, G1378, G1379, G1380, G1381, G1382, G1383, G1384, G1385, G1386, G1387, G1388, G1389, G1390, G1391, G1392, G1393, G1394, G1395, G1396, G1397, G1398, G1399, G1400, G1401, G1402, G1403, G1404, G1405, G1406, G1407, G1408, G1409, G1410, G1411, G1412, G1413, G1414, G1415, G1416, G1417, G1418, G1419, G1420, G1421, G1422, G1423, G1424, G1425, G1426, G1427, G1428, G1429, G1430, G1431, G1432, G1433, G1434, G1435, G1436, G1437, G1438, G1439, G1440, G1441, G1442, G1443, G1444, G1445, G1446, G1447, G1448, G1449, G1450, G1451, G1452, G1453, G1454, G1455, G1456, G1457, G1458, G1459, G1460, G1461, G1462, G1463, G1464, G1465, G1466, G1467, G1468, G1469, G1470, G1471, G1472, G1473, G1474, G1475, G1476, G1477, G1478, G1479, G1480, G1481, G1482, G1483, G1484, G1485, G1486, G1487, G1488, G1489, G1490, G1491, G1492, G1493, G1494, G1495, G1496, G1497, G1498, G1499, G1500, G1501, G1502, G1503, G1504, G1505, G1506, G1507, G1508, G1509, G1510, G1511, G1512, G1513, G1514, G1515, G1516, G1517, G1518, G1519, G1520, G1521, G1522, G1523, G1524, G1525, G1526, G1527, G1528, G1529, G1530, G1531, G1532, G1533, G1534, G1535, G1536, G1537, G1538, G1539, G1540, G1541, G1542, G1543, G1544, G1545, G1546, G1547, G1548, G1549, G1550, G1551, G1552, G1553, G1554, G1555, G1556, G1557, G1558, G1559, G1560, G1561, G1562, G1563, G1564, G1565, G1566, G1567, G1568, G1569, G1570, G1571, G1572, G1573, G1574, G1575, G1576, G1577, G1578, G1579, G1580, G1581, G1582, G1583, G1584, G1585, G1586, G1587, G1588, G1589, G1590, G1591, G1592, G1593, G1594, G1595, G1596, G1597, G1598, G1599, G1600, G1601, G1602, G1603, G1604, G1605, G1606, G1607, G1608, G1609, G1610, G1611, G1612, G1613, G1614, G1615, G1616, G1617, G1618, G1619, G1620, G1621, G1622, G1623, G1624, G1625, G1626, G1627, G1628, G1629, G1630, G1631, G1632, G1633, G1634, G1635, G1636, G1637, G1638, G1639, G1640, G1641, G1642, G1643, G1644, G1645, G1646, G1647, G1648, G1649, G1650, G1651, G1652, G1653, G1654, G1655, G1656, G1657, G1658, G1659, G1660, G1661, G1662, G1663, G1664, G1665, G1666, G1667, G1668, G1669, G1670, G1671, G1672, G1673, G1674, G1675, G1676, G1677, G1678, G1679, G1680, G1681, G1682, G1683, G1684, G1685, G1686, G1687, G1688, G1689, G1690, G1691, G1692, G1693, G1694, G1695, G1696, G1697, G1698, G1699, G1700, G1701, G1702, G1703, G1704, G1705, G1706, G1707, G1708, G1709, G1710, G1711, G1712, G1713, G1714, G1715, G1716, G1717, G1718, G1719, G1720, G1721, G1722, G1723, G1724, G1725, G1726, G1727, G1728, G1729, G1730, G1731, G1732, G1733, G1734, G1735, G1736, G1737, G1738, G1739, G1740, G1741, G1742, G1743, G1744, G1745, G1746, G1747, G1748, G1749, G1750, G1751, G1752, G1753, G1754, G1755, G1756, G1757, G1758, G1759, G1760, G1761, G1762, G1763, G1764, G1765, G1766, G1767, G1768, G1769, G1770, G1771, G1772, G1773, G1774, G1775, G1776, G1777, G1778, G1779, G1780, G1781, G1782, G1783, G1784, G1785, G1786, G1787, G1788, G1789, G1790, G1791, G1792, G1793, G1794, G1795, G1796, G1797, G1798, G1799, G1800, G1801, G1802, G1803, G1804, G1805, G1806, G1807, G1808, G1809, G1810, G1811, G1812, G1813, G1814, G1815, G1816, G1817, G1818, G1819, G1820, G1821, G1822, G1823, G1824, G1825, G1826, G1827, G1828, G1829, G1830, G1831, G1832, G1833, G1834, G1835, G1836, G1837, G1838, G1839, G1840, G1841, G1842, G1843, G1844, G1845, G1846, G1847, G1848, G1849, G1850, G1851, G1852, G1853, G1854, G1855, G1856, G1857, G1858, G1859, G1860, G1861, G1862, G1863, G1864, G1865, G1866, G1867, G1868, G1869, G1870, G1871, G1872, G1873, G1874, G1875, G1876, G1877, G1878, G1879, G1880, G1881, G1882, G1883, G1884, G1885, G1886, G1887, G1888, G1889, G1890, G1891, G1892, G1893, G1894, G1895, G1896, G1897, G1898, G1899, G1900, G1901, G1902, G1903, G1904, G1905, G1906, G1907, G1908, G1909, G1910, G1911, G1912, G1913, G1914, G1915, G1916, G1917, G1918, G1919, G1920, G1921, G1922, G1923, G1924, G1925, G1926, G1927, G1928, G1929, G1930, G1931, G1932, G1933, G1934, G1935, G1936, G1937, G1938, G1939, G1940, G1941, G1942, G1943, G1944, G1945, G1946, G1947, G1948, G1949, G1950, G1951, G1952, G1953, G1954, G1955, G1956, G1957, G1958, G1959, G1960, G1961, G1962, G1963, G1964, G1965, G1966, G1967, G1968, G1969, G1970, G1971, G1972, G1973, G1974, G1975, G1976, G1977, G1978, G1979, G1980, G1981, G1982, G1983, G1984, G1985, G1986, G1987, G1988, G1989, G1990, G1991, G1992, G1993, G1994, G1995, G1996, G1997, G1998, G1999, G2000, G2001, G2002, G2003, G2004, G2005, G2006, G2007, G2008, G2009, G2010, G2011, G2012, G2013, G2014, G2015, G2016, G2017, G2018, G2019, G2020, G2021, G2022, G2023, G2024, G2025, G2026, G2027, G2028, G2029, G2030, G2031, G2032, G2033, G2034, G2035, G2036, G2037, G2038, G2039, G2040, G2041, G2042, G2043, G2044, G2045, G2046, G2047, G2048, G2049, G2050, G2051, G2052, G2053, G2054, G2055, G2056, G2057, G2058, G2059, G2060, G2061, G2062, G2063, G2064, G2065, G2066, G2067, G2068, G2069, G2070, G2071, G2072, G2073, G2074, G2075, G2076, G2077, G2078, G2079, G2080, G2081, G2082, G2083, G2084, G2085, G2086, G2087, G2088, G2089, G2090, G2091, G2092, G2093, G2094, G2095, G2096, G2097, G2098, G2099, G2100, G2101, G2102, G2103, G2104, G2105, G2106, G2107, G2108, G2109, G2110, G2111, G2112, G2113, G2114, G2115, G2116, G2117, G2118, G2119, G2120, G2121, G2122, G2123, G2124, G2125, G2126, G2127, G2128, G2129, G2130, G2131, G2132, G2133, G2134, G2135, G2136, G2137, G2138, G2139, G2140, G2141, G2142, G2143, G2144, G2145, G2146, G2147, G2148, G2149, G2150, G2151, G2152, G2153, G2154, G2155, G2156, G2157, G2158, G2159, G2160, G2161, G2162, G2163, G2164, G2165, G2166, G2167, G2168, G2169, G2170, G2171, G2172, G2173, G2174, G2175, G2176, G2177, G2178, G2179, G2180, G2181, G2182, G2183, G2184, G2185, G2186, G2187, G2188, G2189, G2190, G2191, G2192, G2193, G2194, G2195, G2196, G2197, G2198, G2199, G2200, G2201, G2202, G2203, G2204, G2205, G2206, G2207, G2208, G2209, G2210, G2211, G2212, G2213, G2214, G2215, G2216, G2217, G2218, G2219, G2220, G2221, G2222, G2223, G2224, G2225, G2226, G2227, G2228, G2229, G2230, G2231, G2232, G2233, G2234, G2235, G2236, G2237, G2238, G2239, G2240, G2241, G2242, G2243, G2244, G2245, G2246, G2247, G2248, G2249, G2250, G2251, G2252, G2253, G225											

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Section A Required Client Information: Company: <u>Vistra Corp</u> Address: <u>13498 E 900th St</u> Email To: <u>Brian Voelker@VistraCorp.com</u> Phone: <u>(217) 753-8911</u> Fax: _____ Requested Due Date/TAT: <u>standard</u>		Section B Required Project Information: Report To: <u>Brian Voelker</u> Copy To: <u>Jason Stuckey</u> Purchase Order No.: _____ Project Name: _____ Project Number: <u>2285</u>		Section C Invoice Information: Attention: <u>Jason Stuckey</u> Company Name: <u>Vistra Corp</u> Address: <u>see Section A</u> State: <u>IL</u>		Page: <u>5</u> of <u>6</u>					
Section D Required Chain Information: Valid Matrix Codes: G316 G401 G402 G403 G404 G405 G406 G407 G410 G411 G1001 G1003 L203 NE Riser R104 R201 SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE.		MATRIX CODE (See valid codes to left) G316 G401 G402 G403 G404 G405 G406 G407 G410 G411 G1001 G1003 L203 NE Riser R104 R201		SAMPLE TYPE (G=GRAB C=COMP) G G G G G G G G G G G G G G G		COLLECTED DATE TIME 2/15/23 11:55 2/15/23 10:45 2/15/23 13:02 2/15/23 14:13 2/15/23 11:05		SAMPLE TEMP AT COLLECTION # OF CONTAINERS PRESERVATIVES H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₈ Methanol Other Analysis Test Y/N COF_257_101 COF_257_102 COF_257_103 COF_257_104 COF_257_105 COF_811_105 COF_WPCP_102 COF_WPCP_103_104 COF_WPCP_106 Residual Chlorine (Y/N)		Project No./ Lab I.D.	
ADDITIONAL COMMENTS COF-Q1-2023		RELINQUISHED BY / AFFILIATION DATE TIME 2/16/23 7:00 2-16 1415		ACCEPTED BY / AFFILIATION DATE TIME 2-16 1123		SAMPLE CONDITIONS Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples intact (Y/N)					
SAMPPLER NAME AND SIGNATURE PRINT Name of SAMPPLER: SIGNATURE of SAMPPLER:		SAMPPLER NAME AND SIGNATURE PRINT Name of SAMPPLER: SIGNATURE of SAMPPLER:		DATE Signed (MM/DD/YYYY): 2/16/23		DATE Signed (MM/DD/YYYY): 2/16/23					

Coffeen

WELL/SAMPLE POINT **G281**

Purge Method: Bladder

Date: 2/16/23 Start Time: 13:45 Finish/Sample Time: 14:49

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1.0 Gal (L)

Depth to Water From MP: 4.64 ft Total Purge Volume: 1.5 Gal (L)

Total Drawdown: 0.05 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		(ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	14:04	4.69	100	7.18	1447	9.20	63.2	2.34	25.64
2	14:05	4.69	100	7.18	1453	9.29	62.4	2.31	21.74
3	14:06	4.69	100	7.17	1425	9.20	64.4	2.28	20.69
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 486944

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☐	☒
Good seal/drainage	☐	☒
Well has weep holes	☐	☒

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	In-Line Filters Used

Comments

Sampler's Signature: Gschindler for Austin Moore

Coffeen

WELL/SAMPLE POINT **G301**

Purge Method:

Bladder

Date: 2/15/23 Start Time: 1239 Finish/Sample Time: 1330

Well Depth (Bottom) From MP: pump ft

Min. Purge Volume: 1.5 Gal/L

Depth to Water From MP: 5.53 ft

Total Purge Volume: 1.8 Gal/L

End DTW 6.22

Total Drawdown: 0.69 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1255	6.20	100	7.19	1336	12.75	149.3	3.65	4.51
2	1256	6.20	100	7.11	1338	12.66	150.1	3.61	4.11
3	1254	6.20	100	7.05	1339	12.60	151.3	3.57	3.96
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
Casing locked/secure	☒	
Well cap fits securely.	☒	
Good seal/drainage	☒	
Well has weep holes		☒

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) <u>500mL</u>
1	<u>2.5L HCl</u>

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments

Sampler's Signature:

Joseph R Reed

Coffeen

WELL/SAMPLE POINT **G302**

Purge Method: Bladder

Date: 2/15/23 Start Time: 1139 Finish/Sample Time: 1230

Well Depth (Bottom) From MP: pump ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 7.54 ft Total Purge Volume: 1.8 Gal / L

End DTW = 7.69

Total Drawdown: 0.15 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		(ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	1153	7.69	100	6.81	1631	12.78	69.3	3.14	18.51
2	1154	7.69	100	6.78	1635	12.71	65.1	2.99	19.44
3	1155	7.69	100	6.75	1637	12.70	64.4	2.95	20.20
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

AT 600

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☐	☒

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	2.5L HCl

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments

Sampler's Signature:

Joseph R Reed

Coffeen

WELL/SAMPLE POINT **G303**

Purge Method: Bladder

Date: 2/15/23 Start Time: 1501 Finish/Sample Time: 1552

Well Depth (Bottom) From MP: pump ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 4.42 ft Total Purge Volume: 1.8 Gal / L

End DTW 530

Total Drawdown: 0.88 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1516	5.31	100	6.67	1816	13.08	93.1	2.02	1.92
2	1517	5.30	100	6.59	1819	13.06	91.2	1.91	1.54
3	1518	5.31	100	6.54	1827	12.99	89.7	1.85	1.48
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 500 mL
1	2.5L HCl

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments

Sampler's Signature:

Joseph R. Reed

Coffeen

WELL/SAMPLE POINT **G305**

Purge Method: Bladder

Date: 2/15/23 Start Time: 1400 Finish/Sample Time: 1452

Well Depth (Bottom) From MP: Pump ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 6.24 ft Total Purge Volume: 1.8 Gal / L

End DWT 6.26

Total Drawdown: 0.02 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		(ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	1415	6.26	100	7.52	1642	14.69	44.8	2.20	38.8
2	1416	6.26	100	7.42	1658	14.65	59.1	2.06	34.0
3	1417	6.26	100	7.35	1661	14.60	57.9	1.95	29.4
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☒ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
Casing locked/secure	☒	
Well cap fits securely.	☒	
Good seal/drainage	☒	
Well has weep holes	☒	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) <u>500mL</u>
1	<u>2.5 L HCL</u>

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments

Sampler's Signature: Joseph R Reed

Coffeen

WELL/SAMPLE POINT **G306**

Purge Method: **Bladder pump**

Date: **2/16/23** Start Time: **10:38** Finish/Sample Time: **11:26**

Well Depth (Bottom) From MP: **18.44** ft Min. Purge Volume: **1.0** Gal **0**

Depth to Water From MP: **5.71** ft Total Purge Volume: **1.5** Gal **0**

Total Drawdown: **1.04** ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	10:53	6.63	100	7.00	936.11	16.84	67.8	6.27	366.81
2	10:54	6.63	100	6.99	940.78	10.87	68.7	6.25	337.33
3	10:55	6.63	100	6.98	937.31	10.83	69.6	6.22	315.92
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: **AT 486944**

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☒ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	P, 2.5L, HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments

Sampler's Signature: 

Coffeen

WELL/SAMPLE POINT **G307**

Purge Method:

blaise

Date: 2/15/2023 Start Time: 1430 Finish/Sample Time: 1524

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 0.00 ft Total Purge Volume: 1000 Gal / L (2)

Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1447	0.00	100	7.12	1570	13.85	352	1.31	385
2	1449	0.00	100	7.13	1530	13.90	359	1.29	394
3	1451	0.00	100	7.15	1560	13.97	350	1.37	418
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

Well Integrity	Yes	No
Well has ID sign	✓	✗
Casing locked/secure		✗
Well cap fits securely.		✗
Good seal/drainage		✗
Well has weep holes		✗

BOTTLE INFORMATION:

Qty	Unfiltered Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	(P, 250 mL, HNO3)

(3)

Qty	Filtered Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW 0.00

Comments

Artesian

Sampler's Signature:



Coffeen

WELL/SAMPLE POINT **G307D**

Purge Method: bladder

Date: 2/15/2023 Start Time: 1526 Finish/Sample Time: 1625

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 2.70 ft Total Purge Volume: 1000 Gal / L (1000)

Total Drawdown: 5.94 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1540	4.26	100	7.23	1540	14.45	11	2.02	11.2
2	1542	4.33	100	7.22	1530	14.39	-9	1.93	21.7
3	1544	4.50	100	7.21	1530	14.31	-28	1.92	30.0
4	1546	4.58	100	7.19	1510	14.37	-37	1.84	36.8
5	1548	4.66	100	7.21	1500	14.40	-43	1.78	43.3
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Qty	Unfiltered Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) <u>500mL</u>
1	<u>(P, 250 mL, HNO3)</u>

Qty	Filtered Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Drawn DTW 8.64

Comments

Sampler's Signature: [Signature]

Coffeen

WELL/SAMPLE POINT **G308**

Purge Method: bladder

Date: 2/16/2023 Start Time: 1158 Finish/Sample Time: 1249

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 3.45 ft Total Purge Volume: 1000 Gal / L (mL)

Total Drawdown: 0-30 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		(ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	1212	3.64	100	7.22	2020	9.42	279	2.23	0.0
2	1214	3.64	100	7.21	2010	9.49	279	2.16	0.0
3	1216	3.66	100	7.21	2000	9.46	278	2.08	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Qty	Unfiltered
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	(P, 250 mL, HNO3)

(3)

Qty	Filtered
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW 3.75

Comments

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT G310

Purge Method: blast

Date: 2/16/2023 Start Time: 1254 Finish/Sample Time: 1348

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 6.95 ft Total Purge Volume: 1000 Gal / L (M2)

Total Drawdown: 0.06 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1309	7.01	100	7.17	1480	9.91	306	2.17	0.0
2	1311	7.01	100	7.17	1480	9.95	305	1.99	0.0
3	1313	7.01	100	7.16	1460	9.92	303	1.98	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Qty	Bottles
	Unfiltered
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 500mL
1	(P, 2.5L, HNO3)

(3)

Qty	Bottles
	Filtered
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW 7.01

Comments

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT **G312**

Purge Method: _____

Date: 2/15/2023 Start Time: 1421 Finish/Sample Time: 1423

Well Depth (Bottom) From MP: ft Min. Purge Volume: Gal / L

Depth to Water From MP: ft Total Purge Volume: Gal / L

Total Drawdown: ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
Casing locked/secure	☒	
Well cap fits securely.	☒	
Good seal/drainage	☒	
Well has weep holes	☒	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
0	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
0	General (P, 250 mL)
0	(P, 250 mL HNO3)

0

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments: casing sunk into soil & thus unable to open casing to sample

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT **G313**

Purge Method: blaster

Date: 2/16/2023 Start Time: 1100 Finish/Sample Time: 1153

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 3.12 ft Total Purge Volume: 1000 Gal / L (mg)

Total Drawdown: 0.23 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		(ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	1114	3.35	100	6.88	1880	9.82	237	1.79	1.4
2	1116	3.35	100	6.88	1890	9.86	237	1.67	0.0
3	1118	3.35	100	6.88	1890	9.78	236	1.62	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
Casing locked/secure	☒	
Well cap fits securely.	☒	
Good seal/drainage	☒	
Well has weep holes	☒	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	CP, 2.5L, HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments

Final DZW 3.35FL

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT G314

Purge Method: bladder

Date: 2/16/2023 Start Time: 0910 Finish/Sample Time: 1003

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 6.09 ft Total Purge Volume: 500 Gal / L (mL)

Total Drawdown: 4.91 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		(ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	0925	6.97	100	6.52	3750	9.53	157	1.73	181
2	0927	7.16	100	6.51	3730	9.53	142	1.65	171
3	0929	7.34	100	6.51	3710	9.59	138	1.55	173
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 500 mL
1	(P, 250 mL, HNO3)

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTL 11.00 FL

Comments only 500 ml purge due to history of poor recharge

Sampler's Signature: _____

Coffee

WELL/SAMPLE POINT **G314D**

Purge Method: blasse

Date: 2/16/2023 Start Time: 1004 Finish/Sample Time: 1057

Well Depth (Bottom) From MP: _____ ft

Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 16.36 ft

Total Purge Volume: 500 ¹⁰⁰⁰ Gal / L (mL)

App 2/16/23

Total Drawdown: 6.08 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		(ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	1020	17.89	100	6.91	2530	10.48	185	2.01	24.4
2	1022	18.04	100	6.92	2530	10.50	181	2.00	28.2
3	1024	18.20	100	6.92	2530	10.65	175	2.04	35.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) <u>500 mL</u>
1	<u>(P, 2.5L, HNO3)</u>

③

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW 22.44 AL

Comments

Sampler's Signature: [Signature]

Coffeen

WELL/SAMPLE POINT **G315**

Purge Method:

Bladder

Date: 2/15/23

Start Time: 1027

Finish/Sample Time: 1119

Well Depth (Bottom) From MP: pump ft

Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 2.11 ft

Total Purge Volume: 1.8 Gal / L

End DTW 2.30

Total Drawdown: 0.19 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1043	2.29	100	7.12	1581	11.43	187.2	0.90	4.18
2	1044	2.29	100	7.09	1580	11.43	183.6	0.80	2.90
3	1045	2.29	100	7.00	1580	11.41	181.9	0.75	2.36
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
Casing locked/secure	☒	
Well cap fits securely.	☒	
Good seal/drainage	☒	
Well has weep holes	☒	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) <u>500mL</u>
1	<u>2.5 L HCl</u>

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments

Sampler's Signature:

Joseph R. Rest

Coffeen

WELL/SAMPLE POINT **G316**

Purge Method: **Bladder pump**

Date: **2/16/23** Start Time: **9:13** Finish/Sample Time: **10:25**

Well Depth (Bottom) From MP: **14.12** ft Min. Purge Volume: **1.0** Gal **0**

Depth to Water From MP: **11.10** ft Total Purge Volume: **1.5** Gal **0**

Total Drawdown: **0.32** ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	9:40	11.52	100	7.05	2341.4	9.24	-75.5	0.83	64.16
2	9:41	11.52	100	7.05	2363.2	9.38	-77.2	0.69	53.88
3	9:42	11.52	100	7.04	2353.7	9.56	-78.2	0.60	49.58
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

AT 48 6944

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL)
	500
1	P, 250, HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments

Sampler's Signature: **NW**

Coffeen

WELL/SAMPLE POINT **XPW01**

Purge Method: Bladder

Date: 2/13/23 Start Time: 1624 Finish/Sample Time: 1650

Well Depth (Bottom) From MP: 8.00 ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 4.52 ft Total Purge Volume: 1.8 Gal / L

End DTW 4.52

Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1639	4.52	100	7.85	1419	13.60	-16.4	1.66	0.82
2	1640	4.52	100	7.84	1416	13.57	-30.1	1.51	0.81
3	1641	4.52	100	7.81	1415	13.55	-35.0	1.49	0.85
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

AT400

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
Casing locked/secure	☒	
Well cap fits securely.	☒	
Good seal/drainage	☒	
Well has weep holes	☒	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments

Sampler's Signature:

Joseph R Reed

Coffeen

WELL/SAMPLE POINT **XPW02**

Purge Method: Bladder

Date: 2/15/23 Start Time: 1557 Finish/Sample Time: 1621

Well Depth (Bottom) From MP: pump ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 9.38 ft Total Purge Volume: 1.8 Gal / L

End BW 9.40

Total Drawdown: 0.02 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1612	9.40	100	8.06	1191	15.47	-83.7	2.97	0.82
2	1613	9.40	100	7.93	1189	15.30	-99.1	2.90	0.80
3	1614	9.40	100	7.85	1184	15.26	-108.5	2.88	0.76
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign		☒
Casing locked/secure		☒
Well cap fits securely.	☒	
Good seal/drainage	☒	
Well has weep holes	☒	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) <u>500mL</u>

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Comments

Sampler's Signature: Joseph R Rad

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Austin Moore</u>				Location: <u>Coffeen</u>			
Weather: <u>69°-37° cloudy/rain wind SE 13 mph</u>				Environment: <u>Rain, mud, grass</u>			
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>U-5000</u>	Serial Number: <u>PW26Y7D3</u>			
Water Level Meter		Make: <u>WT</u>	Model: <u>Herron</u>	Serial Number: <u>11FF2209309ML</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.92</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.03</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2010</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Geotech	2GE1442	May-23
ORP	<u>239</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>N/A</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.08</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>0.08</u>	%	97-100%	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>0829</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.97</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC243	Mar-24	
pH 7.00b	<u>7.04</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>10.04</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE820	May-24	
SC 1000	<u>983</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>0952</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.03</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.03</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1023</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.07</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u> </u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>Austin Moore</u>	Date: <u>14-Feb-23</u>
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Multiparameter Meter Field Calibration Checklist									
Field Personnel: Joe Reed				Location: Coffeen Power Plant					
Weather: Rain 47-53°F wind 10-20 mph				Environment: Wet swampy					
Multiparameter Water Meter		Make: Quantro	Model: 60e	Serial Number: 762193					
Water Level Meter		Make: Solinst	Model: 101	Serial Number: 336216					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.02	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	0.5	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2019	µS/cm	±5%	P	N		Geotech	2GE1442	May-23
ORP	243 @ 10 mV	mV	±15 mV	P	N		InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	98.7	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.1	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: 9:15				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24	
pH 7.00b	6.99	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24	
pH 10.00b	10.01	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24	
SC 1000	1019	µS/cm	±5%	P	N	Ricca	4205H64	May-24	
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: 1637				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	N		MSI	L315-04	11/22/2023
pH 7.00a	7.02	s.u.	±0.1 s.u.	P	N		MSI	L172-33	6/23/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.	P	N		MSI	L354-22	1/5/2024
SC 1000	1010	µS/cm	±5%	P	N		Ricca	2108D48	Jul-23
DO (Zero pt)	0.05	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature: Joseph R Reed				Date: 2/14/2023					

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Kyle Lane</u>				Location: <u>Coffeen Power</u>			
Weather: <u>48° Rainy Wind</u>				Environment: <u>Wet, muddy</u>			
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>V-5000</u>	Serial Number: <u>V4V1E-V4F</u>			
Water Level Meter		Make: <u>Heron</u>	Model: <u>Water tape</u>	Serial Number: <u>19FF211192HB</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>23.12</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>Na</u>	<u>Na</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2.025</u>	µS/cm	±5%	<u>P</u>	<u>Na</u>	<u>Na</u>	Geotech	2GE1442	May-23
ORP	<u>2.36</u>	mV	±15 mV	<u>P</u>	<u>Na</u>	<u>Na</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.02</u>	mg/L	±0.1	<u>P</u>	<u>Na</u>	<u>Na</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.46</u>	%	97-100%	<u>P</u>	<u>Na</u>	<u>Na</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>1.31</u>	NTU	<2 NTU	<u>P</u>	<u>Na</u>	<u>Na</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)				Time: <u>10:21</u>	
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Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>3.99</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>Na</u>	Geotech	2GC243	Mar-24
pH 7.00b	<u>6.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>Na</u>	Geotech	2GC931	Mar-24
pH 10.00b	<u>9.91</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>Na</u>	Geotech	2GE820	May-24
SC 1000	<u>1.048</u>	µS/cm	±5%	<u>P</u>	<u>Na</u>	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):				Time: <u>X</u>	
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>X</u>	s.u.	±0.1 s.u.	<u>X</u>	<u>X</u>	<u>X</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>X</u>	s.u.	±0.1 s.u.	<u>X</u>	<u>X</u>	<u>X</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>X</u>	s.u.	±0.1 s.u.	<u>X</u>	<u>X</u>	<u>X</u>	MSI	L354-22	1/5/2024
SC 1000	<u>X</u>	µS/cm	±5%	<u>X</u>	<u>X</u>	<u>X</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>X</u>	mg/L	±0.1 mg/L	<u>X</u>	<u>X</u>	<u>X</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>X</u>	NTU	<2 NTU	<u>X</u>	<u>X</u>	<u>X</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):				Time: <u>16:41</u>	
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<u>4.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	L315-04	11/22/2023
7.00a	<u>7.05</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	L172-33	6/23/2023
10.00a	<u>10.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1040</u>	µS/cm	±5%	<u>P</u>	<u>Na</u>	<u>Na</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>Na</u>	<u>Na</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.48</u>	NTU	<2 NTU	<u>P</u>	<u>Na</u>	<u>Na</u>	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Na

Signature: <u>[Signature]</u>	Date: <u>2-14-23</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Rembertson</i>				Location: <i>Coffeen</i>			
Weather: <i>H60-Sun, elev 5700 ft, Wind SE 10 mph</i>				Environment: <i>open, gravel, mud</i>			
Multiparameter Water Meter		Make: <i>Hanna</i>	Model: <i>U-5000</i>	Serial Number: <i>YL9K59HA</i>			
Water Level Meter		Make: <i>Heron</i>	Model: <i>DipNet</i>	Serial Number: <i>3717-7</i>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>5.98</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N/A</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N/A</i>	<i>N/A</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N/A</i>	<i>N/A</i>	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>101.0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>N/A</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2060</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>	<i>N/A</i>	Geotech	2GE1442	May-23
ORP	<i>248</i>	mV	±15 mV	<i>P</i>	<i>N/A</i>	<i>N/A</i>	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	<i>P</i>	<i>N/A</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.9</i>	%	97-100%	<i>P</i>	<i>N/A</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>N/A</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

242 @ 15°C

ICV (Initial Calibration Verification)					Time: <i>9:00</i>	
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer
pH 4.00b	<i>4.02</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech
pH 7.00b	<i>6.87</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech
pH 10.00b	<i>10.01</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech
SC 1000	<i>1020</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>	Ricca

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1700</i>	
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
pH 4.00a	<i>4.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N/A</i>	<i>N/A</i>
pH 7.00a	<i>7.04</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N/A</i>	<i>N/A</i>
pH 10.00a	<i>10.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N/A</i>	<i>N/A</i>
SC 1000	<i>1020</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>	<i>N/A</i>
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>N/A</i>	<i>N/A</i>
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>N/A</i>	<i>N/A</i>

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4.00a		s.u.	±0.1 s.u.			
7.00a		s.u.	±0.1 s.u.			
10.00a		s.u.	±0.1 s.u.			
SC 1000		µS/cm	±5%			
DO (Zero pt)		mg/L	±0.1 mg/L			
Turbidity (DI)		NTU	<2 NTU			

Comments:

Signature: <i>[Signature]</i>	Date: <i>2/14/2023</i>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Kyle Lane</u>				Location: <u>COFFEEN</u>			
Weather: <u>45° sunny</u>				Environment: <u>Wet muddy</u>			
Multiparameter Water Meter		Make: <u>Hanna</u>	Model: <u>V-5000</u>	Serial Number: <u>VHVIFV4F</u>			
Water Level Meter		Make: <u>Hanna</u>	Model: <u>Water + WFL</u>	Serial Number: <u>19 FF211192 HB</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.36</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.09</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>22.14</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>Na</u>	<u>Na</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>22.20</u>	µS/cm	±5%	<u>P</u>	<u>Na</u>	<u>Na</u>	Geotech	2GE1442	May-23
ORP	<u>234</u>	mV	±15 mV	<u>P</u>	<u>Na</u>	<u>Na</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.04</u>	mg/L	±0.1	<u>P</u>	<u>Na</u>	<u>Na</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.56</u>	%	97-100%	<u>P</u>	<u>Na</u>	<u>Na</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>1.20</u>	NTU	<2 NTU	<u>P</u>	<u>Na</u>	<u>Na</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>08:40</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.31</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>Na</u>	Geotech	2GC243	Mar-24	
pH 7.00b	<u>6.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>Na</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>9.99</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>Na</u>	Geotech	2GE820	May-24	
SC 1000	<u>10.40</u>	µS/cm	±5%	<u>P</u>	<u>Na</u>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>X</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>X</u>	s.u.	±0.1 s.u.	<u>X</u>	<u>X</u>	<u>X</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>X</u>	s.u.	±0.1 s.u.	<u>X</u>	<u>X</u>	<u>X</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>X</u>	s.u.	±0.1 s.u.	<u>X</u>	<u>X</u>	<u>X</u>	MSI	L354-22	1/5/2024
SC 1000	<u>X</u>	µS/cm	±5%	<u>X</u>	<u>X</u>	<u>X</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>X</u>	mg/L	±0.1 mg/L	<u>X</u>	<u>X</u>	<u>X</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>X</u>	NTU	<2 NTU	<u>X</u>	<u>X</u>	<u>X</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>17:20</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<u>4.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	L315-04	11/22/2023
7.00a	<u>7.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	L172-33	6/23/2023
10.00a	<u>10.09</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	L354-22	1/5/2024
SC 1000	<u>12.28</u>	µS/cm	±5%	<u>P</u>	<u>Na</u>	<u>Na</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.01</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>Na</u>	<u>Na</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.41</u>	NTU	<2 NTU	<u>P</u>	<u>Na</u>	<u>Na</u>	Pace Labs	N/A (DI)	N/A (DI)

Comments: Na

Signature: <u>[Signature]</u>	Date: <u>2-15-23</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Austin Moore</u>				Location: <u>Coffeen</u>			
Weather: <u>65-43 sunny wind wsw 13 mph</u>				Environment: <u>muddy, g.cas</u>			
Multiparameter Water Meter		Make: <u>Hanaka</u>	Model: <u>V-9000</u>	Serial Number: <u>PW26YT03</u>			
Water Level Meter		Make: <u>WT</u>	Model: <u>Herron</u>	Serial Number: <u>11FF2209305 ML</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.91</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.97</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>I</u>	<u>I</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.00</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>0</u>	µS/cm	0<25 µS/cm	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2090</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Geotech	2GE1442	May-23
ORP	<u>253</u>	mV	±15 mV	<u>I</u>	<u>I</u>	<u>I</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.08</u>	mg/L	±0.1	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>0.0</u>	%	97-100%	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>1849</u>	
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer
pH 4.00b	<u>3.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>I</u>	Geotech
pH 7.00b	<u>7.03</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech
pH 10.00b	<u>10.06</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech
SC 1000	<u>1029</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	Ricca

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1910</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
pH 7.00a	<u>7.04</u>	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	<u>10.03</u>	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	<u>1020</u>	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.07</u>	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>Austin Moore</u>	Date: <u>15-Feb-23</u>
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Multiparameter Meter Field Calibration Checklist									
Field Personnel: David Escamilla				Location: Coffeen Power Plant					
Weather: 46-54°, Sunny, 13mph WSW				Environment: Gravel Roads					
Multiparameter Water Meter		Make:		Model:		Serial Number: 486944			
Water Level Meter		Make:		Model:		Serial Number: 19FF2111015HB			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.95	s.u.	±0.1 s.u.	P	N	N/A	MSI	L343-07	12/9/2023
pH 10.00a	10.09	s.u.	±0.1 s.u.	P	N	N/A	MSI	M082-04	3/25/2024
SC Zero (DI)	24.31	µS/cm	0<25 µS/cm	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2028.7	µS/cm	±5%	P	N	N/A	Geotech	2GE1442	May-23
ORP (DI)	140	mV	±15 mV	P	N	N/A	In Situ	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1	P	N	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	94.53	%	97-100%	P	N	100.00	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.55	NTU	<2 NTU	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: 8:46				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	3.90	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24	
pH 7.00b	6.87	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC931	Mar-24	
pH 10.00b	9.91	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24	
SC 1000	1032.2	µS/cm	±5%	P	N/A	Ricca	4205H64	May-24	
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: 14:50				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	P	N	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.09	s.u.	±0.1 s.u.	P	N	N/A	MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.	P	N	N/A	MSI	L354-22	1/5/2024
SC 1000	1016.53	µS/cm	±5%	P	N	N/A	Ricca	2108D48	Jul-23
DO (Zero pt)	0.10	mg/L	±0.1 mg/L	P	N	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	0.21	NTU	<2 NTU	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.10	s.u.	±0.1 s.u.	P	N	N/A	MSI	L315-04	11/22/2023
7.00a	7.09	s.u.	±0.1 s.u.	P	N	N/A	MSI	L172-33	6/23/2023
10.00a	10.04	s.u.	±0.1 s.u.	P	N	N/A	MSI	L354-22	1/5/2024
SC 1000	1021.61	µS/cm	±5%	P	N	N/A	Ricca	2108D48	Jul-23
DO (Zero pt)	0.07	mg/L	±0.1 mg/L	P	N	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	0.09	NTU	<2 NTU	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature: 					Date: 2/15/23				

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Aaron Pemberton</u>				Location: <u>COFFEEN</u>			
Weather: <u>46°-50° Sunny</u> <u>wind SW 12 mph</u>				Environment: <u>grass, mud, gravel</u>			
Multiparameter Water Meter		Make: <u>HANNA</u>	Model: <u>V-5000</u>	Serial Number: <u>YLA9591HA</u>			
Water Level Meter		Make: <u>HANNA</u>	Model: <u>DIPPER</u>	Serial Number: <u>3717-7</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.92</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>9.95</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>17.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1480</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Geotech	2GE1442	May-23
ORP	<u>230</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>N/A</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>0.09</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

242 @ 1500

ICV (Initial Calibration Verification)					Time: <u>0900</u>	
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer
pH 4.00b	<u>4.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech
pH 7.00b	<u>6.97</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech
pH 10.00b	<u>9.97</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech
SC 1000	<u>1030</u>	µS/cm	±5%	<u>P</u>	<u>N/A</u>	Ricca

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1630</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>6.94</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>9.95</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	L354-22	1/5/2024
SC 1000	<u>977</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.08</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>[Signature]</u>	Date: <u>2/15/2023</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Austin Moore</u>				Location: <u>Coffeen</u>					
Weather: <u>43°-28° cloudy, wind NE 6 mph</u>				Environment: <u>mud, grass</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>V-5000</u>	Serial Number: <u>PW26YJ03</u>					
Water Level Meter		Make: <u>WT</u>	Model: <u>Heron</u>	Serial Number: <u>11FF2209305ML</u>					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.91</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.96</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>9.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2010</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Geotech	2GE1442	May-23
ORP	<u>234</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>N/A</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.08</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>0.08</u>	%	97-100%	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>0835</u>				
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Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>3.96</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC243	Mar-24
pH 7.00b	<u>7.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC931	Mar-24
pH 10.00b	<u>10.03</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE820	May-24
SC 1000	<u>990</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u> </u>				
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.09</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1030</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.06</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u> </u>				
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>Austin Moore</u>		Date: <u>16-Feb-23</u>	
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Multiparameter Meter Field Calibration Checklist									
Field Personnel: <u>Kyle Lane</u>					Location: <u>Coffeen</u>				
Weather: <u>36° Cold Cloudy</u>					Environment: <u>Wet Muddy</u>				
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>V-5000</u>	Serial Number: <u>V4V1FV4F</u>					
Water Level Meter		Make: <u>Horon</u>	Model: <u>Water + APC</u>	Serial Number: <u>19FF211192H8</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.09</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>24.9</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>202.6</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	<u>NA</u>	Geotech	2GE1442	May-23
ORP	<u>268</u>	mV	±15 mV	<u>P</u>	<u>NA</u>	<u>NA</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.03</u>	mg/L	±0.1	<u>P</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.40</u>	%	97-100%	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>1.04</u>	NTU	<2 NTU	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: <u>09:04</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.13</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GC243	Mar-24	
pH 7.00b	<u>7.03</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>10.95</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GE820	May-24	
SC 1000	<u>1041</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	Ricca	4205H64	May-24	
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: <u>X</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>X</u>	s.u.	±0.1 s.u.	<u>X</u>	<u>X</u>	<u>X</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>X</u>	s.u.	±0.1 s.u.	<u>X</u>	<u>X</u>	<u>X</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>X</u>	s.u.	±0.1 s.u.	<u>X</u>	<u>X</u>	<u>X</u>	MSI	L354-22	1/5/2024
SC 1000	<u>X</u>	µS/cm	±5%	<u>X</u>	<u>X</u>	<u>X</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>X</u>	mg/L	±0.1 mg/L	<u>X</u>	<u>X</u>	<u>X</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>X</u>	NTU	<2 NTU	<u>X</u>	<u>X</u>	<u>X</u>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: <u>15:25</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L315-04	11/22/2023
7.00a	<u>7.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L172-33	6/23/2023
10.00a	<u>9.94</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1011</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	<u>NA</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.06</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.28</u>	NTU	<2 NTU	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
Comments: <u>Na</u>									
Signature: <u>[Signature]</u>					Date: <u>2-16-23</u>				

Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Amron Pambolan</i>				Location: <i>Coffeen</i>			
Weather: <i>37°-43°L cloudy wind NE 6mph</i>				Environment: <i>grass, mud, ground</i>			
Multiparameter Water Meter		Make: <i>Hanna</i>	Model: <i>V-5000</i>	Serial Number: <i>PL9K59HA</i>			
Water Level Meter		Make: <i>Heron</i>	Model: <i>D-100T</i>	Serial Number: <i>3217-T</i>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>6.91</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>9.97</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>20.0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1950</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	<i>N/A</i>	Geotech	2GE1442	May-23
ORP	<i>251</i>	mV	±15 mV	<i>P</i>	<i>N</i>	<i>N/A</i>	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.08</i>	mg/L	±0.1	<i>P</i>	<i>N</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>0.2</i>	%	97-100%	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

24h @ 10°C

ICV (Initial Calibration Verification)					Time: <i>0840</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.02</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GC243	Mar-24
pH 7.00b	<i>6.85</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GC931	Mar-24
pH 10.00b	<i>9.92</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GE820	May-24
SC 1000	<i>1950</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1522</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L172-33	6/23/2023
pH 10.00a	<i>10.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L354-22	1/5/2024
SC 1000	<i>1010</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	<i>N/A</i>	Ricca	2108D48	Jul-23
DO (Zero pt)	<i>0.08</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>N</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <i>[Signature]</i>	Date: <i>2/16/2023</i>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: David Escanilla		Location: Coffeen Power plant	
Weather: 37-43°, Cloudy, 6 mph NE		Environment: Gravel Road	
Multiparameter Water Meter	Make:	Model:	Serial Number: AT 486944
Water Level Meter	Make:	Model:	Serial Number: 19FF2111015HB

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.88	s.u.	±0.1 s.u.	F	Y	4.00	MSI	L344-09	12/14/2023
pH 7.00a	6.95	s.u.	±0.1 s.u.	F	Y	7.00	MSI	L343-07	12/9/2023
pH 10.00a	10.12	s.u.	±0.1 s.u.	F	Y	10.00	MSI	M082-04	3/25/2024
SC Zero (DI)	20.56	µS/cm	0-25 µS/cm	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	202.4	µS/cm	±5%	P	N	N/A	Geotech	2GE1442	May-23
ORP (10°)	255.6	mV	±15 mV	P	N	N/A	InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1	P	N	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	106.05	%	97-100%	F	Y	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.30	NTU	<2 NTU	P	N	100.00	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)

					Time: 8:54			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.02	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24
pH 7.00b	7.04	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC931	Mar-24
pH 10.00b	10.03	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24
SC 1000	1016.8	µS/cm	±5%	P	N/A	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

					Time: 15:18				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	±0.1 s.u.	P	N	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.06	s.u.	±0.1 s.u.	P	N	N/A	MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.	P	N	N/A	MSI	L354-22	1/5/2024
SC 1000	1006.2	µS/cm	±5%	P	N	N/A	Ricca	2108D48	Jul-23
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P	N	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	0.87	NTU	<2 NTU	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Signature:

[Signature]

Date:

2/16/23



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

July 24, 2023

Brian Voelker
Vistra - Coffeen
1500 Eastport Plaza Drive
Collinsville, IL 62234

Dear Brian Voelker:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Sincerely,

A handwritten signature in cursive script that reads 'Gail Schindler'.

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com



SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GF00140

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GF00245

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GF00908

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GF01285

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided



Work Order GF01654

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided



ANALYTICAL RESULTS

Sample: GF00140-12
Name: G302
Matrix: Ground Water - Grab

Sampled: 05/31/23 16:00
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	18	mg/L		06/02/23 20:29	10	10	06/02/23 20:29	LAM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/01/23 19:25	1	0.250	06/01/23 19:25	CRD	EPA 300.0 REV 2.1
Sulfate	450	mg/L		06/01/23 20:02	100	100	06/01/23 20:02	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	11.18	Feet		05/31/23 16:00	1		05/31/23 16:00	FIELD	Field*
Dissolved oxygen, Field	2.6	mg/L		05/31/23 16:00	1		05/31/23 16:00	FIELD	Field*
Oxidation Reduction Potential	-79.9	mV		05/31/23 16:00	1	-500	05/31/23 16:00	FIELD	Field*
pH, Field Measured	7.03	pH Units		05/31/23 16:00	1		05/31/23 16:00	FIELD	Field*
Specific Conductance, Field Measured	1602	umhos/cm		05/31/23 16:00	1		05/31/23 16:00	FIELD	Field*
Temperature, Field Measured	17.6	°C		05/31/23 16:00	1		05/31/23 16:00	FIELD	Field*
Turbidity, Field Measured	131	NTU		05/31/23 16:00	1	0.00	05/31/23 16:00	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	450	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1200	mg/L		06/02/23 14:38	1	26	06/02/23 14:38	HRF/MK H	SM 2540C
<u>Total Metals - PIA</u>									
Arsenic	2.2	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:38	JMW	EPA 6020A
Barium	42	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:38	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 15:49	JMW	EPA 6020A
Boron	2100	ug/L		06/12/23 09:37	5	10	06/13/23 15:49	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:38	JMW	EPA 6020A
Calcium	160	mg/L		06/12/23 09:37	5	0.20	06/13/23 15:49	JMW	EPA 6020A
Chromium	4.0	ug/L		06/12/23 09:37	5	4.0	06/13/23 15:49	JMW	EPA 6020A
Cobalt	10	ug/L		06/12/23 09:37	5	2.0	06/13/23 11:38	JMW	EPA 6020A
Lead	1.5	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:38	JMW	EPA 6020A
Magnesium	67	mg/L	Q4	06/12/23 09:37	5	0.10	06/13/23 15:49	JMW	EPA 6020A
Molybdenum	1.1	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:38	JMW	EPA 6020A
Potassium	0.87	mg/L		06/12/23 09:37	5	0.10	06/13/23 15:49	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:38	JMW	EPA 6020A
Sodium	120	mg/L	Q4	06/12/23 09:37	5	0.10	06/13/23 15:49	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00140-12

Name: G302

Matrix: Ground Water - Grab

Sampled: 05/31/23 16:00

Received: 06/01/23 13:59

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/12/23 09:37	1	0.020	06/13/23 08:17	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF00140-13
Name: G302 DUP
Matrix: Ground Water - Grab

Sampled: 05/31/23 16:00
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	13	mg/L		06/01/23 20:38	5	5.0	06/01/23 20:38	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/01/23 20:20	1	0.250	06/01/23 20:20	CRD	EPA 300.0 REV 2.1
Sulfate	460	mg/L		06/01/23 21:32	100	100	06/01/23 21:32	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	11.18	Feet		05/31/23 16:00	1		05/31/23 16:00	FIELD	Field*
Dissolved oxygen, Field	2.6	mg/L		05/31/23 16:00	1		05/31/23 16:00	FIELD	Field*
Oxidation Reduction Potential	-79.9	mV		05/31/23 16:00	1	-500	05/31/23 16:00	FIELD	Field*
pH, Field Measured	7.03	pH Units		05/31/23 16:00	1		05/31/23 16:00	FIELD	Field*
Specific Conductance, Field Measured	1602	umhos/cm		05/31/23 16:00	1		05/31/23 16:00	FIELD	Field*
Temperature, Field Measured	17.6	°C		05/31/23 16:00	1		05/31/23 16:00	FIELD	Field*
Turbidity, Field Measured	131	NTU		05/31/23 16:00	1	0.00	05/31/23 16:00	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	440	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1200	mg/L		06/02/23 14:38	1	26	06/02/23 14:38	HRF/MK H	SM 2540C
Total Metals - PIA									
Arsenic	2.1	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:41	JMW	EPA 6020A
Barium	41	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:41	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 15:53	JMW	EPA 6020A
Boron	2100	ug/L		06/12/23 09:37	5	10	06/13/23 15:53	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:41	JMW	EPA 6020A
Calcium	160	mg/L		06/12/23 09:37	5	0.20	06/13/23 15:53	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/12/23 09:37	5	4.0	06/13/23 15:53	JMW	EPA 6020A
Cobalt	9.9	ug/L		06/12/23 09:37	5	2.0	06/13/23 11:41	JMW	EPA 6020A
Lead	1.2	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:41	JMW	EPA 6020A
Magnesium	66	mg/L		06/12/23 09:37	5	0.10	06/13/23 15:53	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:41	JMW	EPA 6020A
Potassium	0.82	mg/L		06/12/23 09:37	5	0.10	06/13/23 15:53	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:41	JMW	EPA 6020A
Sodium	120	mg/L		06/12/23 09:37	5	0.10	06/13/23 15:53	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00140-13

Name: G302 DUP

Matrix: Ground Water - Grab

Sampled: 05/31/23 16:00

Received: 06/01/23 13:59

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/12/23 09:37	1	0.020	06/13/23 08:18	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF00140-14
Name: G303
Matrix: Ground Water - Grab

Sampled: 05/31/23 17:23
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	25	mg/L		06/01/23 22:08	10	10	06/01/23 22:08	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/01/23 21:50	1	0.250	06/01/23 21:50	CRD	EPA 300.0 REV 2.1
Sulfate	740	mg/L		06/01/23 22:26	100	100	06/01/23 22:26	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.18	Feet		05/31/23 17:23	1		05/31/23 17:23	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		05/31/23 17:23	1		05/31/23 17:23	FIELD	Field*
Oxidation Reduction Potential	-70.2	mV		05/31/23 17:23	1	-500	05/31/23 17:23	FIELD	Field*
pH, Field Measured	7.14	pH Units		05/31/23 17:23	1		05/31/23 17:23	FIELD	Field*
Specific Conductance, Field Measured	2302	umhos/cm		05/31/23 17:23	1		05/31/23 17:23	FIELD	Field*
Temperature, Field Measured	17.8	°C		05/31/23 17:23	1		05/31/23 17:23	FIELD	Field*
Turbidity, Field Measured	40.6	NTU		05/31/23 17:23	1	0.00	05/31/23 17:23	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	620	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1800	mg/L	M	06/02/23 14:38	1	26	06/02/23 14:38	HRF/MK H	SM 2540C
Total Metals - PIA									
Arsenic	2.6	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:45	JMW	EPA 6020A
Barium	15	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:45	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 15:57	JMW	EPA 6020A
Boron	1800	ug/L		06/12/23 09:37	5	10	06/13/23 15:57	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:45	JMW	EPA 6020A
Calcium	180	mg/L		06/12/23 09:37	5	0.20	06/13/23 15:57	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/12/23 09:37	5	4.0	06/13/23 15:57	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/12/23 09:37	5	2.0	06/13/23 11:45	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:45	JMW	EPA 6020A
Magnesium	140	mg/L		06/12/23 09:37	5	0.10	06/13/23 15:57	JMW	EPA 6020A
Molybdenum	1.6	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:45	JMW	EPA 6020A
Potassium	2.2	mg/L		06/12/23 09:37	5	0.10	06/13/23 15:57	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:45	JMW	EPA 6020A
Sodium	160	mg/L		06/12/23 09:37	5	0.10	06/13/23 15:57	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00140-14

Name: G303

Matrix: Ground Water - Grab

Sampled: 05/31/23 17:23

Received: 06/01/23 13:59

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	0.032	mg/L		06/12/23 09:37	1	0.020	06/13/23 08:19	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF00140-15
Name: G316
Matrix: Ground Water - Grab

Sampled: 05/31/23 10:33
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	26	mg/L		06/01/23 23:02	10	10	06/01/23 23:02	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/01/23 22:44	1	0.250	06/01/23 22:44	CRD	EPA 300.0 REV 2.1
Sulfate	760	mg/L		06/01/23 23:20	100	100	06/01/23 23:20	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	12.23	Feet		05/31/23 10:33	1		05/31/23 10:33	FIELD	Field*
Dissolved oxygen, Field	0.95	mg/L		05/31/23 10:33	1		05/31/23 10:33	FIELD	Field*
Oxidation Reduction Potential	-94.3	mV		05/31/23 10:33	1	-500	05/31/23 10:33	FIELD	Field*
pH, Field Measured	7.19	pH Units		05/31/23 10:33	1		05/31/23 10:33	FIELD	Field*
Specific Conductance, Field Measured	2221	umhos/cm		05/31/23 10:33	1		05/31/23 10:33	FIELD	Field*
Temperature, Field Measured	14.5	°C		05/31/23 10:33	1		05/31/23 10:33	FIELD	Field*
Turbidity, Field Measured	65.4	NTU		05/31/23 10:33	1	0.00	05/31/23 10:33	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	590	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1700	mg/L		06/02/23 14:38	1	26	06/02/23 14:38	HRF/MK H	SM 2540C
Total Metals - PIA									
Arsenic	6.7	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:49	JMW	EPA 6020A
Barium	66	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:49	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 16:01	JMW	EPA 6020A
Boron	390	ug/L		06/12/23 09:37	5	10	06/13/23 16:01	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:49	JMW	EPA 6020A
Calcium	190	mg/L		06/12/23 09:37	5	0.20	06/13/23 16:01	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/12/23 09:37	5	4.0	06/13/23 16:01	JMW	EPA 6020A
Cobalt	2.5	ug/L		06/12/23 09:37	5	2.0	06/13/23 11:49	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:49	JMW	EPA 6020A
Magnesium	150	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:01	JMW	EPA 6020A
Molybdenum	4.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:49	JMW	EPA 6020A
Potassium	1.8	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:01	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 11:49	JMW	EPA 6020A
Sodium	100	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:01	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00140-15

Name: G316

Matrix: Ground Water - Grab

Sampled: 05/31/23 10:33

Received: 06/01/23 13:59

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/12/23 09:37	1	0.020	06/13/23 08:21	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF00140-21
Name: G314D
Matrix: Ground Water - Grab

Sampled: 06/01/23 09:38
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	59	mg/L		06/02/23 06:30	25	25	06/02/23 06:30	CRD	EPA 300.0 REV 2.1
Sulfate	1100	mg/L		06/02/23 06:49	250	250	06/02/23 06:49	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.74	Feet		06/01/23 09:38	1		06/01/23 09:38	FIELD	Field*
Dissolved oxygen, Field	0.45	mg/L		06/01/23 09:38	1		06/01/23 09:38	FIELD	Field*
Oxidation Reduction Potential	-8.30	mV		06/01/23 09:38	1	-500	06/01/23 09:38	FIELD	Field*
pH, Field Measured	7.12	pH Units		06/01/23 09:38	1		06/01/23 09:38	FIELD	Field*
Specific Conductance, Field Measured	3071	umhos/cm		06/01/23 09:38	1		06/01/23 09:38	FIELD	Field*
Temperature, Field Measured	15.0	°C		06/01/23 09:38	1		06/01/23 09:38	FIELD	Field*
Turbidity, Field Measured	654	NTU		06/01/23 09:38	1	0.00	06/01/23 09:38	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	680	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Fluoride	0.607	mg/L		06/07/23 12:50	1	0.250	06/07/23 12:50	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2400	mg/L	M	06/02/23 15:56	1	26	06/02/23 15:56	HRF/MK H	SM 2540C
Total Metals - PIA									
Arsenic	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:31	JMW	EPA 6020A
Barium	16	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:31	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 16:24	JMW	EPA 6020A
Boron	130	ug/L		06/12/23 09:37	5	10	06/13/23 16:24	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:31	JMW	EPA 6020A
Calcium	770	mg/L	Q4	06/12/23 09:37	100	4.0	06/13/23 15:27	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/12/23 09:37	5	4.0	06/13/23 16:24	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/12/23 09:37	5	2.0	06/13/23 12:31	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:31	JMW	EPA 6020A
Magnesium	260	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:24	JMW	EPA 6020A
Molybdenum	2.6	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:31	JMW	EPA 6020A
Potassium	3.3	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:24	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:31	JMW	EPA 6020A
Sodium	130	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:24	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00140-21

Name: G314D

Matrix: Ground Water - Grab

Sampled: 06/01/23 09:38

Received: 06/01/23 13:59

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/12/23 09:37	1	0.020	06/13/23 08:30	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF00140-22
Name: G314
Matrix: Ground Water - Grab

Sampled: 06/01/23 10:47
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	30	mg/L		06/02/23 07:27	10	10	06/02/23 07:27	CRD	EPA 300.0 REV 2.1
Sulfate	2000	mg/L		06/02/23 07:46	500	500	06/02/23 07:46	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	4.88	Feet		06/01/23 10:47	1		06/01/23 10:47	FIELD	Field*
Dissolved oxygen, Field	0.68	mg/L		06/01/23 10:47	1		06/01/23 10:47	FIELD	Field*
Oxidation Reduction Potential	-4.40	mV		06/01/23 10:47	1	-500	06/01/23 10:47	FIELD	Field*
pH, Field Measured	6.78	pH Units		06/01/23 10:47	1		06/01/23 10:47	FIELD	Field*
Specific Conductance, Field Measured	3987	umhos/cm		06/01/23 10:47	1		06/01/23 10:47	FIELD	Field*
Temperature, Field Measured	16.1	°C		06/01/23 10:47	1		06/01/23 10:47	FIELD	Field*
Turbidity, Field Measured	11.0	NTU		06/01/23 10:47	1	0.00	06/01/23 10:47	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	660	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		06/07/23 12:52	1	0.250	06/07/23 12:52	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	3700	mg/L		06/02/23 15:56	1	26	06/02/23 15:56	HRF/MK H	SM 2540C
Total Metals - PIA									
Arsenic	1.7	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:34	JMW	EPA 6020A
Barium	37	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:34	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 16:45	JMW	EPA 6020A
Boron	190	ug/L		06/12/23 09:37	5	10	06/13/23 16:45	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:34	JMW	EPA 6020A
Calcium	250	mg/L		06/12/23 09:37	5	0.20	06/13/23 16:45	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/12/23 09:37	5	4.0	06/13/23 16:45	JMW	EPA 6020A
Cobalt	3.5	ug/L		06/12/23 09:37	5	2.0	06/13/23 12:34	JMW	EPA 6020A
Lead	1.1	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:34	JMW	EPA 6020A
Magnesium	83	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:45	JMW	EPA 6020A
Molybdenum	4.8	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:34	JMW	EPA 6020A
Potassium	3.1	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:45	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:34	JMW	EPA 6020A
Sodium	390	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:45	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00140-22

Name: G314

Matrix: Ground Water - Grab

Sampled: 06/01/23 10:47

Received: 06/01/23 13:59

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/12/23 09:37	1	0.020	06/13/23 08:34	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF00140-29
Name: G310
Matrix: Ground Water - Grab

Sampled: 06/01/23 12:42
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	14	mg/L		06/02/23 14:28	5	5.0	06/02/23 14:28	LAM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/02/23 14:10	1	0.250	06/02/23 14:10	LAM	EPA 300.0 REV 2.1
Sulfate	620	mg/L		06/02/23 14:46	250	250	06/02/23 14:46	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	9.63	Feet		06/01/23 12:42	1		06/01/23 12:42	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		06/01/23 12:42	1		06/01/23 12:42	FIELD	Field*
Oxidation Reduction Potential	114	mV		06/01/23 12:42	1	-500	06/01/23 12:42	FIELD	Field*
pH, Field Measured	7.23	pH Units		06/01/23 12:42	1		06/01/23 12:42	FIELD	Field*
Specific Conductance, Field Measured	1566	umhos/cm		06/01/23 12:42	1		06/01/23 12:42	FIELD	Field*
Temperature, Field Measured	17.1	°C		06/01/23 12:42	1		06/01/23 12:42	FIELD	Field*
Turbidity, Field Measured	55.3	NTU		06/01/23 12:42	1	0.00	06/01/23 12:42	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	240	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1100	mg/L		06/02/23 15:56	1	26	06/02/23 15:56	HRF/MK H	SM 2540C
Total Metals - PIA									
Arsenic	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:46	JMW	EPA 6020A
Barium	14	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:46	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 16:57	JMW	EPA 6020A
Boron	1700	ug/L		06/12/23 09:37	5	10	06/13/23 16:57	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:46	JMW	EPA 6020A
Calcium	150	mg/L		06/12/23 09:37	5	0.20	06/13/23 16:57	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/12/23 09:37	5	4.0	06/13/23 16:57	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/12/23 09:37	5	2.0	06/13/23 12:46	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:46	JMW	EPA 6020A
Magnesium	49	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:57	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:46	JMW	EPA 6020A
Potassium	0.26	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:57	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:46	JMW	EPA 6020A
Sodium	150	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:57	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00140-29

Name: G310

Matrix: Ground Water - Grab

Sampled: 06/01/23 12:42

Received: 06/01/23 13:59

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/12/23 09:37	1	0.020	06/13/23 08:36	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF00140-30
Name: G312
Matrix: Ground Water - Grab

Sampled: 06/01/23 14:01
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	23	mg/L		06/02/23 16:16	5	5.0	06/02/23 16:16	LAM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/02/23 15:58	1	0.250	06/02/23 15:58	LAM	EPA 300.0 REV 2.1
Sulfate	750	mg/L		06/05/23 21:44	500	500	06/05/23 21:44	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	12.62	Feet		06/01/23 14:01	1		06/01/23 14:01	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		06/01/23 14:01	1		06/01/23 14:01	FIELD	Field*
Oxidation Reduction Potential	150	mV		06/01/23 14:01	1	-500	06/01/23 14:01	FIELD	Field*
pH, Field Measured	6.48	pH Units		06/01/23 14:01	1		06/01/23 14:01	FIELD	Field*
Specific Conductance, Field Measured	1412	umhos/cm		06/01/23 14:01	1		06/01/23 14:01	FIELD	Field*
Temperature, Field Measured	17.6	°C		06/01/23 14:01	1		06/01/23 14:01	FIELD	Field*
Turbidity, Field Measured	4.35	NTU		06/01/23 14:01	1	0.00	06/01/23 14:01	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	450	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1700	mg/L		06/02/23 15:56	1	26	06/02/23 15:56	HRF/MK H	SM 2540C
<u>Total Metals - PIA</u>									
Arsenic	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:50	JMW	EPA 6020A
Barium	29	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:50	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 17:00	JMW	EPA 6020A
Boron	1300	ug/L		06/12/23 09:37	5	10	06/13/23 17:00	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:50	JMW	EPA 6020A
Calcium	160	mg/L		06/12/23 09:37	5	0.20	06/13/23 17:00	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/12/23 09:37	5	4.0	06/13/23 17:00	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/12/23 09:37	5	2.0	06/13/23 12:50	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:50	JMW	EPA 6020A
Magnesium	100	mg/L		06/12/23 09:37	5	0.10	06/13/23 17:00	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:50	JMW	EPA 6020A
Potassium	0.43	mg/L		06/12/23 09:37	5	0.10	06/13/23 17:00	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:50	JMW	EPA 6020A
Sodium	71	mg/L		06/12/23 09:37	5	0.10	06/13/23 17:00	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00140-30
Name: G312
Matrix: Ground Water - Grab

Sampled: 06/01/23 14:01
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/12/23 09:37	1	0.020	06/13/23 08:37	TJJ	EPA 6010B

Sample: GF00140-33
Name: XSG-01
Matrix: Water

Sampled: 05/30/23 14:32
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Field - PIA

Depth, From Measuring Point	5.45	Feet		05/30/23 14:32	1		05/30/23 14:32	FIELD	Field*
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Sample: GF00140-34
Name: SG-02
Matrix: Water

Sampled: 05/30/23 15:25
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Field - PIA

Depth, From Measuring Point	7.47	Feet		05/30/23 15:25	1		05/30/23 15:25	FIELD	Field*
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Sample: GF00140-35
Name: SG-03
Matrix: Water

Sampled: 05/30/23 13:47
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Field - PIA

Depth, From Measuring Point	9.85	Feet		05/30/23 13:47	1		05/30/23 13:47	FIELD	Field*
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ANALYTICAL RESULTS

Sample: GF00245-06
Name: G308
Matrix: Ground Water - Grab

Sampled: 06/01/23 15:52
Received: 06/02/23 07:00
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	14	mg/L		06/02/23 19:53	5	5.0	06/02/23 19:53	LAM	EPA 300.0 REV 2.1
Fluoride	0.464	mg/L		06/02/23 19:35	1	0.250	06/02/23 19:35	LAM	EPA 300.0 REV 2.1
Sulfate	1000	mg/L		06/02/23 18:41	250	250	06/02/23 18:41	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	5.65	Feet		06/01/23 15:52	1		06/01/23 15:52	FIELD	Field*
Dissolved oxygen, Field	0.90	mg/L		06/01/23 15:52	1		06/01/23 15:52	FIELD	Field*
Oxidation Reduction Potential	98.2	mV		06/01/23 15:52	1	-500	06/01/23 15:52	FIELD	Field*
pH, Field Measured	7.34	pH Units		06/01/23 15:52	1		06/01/23 15:52	FIELD	Field*
Specific Conductance, Field Measured	2114	umhos/cm		06/01/23 15:52	1		06/01/23 15:52	FIELD	Field*
Temperature, Field Measured	16.8	°C		06/01/23 15:52	1		06/01/23 15:52	FIELD	Field*
Turbidity, Field Measured	56.5	NTU		06/01/23 15:52	1	0.00	06/01/23 15:52	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	220	mg/L		06/02/23 12:13	1	10	06/02/23 12:13	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		06/02/23 12:13	1	10	06/02/23 12:13	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1800	mg/L		06/02/23 15:56	1	26	06/02/23 15:56	HRF/MK H	SM 2540C
Total Metals - PIA									
Arsenic	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 13:31	JMW	EPA 6020A
Barium	21	ug/L		06/12/23 09:37	5	1.0	06/13/23 13:31	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 17:16	JMW	EPA 6020A
Boron	2700	ug/L		06/12/23 09:37	5	10	06/13/23 17:16	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 13:31	JMW	EPA 6020A
Calcium	200	mg/L		06/12/23 09:37	5	0.20	06/13/23 17:16	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/12/23 09:37	5	4.0	06/13/23 17:16	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/12/23 09:37	5	2.0	06/13/23 13:31	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 13:31	JMW	EPA 6020A
Magnesium	120	mg/L		06/12/23 09:37	5	0.10	06/13/23 17:16	JMW	EPA 6020A
Molybdenum	1.4	ug/L		06/12/23 09:37	5	1.0	06/13/23 13:31	JMW	EPA 6020A
Potassium	0.36	mg/L		06/12/23 09:37	5	0.10	06/13/23 17:16	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 13:31	JMW	EPA 6020A
Sodium	150	mg/L		06/12/23 09:37	5	0.10	06/13/23 17:16	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00245-06

Name: G308

Matrix: Ground Water - Grab

Sampled: 06/01/23 15:52

Received: 06/02/23 07:00

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/12/23 09:37	1	0.020	06/13/23 08:52	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF00908-06
Name: G307
Matrix: Ground Water - Grab

Sampled: 06/05/23 13:05
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	9.2	mg/L		06/06/23 23:37	5	5.0	06/06/23 23:37	CRD	EPA 300.0 REV 2.1
Fluoride	0.325	mg/L		06/06/23 23:16	1	0.250	06/06/23 23:16	CRD	EPA 300.0 REV 2.1
Sulfate	530	mg/L		06/06/23 23:59	250	250	06/06/23 23:59	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	0.07	Feet		06/05/23 13:05	1		06/05/23 13:05	FIELD	Field*
Dissolved oxygen, Field	0.14	mg/L		06/05/23 13:05	1		06/05/23 13:05	FIELD	Field*
Oxidation Reduction Potential	40.1	mV		06/05/23 13:05	1	-500	06/05/23 13:05	FIELD	Field*
pH, Field Measured	7.29	pH Units		06/05/23 13:05	1		06/05/23 13:05	FIELD	Field*
Specific Conductance, Field Measured	1337	umhos/cm		06/05/23 13:05	1		06/05/23 13:05	FIELD	Field*
Temperature, Field Measured	17.0	°C		06/05/23 13:05	1		06/05/23 13:05	FIELD	Field*
Turbidity, Field Measured	75.9	NTU		06/05/23 13:05	1	0.00	06/05/23 13:05	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	160	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	980	mg/L		06/07/23 11:24	1	26	06/07/23 11:24	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Arsenic	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/16/23 11:06	JMW	EPA 6020A
Barium	25	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:27	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:27	JMW	EPA 6020A
Boron	2000	ug/L		06/13/23 09:07	5	10	06/16/23 15:23	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:27	JMW	EPA 6020A
Calcium	150	mg/L		06/13/23 09:07	5	0.20	06/14/23 17:27	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/13/23 09:07	5	4.0	06/14/23 17:27	JMW	EPA 6020A
Cobalt	2.3	ug/L		06/13/23 09:07	5	2.0	06/14/23 17:27	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/16/23 11:06	JMW	EPA 6020A
Magnesium	49	mg/L		06/13/23 09:07	5	0.10	06/14/23 17:27	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:27	JMW	EPA 6020A
Potassium	4.0	mg/L		06/13/23 09:07	5	0.10	06/16/23 15:23	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:27	JMW	EPA 6020A
Sodium	77	mg/L		06/13/23 09:07	5	0.20	06/16/23 11:06	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00908-06

Name: G307

Matrix: Ground Water - Grab

Sampled: 06/05/23 13:05

Received: 06/06/23 17:25

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/13/23 09:07	1	0.020	06/20/23 10:31	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF00908-07
Name: G307D
Matrix: Ground Water - Grab

Sampled: 06/05/23 14:20
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	16	mg/L		06/19/23 22:22	5	5.0	06/19/23 22:22	CRD	EPA 300.0 REV 2.1
Fluoride	0.579	mg/L		06/07/23 01:24	1	0.250	06/07/23 01:24	CRD	EPA 300.0 REV 2.1
Sulfate	610	mg/L		06/07/23 02:49	100	100	06/07/23 02:49	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	2.65	Feet		06/05/23 14:20	1		06/05/23 14:20	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		06/05/23 14:20	1		06/05/23 14:20	FIELD	Field*
Oxidation Reduction Potential	-40.5	mV		06/05/23 14:20	1	-500	06/05/23 14:20	FIELD	Field*
pH, Field Measured	7.32	pH Units		06/05/23 14:20	1		06/05/23 14:20	FIELD	Field*
Specific Conductance, Field Measured	1549	umhos/cm		06/05/23 14:20	1		06/05/23 14:20	FIELD	Field*
Temperature, Field Measured	19.2	°C		06/05/23 14:20	1		06/05/23 14:20	FIELD	Field*
Turbidity, Field Measured	268	NTU		06/05/23 14:20	1	0.00	06/05/23 14:20	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	240	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1100	mg/L		06/07/23 11:24	1	26	06/07/23 11:24	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Arsenic	1.4	ug/L		06/13/23 09:07	5	1.0	06/16/23 11:10	JMW	EPA 6020A
Barium	32	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:31	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:31	JMW	EPA 6020A
Boron	1500	ug/L		06/13/23 09:07	5	10	06/20/23 10:47	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:31	JMW	EPA 6020A
Calcium	150	mg/L		06/13/23 09:07	5	0.20	06/14/23 17:31	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/13/23 09:07	5	4.0	06/14/23 17:31	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/13/23 09:07	5	2.0	06/14/23 17:31	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/16/23 11:10	JMW	EPA 6020A
Magnesium	65	mg/L		06/13/23 09:07	5	0.10	06/14/23 17:31	JMW	EPA 6020A
Molybdenum	4.2	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:31	JMW	EPA 6020A
Potassium	0.46	mg/L		06/13/23 09:07	5	0.10	06/16/23 15:37	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:31	JMW	EPA 6020A
Sodium	94	mg/L		06/13/23 09:07	5	0.20	06/16/23 11:10	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00908-07

Name: G307D

Matrix: Ground Water - Grab

Sampled: 06/05/23 14:20

Received: 06/06/23 17:25

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/13/23 09:07	1	0.020	06/20/23 10:32	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF00908-08
Name: G306
Matrix: Ground Water - Grab

Sampled: 06/05/23 15:43
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	< 1.0	mg/L		06/07/23 04:15	1	1.0	06/07/23 04:15	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/07/23 04:15	1	0.250	06/07/23 04:15	CRD	EPA 300.0 REV 2.1
Sulfate	130	mg/L		06/07/23 04:57	50	50	06/07/23 04:57	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	9.15	Feet		06/05/23 15:43	1		06/05/23 15:43	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		06/05/23 15:43	1		06/05/23 15:43	FIELD	Field*
Oxidation Reduction Potential	115	mV		06/05/23 15:43	1	-500	06/05/23 15:43	FIELD	Field*
pH, Field Measured	6.88	pH Units		06/05/23 15:43	1		06/05/23 15:43	FIELD	Field*
Specific Conductance, Field Measured	952.6	umhos/cm		06/05/23 15:43	1		06/05/23 15:43	FIELD	Field*
Temperature, Field Measured	16.8	°C		06/05/23 15:43	1		06/05/23 15:43	FIELD	Field*
Turbidity, Field Measured	280	NTU		06/05/23 15:43	1	0.00	06/05/23 15:43	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	410	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	520	mg/L		06/07/23 11:24	1	26	06/07/23 11:24	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Arsenic	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/16/23 11:14	JMW	EPA 6020A
Barium	41	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:46	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:46	JMW	EPA 6020A
Boron	2400	ug/L		06/13/23 09:07	5	10	06/20/23 10:50	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:46	JMW	EPA 6020A
Calcium	110	mg/L		06/13/23 09:07	5	0.20	06/14/23 17:46	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/13/23 09:07	5	4.0	06/14/23 17:46	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/13/23 09:07	5	2.0	06/14/23 17:46	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/16/23 11:14	JMW	EPA 6020A
Magnesium	40	mg/L		06/13/23 09:07	5	0.10	06/14/23 17:46	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:46	JMW	EPA 6020A
Potassium	0.30	mg/L		06/13/23 09:07	5	0.10	06/16/23 15:40	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 17:46	JMW	EPA 6020A
Sodium	44	mg/L		06/13/23 09:07	5	0.20	06/16/23 11:14	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00908-08

Name: G306

Matrix: Ground Water - Grab

Sampled: 06/05/23 15:43

Received: 06/06/23 17:25

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/13/23 09:07	1	0.020	06/20/23 10:33	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF00908-15
Name: G305
Matrix: Ground Water - Grab

Sampled: 06/06/23 09:58
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	23	mg/L		06/08/23 01:13	10	10	06/08/23 01:13	CRD	EPA 300.0 REV 2.1
Fluoride	0.258	mg/L		06/08/23 00:51	1	0.250	06/08/23 00:51	CRD	EPA 300.0 REV 2.1
Sulfate	910	mg/L		06/08/23 01:34	100	100	06/08/23 01:34	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	8.25	Feet		06/06/23 09:58	1		06/06/23 09:58	FIELD	Field*
Dissolved oxygen, Field	1.5	mg/L		06/06/23 09:58	1		06/06/23 09:58	FIELD	Field*
Oxidation Reduction Potential	-26.5	mV		06/06/23 09:58	1	-500	06/06/23 09:58	FIELD	Field*
pH, Field Measured	7.35	pH Units		06/06/23 09:58	1		06/06/23 09:58	FIELD	Field*
Specific Conductance, Field Measured	1921	umhos/cm		06/06/23 09:58	1		06/06/23 09:58	FIELD	Field*
Temperature, Field Measured	15.8	°C		06/06/23 09:58	1		06/06/23 09:58	FIELD	Field*
Turbidity, Field Measured	369	NTU		06/06/23 09:58	1	0.00	06/06/23 09:58	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	200	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1500	mg/L		06/07/23 11:24	1	26	06/07/23 11:24	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Arsenic	1.7	ug/L		06/13/23 09:07	5	1.0	06/16/23 11:48	JMW	EPA 6020A
Barium	38	ug/L		06/13/23 09:07	5	1.0	06/14/23 18:05	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 18:05	JMW	EPA 6020A
Boron	1900	ug/L		06/13/23 09:07	5	10	06/20/23 11:32	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 18:05	JMW	EPA 6020A
Calcium	180	mg/L		06/13/23 09:07	5	0.20	06/14/23 18:05	JMW	EPA 6020A
Chromium	7.7	ug/L		06/13/23 09:07	5	4.0	06/14/23 18:05	JMW	EPA 6020A
Cobalt	2.3	ug/L		06/13/23 09:07	5	2.0	06/14/23 18:05	JMW	EPA 6020A
Lead	5.6	ug/L		06/13/23 09:07	5	1.0	06/16/23 11:48	JMW	EPA 6020A
Magnesium	100	mg/L		06/13/23 09:07	5	0.10	06/14/23 18:05	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 18:05	JMW	EPA 6020A
Potassium	1.1	mg/L		06/13/23 09:07	5	0.10	06/16/23 15:55	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/13/23 09:07	5	1.0	06/14/23 18:05	JMW	EPA 6020A
Sodium	130	mg/L		06/13/23 09:07	5	0.10	06/16/23 15:55	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF00908-15

Name: G305

Matrix: Ground Water - Grab

Sampled: 06/06/23 09:58

Received: 06/06/23 17:25

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/13/23 09:07	1	0.020	06/20/23 10:37	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF01285-04
Name: G301
Matrix: Ground Water - Grab

Sampled: 06/06/23 16:38
Received: 06/07/23 16:16
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	13	mg/L		06/08/23 04:42	10	10	06/08/23 04:42	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/08/23 04:23	1	0.250	06/08/23 04:23	CRD	EPA 300.0 REV 2.1
Sulfate	540	mg/L		06/08/23 05:01	100	100	06/08/23 05:01	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	7.49	Feet		06/06/23 16:38	1		06/06/23 16:38	FIELD	Field*
Dissolved oxygen, Field	0.10	mg/L		06/06/23 16:38	1		06/06/23 16:38	FIELD	Field*
Oxidation Reduction Potential	-259	mV		06/06/23 16:38	1	-500	06/06/23 16:38	FIELD	Field*
pH, Field Measured	6.81	pH Units		06/06/23 16:38	1		06/06/23 16:38	FIELD	Field*
Specific Conductance, Field Measured	1335	umhos/cm		06/06/23 16:38	1		06/06/23 16:38	FIELD	Field*
Temperature, Field Measured	18.1	°C		06/06/23 16:38	1		06/06/23 16:38	FIELD	Field*
Turbidity, Field Measured	141	NTU		06/06/23 16:38	1	0.00	06/06/23 16:38	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	160	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	900	mg/L		06/08/23 12:23	1	26	06/08/23 12:23	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Arsenic	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 12:57	JMW	EPA 6020A
Barium	18	ug/L		06/14/23 10:45	5	1.0	06/16/23 12:57	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/20/23 08:23	JMW	EPA 6020A
Boron	2500	ug/L		06/14/23 10:45	5	10	06/20/23 08:23	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 12:57	JMW	EPA 6020A
Calcium	110	mg/L		06/14/23 10:45	5	0.20	06/16/23 16:11	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/14/23 10:45	5	4.0	06/16/23 16:11	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/14/23 10:45	5	2.0	06/16/23 12:57	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 12:57	JMW	EPA 6020A
Magnesium	42	mg/L		06/14/23 10:45	5	0.10	06/16/23 16:11	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 12:57	JMW	EPA 6020A
Potassium	1.6	mg/L		06/14/23 10:45	5	0.10	06/16/23 16:11	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 12:57	JMW	EPA 6020A
Sodium	120	mg/L		06/14/23 10:45	5	0.10	06/20/23 08:23	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF01285-04

Name: G301

Matrix: Ground Water - Grab

Sampled: 06/06/23 16:38

Received: 06/07/23 16:16

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/14/23 10:45	1	0.020	06/20/23 10:45	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF01285-05
Name: G313
Matrix: Ground Water - Grab

Sampled: 06/06/23 15:15
Received: 06/07/23 16:16
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	23	mg/L		06/08/23 06:16	10	10	06/08/23 06:16	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/08/23 05:20	1	0.250	06/08/23 05:20	CRD	EPA 300.0 REV 2.1
Sulfate	720	mg/L		06/08/23 06:35	100	100	06/08/23 06:35	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	3.03	Feet		06/06/23 15:15	1		06/06/23 15:15	FIELD	Field*
Dissolved oxygen, Field	0.81	mg/L		06/06/23 15:15	1		06/06/23 15:15	FIELD	Field*
Oxidation Reduction Potential	38.2	mV		06/06/23 15:15	1	-500	06/06/23 15:15	FIELD	Field*
pH, Field Measured	6.94	pH Units		06/06/23 15:15	1		06/06/23 15:15	FIELD	Field*
Specific Conductance, Field Measured	1971	umhos/cm		06/06/23 15:15	1		06/06/23 15:15	FIELD	Field*
Temperature, Field Measured	18.3	°C		06/06/23 15:15	1		06/06/23 15:15	FIELD	Field*
Turbidity, Field Measured	236	NTU		06/06/23 15:15	1	0.00	06/06/23 15:15	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	490	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1400	mg/L		06/08/23 12:23	1	26	06/08/23 12:23	MKH	SM 2540C
Total Metals - PIA									
Arsenic	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:01	JMW	EPA 6020A
Barium	18	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:01	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/20/23 08:27	JMW	EPA 6020A
Boron	3300	ug/L		06/14/23 10:45	5	10	06/20/23 08:27	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:01	JMW	EPA 6020A
Calcium	200	mg/L		06/14/23 10:45	5	0.20	06/16/23 16:15	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/14/23 10:45	5	4.0	06/16/23 16:15	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/14/23 10:45	5	2.0	06/16/23 13:01	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:01	JMW	EPA 6020A
Magnesium	100	mg/L		06/14/23 10:45	5	0.10	06/16/23 16:15	JMW	EPA 6020A
Molybdenum	1.2	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:01	JMW	EPA 6020A
Potassium	0.93	mg/L		06/14/23 10:45	5	0.10	06/16/23 16:15	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:01	JMW	EPA 6020A
Sodium	150	mg/L		06/14/23 10:45	5	0.10	06/20/23 08:27	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF01285-05

Name: G313

Matrix: Ground Water - Grab

Sampled: 06/06/23 15:15

Received: 06/07/23 16:16

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/14/23 10:45	1	0.020	06/20/23 10:46	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF01285-06
Name: G313 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 06/06/23 15:15
Received: 06/07/23 16:16
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	24	mg/L		06/08/23 07:13	10	10	06/08/23 07:13	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/08/23 06:54	1	0.250	06/08/23 06:54	CRD	EPA 300.0 REV 2.1
Sulfate	720	mg/L		06/08/23 07:32	100	100	06/08/23 07:32	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	3.03	Feet		06/06/23 15:15	1		06/06/23 15:15	FIELD	Field*
Dissolved oxygen, Field	0.81	mg/L		06/06/23 15:15	1		06/06/23 15:15	FIELD	Field*
Oxidation Reduction Potential	38.2	mV		06/06/23 15:15	1	-500	06/06/23 15:15	FIELD	Field*
pH, Field Measured	6.94	pH Units		06/06/23 15:15	1		06/06/23 15:15	FIELD	Field*
Specific Conductance, Field Measured	1971	umhos/cm		06/06/23 15:15	1		06/06/23 15:15	FIELD	Field*
Temperature, Field Measured	18.3	°C		06/06/23 15:15	1		06/06/23 15:15	FIELD	Field*
Turbidity, Field Measured	236	NTU		06/06/23 15:15	1	0.00	06/06/23 15:15	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	520	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1600	mg/L		06/08/23 12:23	1	26	06/08/23 12:23	MKH	SM 2540C
Total Metals - PIA									
Arsenic	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:05	JMW	EPA 6020A
Barium	19	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:05	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/20/23 08:31	JMW	EPA 6020A
Boron	3300	ug/L		06/14/23 10:45	5	10	06/20/23 08:31	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:05	JMW	EPA 6020A
Calcium	200	mg/L		06/14/23 10:45	5	0.20	06/16/23 16:30	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/14/23 10:45	5	4.0	06/16/23 16:30	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/14/23 10:45	5	2.0	06/16/23 13:05	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:05	JMW	EPA 6020A
Magnesium	100	mg/L		06/14/23 10:45	5	0.10	06/16/23 16:30	JMW	EPA 6020A
Molybdenum	1.1	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:05	JMW	EPA 6020A
Potassium	0.94	mg/L		06/14/23 10:45	5	0.10	06/16/23 16:30	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:05	JMW	EPA 6020A
Sodium	150	mg/L		06/14/23 10:45	5	0.10	06/20/23 08:31	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF01285-06

Name: G313 DUP

Matrix: Ground Water - Field Duplicate

Sampled: 06/06/23 15:15

Received: 06/07/23 16:16

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/14/23 10:45	1	0.020	06/20/23 10:47	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF01285-08
Name: G315
Matrix: Ground Water - Grab

Sampled: 06/07/23 10:02
Received: 06/07/23 16:16
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	15	mg/L		06/08/23 11:37	10	10	06/08/23 11:37	CRD	EPA 300.0 REV 2.1
Fluoride	0.286	mg/L		06/08/23 11:19	1	0.250	06/08/23 11:19	CRD	EPA 300.0 REV 2.1
Sulfate	600	mg/L		06/08/23 11:55	250	250	06/08/23 11:55	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	3.6	Feet		06/07/23 10:02	1		06/07/23 10:02	FIELD	Field*
Dissolved oxygen, Field	0.72	mg/L		06/07/23 10:02	1		06/07/23 10:02	FIELD	Field*
Oxidation Reduction Potential	140	mV		06/07/23 10:02	1	-500	06/07/23 10:02	FIELD	Field*
pH, Field Measured	6.88	pH Units		06/07/23 10:02	1		06/07/23 10:02	FIELD	Field*
Specific Conductance, Field Measured	1491	umhos/cm		06/07/23 10:02	1		06/07/23 10:02	FIELD	Field*
Temperature, Field Measured	14.4	°C		06/07/23 10:02	1		06/07/23 10:02	FIELD	Field*
Turbidity, Field Measured	115	NTU		06/07/23 10:02	1	0.00	06/07/23 10:02	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	220	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L		06/14/23 09:59	1	2.0	06/14/23 09:59	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1100	mg/L		06/08/23 12:23	1	26	06/08/23 12:23	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Arsenic	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:12	JMW	EPA 6020A
Barium	36	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:12	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/20/23 09:09	JMW	EPA 6020A
Boron	1200	ug/L		06/14/23 10:45	5	10	06/20/23 09:09	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:12	JMW	EPA 6020A
Calcium	140	mg/L		06/14/23 10:45	5	0.20	06/16/23 16:38	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/14/23 10:45	5	4.0	06/16/23 16:38	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/14/23 10:45	5	2.0	06/16/23 13:12	JMW	EPA 6020A
Lead	1.8	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:12	JMW	EPA 6020A
Magnesium	65	mg/L		06/14/23 10:45	5	0.10	06/16/23 16:38	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:12	JMW	EPA 6020A
Potassium	0.54	mg/L		06/14/23 10:45	5	0.10	06/16/23 16:38	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/14/23 10:45	5	1.0	06/16/23 13:12	JMW	EPA 6020A
Sodium	110	mg/L		06/14/23 10:45	5	0.10	06/20/23 09:09	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF01285-08

Name: G315

Matrix: Ground Water - Grab

Sampled: 06/07/23 10:02

Received: 06/07/23 16:16

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/14/23 10:45	1	0.020	06/20/23 10:49	TJJ	EPA 6010B



ANALYTICAL RESULTS

Sample: GF01654-13
Name: G281
Matrix: Ground Water - Grab

Sampled: 06/08/23 13:48
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	75	mg/L		06/09/23 15:55	10	10	06/09/23 15:55	CRD	EPA 300.0 REV 2.1
Fluoride	0.253	mg/L		06/09/23 15:34	1	0.250	06/09/23 15:34	CRD	EPA 300.0 REV 2.1
Sulfate	140	mg/L		06/09/23 16:17	50	50	06/09/23 16:17	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	7.42	Feet		06/08/23 13:48	1		06/08/23 13:48	FIELD	Field*
Dissolved oxygen, Field	0.95	mg/L		06/08/23 13:48	1		06/08/23 13:48	FIELD	Field*
Oxidation Reduction Potential	11.0	mV		06/08/23 13:48	1	-500	06/08/23 13:48	FIELD	Field*
pH, Field Measured	6.77	pH Units		06/08/23 13:48	1		06/08/23 13:48	FIELD	Field*
Specific Conductance, Field Measured	1350	umhos/cm		06/08/23 13:48	1		06/08/23 13:48	FIELD	Field*
Temperature, Field Measured	18.4	°C		06/08/23 13:48	1		06/08/23 13:48	FIELD	Field*
Turbidity, Field Measured	35.6	NTU		06/08/23 13:48	1	0.00	06/08/23 13:48	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	360	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	1000	mg/L		06/12/23 10:55	1	26	06/12/23 10:55	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Arsenic	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 10:39	JMW	EPA 6020A
Barium	71	ug/L		06/15/23 05:55	5	1.0	06/21/23 10:39	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 10:39	JMW	EPA 6020A
Boron	< 10	ug/L		06/15/23 05:55	5	10	06/21/23 10:39	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 10:39	JMW	EPA 6020A
Calcium	130	mg/L		06/15/23 05:55	5	0.20	06/21/23 10:39	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 05:55	5	4.0	06/21/23 10:39	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/15/23 05:55	5	2.0	06/21/23 10:39	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 10:39	JMW	EPA 6020A
Magnesium	61	mg/L		06/15/23 05:55	5	0.10	06/21/23 10:39	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 10:39	JMW	EPA 6020A
Potassium	0.53	mg/L		06/15/23 05:55	5	0.10	06/21/23 10:39	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/22/23 08:19	JMW	EPA 6020A
Sodium	89	mg/L		06/15/23 05:55	5	0.10	06/21/23 10:39	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: GF01654-13

Name: G281

Matrix: Ground Water - Grab

Sampled: 06/08/23 13:48

Received: 06/09/23 06:50

PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		06/15/23 05:55	1	0.020	06/20/23 12:09	TJJ	EPA 6010B



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B334979 - No Prep - SM 2540C</u>									
Blank (B334979-BLK1)				Prepared & Analyzed: 06/02/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B334979-BS1)				Prepared & Analyzed: 06/02/23					
Solids - total dissolved solids (TDS)	970	mg/L		1000		97	84.9-109		
<u>Batch B335001 - No Prep - SM 2540C</u>									
Blank (B335001-BLK1)				Prepared & Analyzed: 06/02/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B335001-BS1)				Prepared & Analyzed: 06/02/23					
Solids - total dissolved solids (TDS)	980	mg/L		1000		98	84.9-109		
<u>Batch B335327 - No Prep - SM 2540C</u>									
Blank (B335327-BLK1)				Prepared & Analyzed: 06/07/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B335327-BS1)				Prepared & Analyzed: 06/07/23					
Solids - total dissolved solids (TDS)	987	mg/L		1000		99	84.9-109		
<u>Batch B335489 - No Prep - SM 2540C</u>									
Blank (B335489-BLK1)				Prepared & Analyzed: 06/08/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B335489-BS1)				Prepared & Analyzed: 06/08/23					
Solids - total dissolved solids (TDS)	983	mg/L		1000		98	84.9-109		
<u>Batch B335621 - No Prep - SM 2540C</u>									
Blank (B335621-BLK1)				Prepared & Analyzed: 06/12/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B335621-BS1)				Prepared & Analyzed: 06/12/23					
Solids - total dissolved solids (TDS)	1030	mg/L		1000		103	84.9-109		
<u>Batch B335739 - SW 3015 - EPA 6010B</u>									
Blank (B335739-BLK1)				Prepared: 06/12/23 Analyzed: 06/13/23					
Lithium	< 0.020	mg/L							
LCS (B335739-BS1)				Prepared: 06/12/23 Analyzed: 06/13/23					
Lithium	0.588	mg/L		0.5556		106	80-120		
<u>Batch B335739 - SW 3015 - EPA 6020A</u>									
Blank (B335739-BLK1)				Prepared: 06/12/23 Analyzed: 06/13/23					
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B335739-BLK1)				Prepared: 06/12/23 Analyzed: 06/13/23					
Magnesium	< 0.10	mg/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
LCS (B335739-BS1)				Prepared: 06/12/23 Analyzed: 06/13/23					
Arsenic	545	ug/L		555.6		98	80-120		
Barium	534	ug/L		555.6		96	80-120		
Beryllium	542	ug/L		555.6		98	80-120		
Boron	557	ug/L		555.6		100	80-120		
Cadmium	568	ug/L		555.6		102	80-120		
Calcium	5.90	mg/L		5.556		106	80-120		
Chromium	569	ug/L		555.6		102	80-120		
Cobalt	543	ug/L		555.6		98	80-120		
Lead	562	ug/L		555.6		101	80-120		
Magnesium	5.53	mg/L		5.556		99	80-120		
Molybdenum	552	ug/L		555.6		99	80-120		
Potassium	5.66	mg/L		5.556		102	80-120		
Selenium	573	ug/L		555.6		103	80-120		
Sodium	5.65	mg/L		5.556		102	80-120		
<u>Batch B335861 - SW 3015 - EPA 6010B</u>									
Blank (B335861-BLK1)				Prepared: 06/13/23 Analyzed: 06/20/23					
Lithium	< 0.020	mg/L							
LCS (B335861-BS1)				Prepared: 06/13/23 Analyzed: 06/20/23					
Lithium	0.582	mg/L		0.5556		105	80-120		
<u>Batch B335861 - SW 3015 - EPA 6020A</u>									
Blank (B335861-BLK1)				Prepared: 06/13/23 Analyzed: 06/16/23					
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
LCS (B335861-BS1)				Prepared: 06/13/23 Analyzed: 06/16/23					
Arsenic	548	ug/L		555.6		99	80-120		
Barium	509	ug/L		555.6		92	80-120		
Beryllium	512	ug/L		555.6		92	80-120		



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B335861-BS1)				Prepared: 06/13/23 Analyzed: 06/16/23					
Boron	590	ug/L		555.6		106	80-120		
Cadmium	529	ug/L		555.6		95	80-120		
Calcium	5.31	mg/L		5.556		96	80-120		
Chromium	534	ug/L		555.6		96	80-120		
Cobalt	535	ug/L		555.6		96	80-120		
Lead	537	ug/L		555.6		97	80-120		
Magnesium	5.61	mg/L		5.556		101	80-120		
Molybdenum	503	ug/L		555.6		90	80-120		
Potassium	5.74	mg/L		5.556		103	80-120		
Selenium	528	ug/L		555.6		95	80-120		
Sodium	5.65	mg/L		5.556		102	80-120		
<u>Batch B336004 - SW 3015 - EPA 6010B</u>									
Blank (B336004-BLK1)				Prepared: 06/14/23 Analyzed: 06/20/23					
Lithium	< 0.020	mg/L							
LCS (B336004-BS1)				Prepared: 06/14/23 Analyzed: 06/20/23					
Lithium	0.580	mg/L		0.5556		104	80-120		
<u>Batch B336004 - SW 3015 - EPA 6020A</u>									
Blank (B336004-BLK1)				Prepared: 06/14/23 Analyzed: 06/16/23					
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
LCS (B336004-BS1)				Prepared: 06/14/23 Analyzed: 06/16/23					
Arsenic	570	ug/L		555.6		103	80-120		
Barium	558	ug/L		555.6		100	80-120		
Beryllium	555	ug/L		555.6		100	80-120		
Boron	542	ug/L		555.6		98	80-120		
Cadmium	554	ug/L		555.6		100	80-120		
Calcium	6.00	mg/L		5.556		108	80-120		
Chromium	569	ug/L		555.6		102	80-120		
Cobalt	551	ug/L		555.6		99	80-120		
Lead	553	ug/L		555.6		100	80-120		
Magnesium	5.81	mg/L		5.556		105	80-120		
Molybdenum	546	ug/L		555.6		98	80-120		
Potassium	6.02	mg/L		5.556		108	80-120		



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B336004-BS1)				Prepared: 06/14/23 Analyzed: 06/16/23					
Selenium	579	ug/L		555.6		104	80-120		
Sodium	5.80	mg/L		5.556		104	80-120		
<u>Batch B336065 - No Prep - SM 2320B 1997</u>									
Duplicate (B336065-DUP4)				Sample: GF00908-06		Prepared & Analyzed: 06/14/23			
Alkalinity - bicarbonate as CaCO3	175	mg/L			162			7	10
Alkalinity - carbonate as CaCO3	< 2.0	mg/L			ND				10
<u>Batch B336092 - SW 3015 - EPA 6010B</u>									
Blank (B336092-BLK1)				Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	< 0.020	mg/L							
LCS (B336092-BS1)				Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	0.583	mg/L		0.5556		105	80-120		
<u>Batch B336092 - SW 3015 - EPA 6020A</u>									
Blank (B336092-BLK1)				Prepared: 06/15/23 Analyzed: 06/21/23					
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
LCS (B336092-BS1)				Prepared: 06/15/23 Analyzed: 06/21/23					
Arsenic	550	ug/L		555.6		99	80-120		
Barium	558	ug/L		555.6		100	80-120		
Beryllium	502	ug/L		555.6		90	80-120		
Boron	492	ug/L		555.6		89	80-120		
Cadmium	563	ug/L		555.6		101	80-120		
Calcium	5.73	mg/L		5.556		103	80-120		
Chromium	566	ug/L		555.6		102	80-120		
Cobalt	534	ug/L		555.6		96	80-120		
Lead	538	ug/L		555.6		97	80-120		
Magnesium	5.58	mg/L		5.556		100	80-120		
Molybdenum	546	ug/L		555.6		98	80-120		
Potassium	5.42	mg/L		5.556		98	80-120		
Selenium	574	ug/L		555.6		103	80-120		
Sodium	5.41	mg/L		5.556		97	80-120		



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.

Gail G Schindler



Certified by: Gail Schindler, Project Manager

GFO0140
Inw-6-1-23
6-1-23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Project Name:		Quote Reference:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Project Manager:	
				Profile #:	

REGULATORY AGENCY	
NPDES	GROUND WATER
UST	RCRA
Site Location	OTHER
STATE:	IL

Section D Required Client Information		Valid Matrix Codes		Matrix Code		Sample Type		Collected		Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.	
SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE		DRINKING WATER WATER WASTE WATER WASTEWATER SOLID OIL WIFE AIR OTHER TISSUE		DW WT WW WWT SL OL WP AR OT TS		(see valid codes to left)		DATE TIME		Y/N		Residual Chlorine (Y/N)	
1	G214					G	G	6/1	1300				COF_WPCP_106
2	G111					G	G	6/1	1315				COF_WPCP_103_104
3	G310					G	G	6/1	1442				COF_WPCP_102
4	G312					G	G	6/1	1401				COF_SUP_000
5	G277					G	G	6/1	1207				COF_845_104
6	G277					G	G	6/1	1027				COF_845_103
7													COF_845_102
8													COF_845_101
9													COF_811_105
10													COF_257_105
11													COF_257_104
12													COF_257_103
13													COF_257_102
14													COF_257_101
15													
16													

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
COF-23Q2 Rev 1		Brenden Bluma		6/1		1645		Brenden Bluma		6/1		1645		Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)	
		Brenden Bluma		6/1		1645		Brenden Bluma		6/1		1645		Y N Y	

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

APPENDIX A

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

COFFEEN PC
COF-257-101

Page: 2 of 7

REGULATORY AGENCY	
NPDES	GROUND WATER
UST	RCRA
	OTHER
	DRINKING WATER

Site Location	IL	
STATE:		

Analysis Filtered (Y/N)

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS

[illegible]

SAMPLER NAME AND SIGNATURE PRINT NAME OF SAMPLER: SIGNATURE OF SAMPLER:	DATE SIGNED (MM/DD/YYYY):	6/1/23	Temp in °C Received on Ice (Y/N) Sealed Cooler Custody (Y/N) Samples Intact (Y/N)
			
			
			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

38-61-93

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Project Name:		Quote Reference:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Project Manager:	
REGULATORY AGENCY		REGULATORY AGENCY		REGULATORY AGENCY	
NPDES		GROUND WATER		DRINKING WATER	
UST		RCRA		OTHER	
Site Location		IL		STATE:	
COF-257-101		GF00908		gfg	

Section D Required Client Information		Valid Matrix Codes		MATRIX CODE		SAMPLE TYPE (G=GRAB C=COMP)		COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Analysis Test		Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.	
ITEM #	SAMPLE ID (A-Z, 0-9 / -)	DRINKING WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER
1	G-210																				
2	G-216																				
3	G-241																				
4	G-276																				
5	G-273																				
6	G-307																				
7	G-307D																				
8	G-306																				
9	G-216 DUP																				
10																					
11																					
12																					
13																					
14																					
15																					
16																					

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
COF-23Q2 Rev 1		Brian Dai		6/6/23		1725		Vanduyne		6-6-23		1725		Received on (Y/N) ☒ Custody Sealed (Y/N) ☒ Intact (Y/N) ☒	
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		DATE Signed (MM/DD/YY):		SIGNATURE of SAMPLER:		TEMP in °C		4.6					
Dyes David		6/6/23													

CHAIN-OF-CUSTODY / Analytical Request Document

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APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Section A
Required Client Information:

Company: Vistra Corp
Address: 13498 E. 900th St
Email To: Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911 Fax:
Requested Due Date/TAT: 10 day

Section B
Required Project Information:

Report To: Brian Voelker
Copy To: Jason Stuckey
Purchase Order No.:
Project Name:
Project Number: 2285

Section C
Invoice Information:

Attention: Jason Stuckey
Company Name: Vistra Corp
Address: see Section A
Quote Reference:
Project Manager:
Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location IL GFO0908
STATE: gdf

ITEM #	Section D Required Client Information		Valid Matrix Codes		COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	Preservatives		Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.																	
	MATRIX	CODE	DRINKING WATER	DW	WATER	WT		WASTEWATER	WW	PRODUCT	P	SL	CL	WP	AR	OT	TS	DATE	TIME	DATE	TIME		COF_257_101	COF_257_102	COF_257_103	COF_257_104	COF_811_105	COF_845_101	COF_845_102	COF_845_103	COF_845_104	COF_SUP_000	COF_WPCP_102	COF_WPCP_103_104	COF_WPCP_106	Residual Chlorine (Y/N)			
1	G103																6/6/23	1301																					
2	G152																	1043																					
3	G153																	1220																					
4	G154																	1345																					
5	G271																	1116																					
6	G305																	959																					
7	G405																	1307																					
8	XPW01																	105																					
9	XPW02																	1213																					
10																																							
11																																							
12																																							
13																																							
14																																							
15																																							
16																																							
		ADDITIONAL COMMENTS		REQUISISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																							
		COF-23Q2 Rev 1		Joseph R. Dean		6/6/23 1725		Van Wagner		11-23 1725		41		N																									

COF-23Q2 Rev 1

REQUISITIONED BY / AFFILIATION: Joseph Voelker DATE: 6/6/23 TIME: 1725

ACCEPTED BY / AFFILIATION: Van Wagner DATE: 6-6-23 TIME: 1725

SAMPLE NAME AND SIGNATURE: Joseph Voelker

PRINT Name of SAMPLER: Joseph Voelker DATE Signed (MM/DD/YYYY): 6/6/23

SIGNATURE of SAMPLER: Joseph Voelker

COF01285
Vmw 6-7-23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pages: 4 of 7

Section A
Required Client Information:

Company: Vistra Corp
Address: 13498 E. 900th St
Email To: Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911 Fax:
Requested Due Date/TAT: 10 day

Section B
Required Project Information:

Report To: Brian Voelker
Copy To: Jason Stuckey
Purchase Order No.:
Project Name:
Project Number: 2285

Section C
Invoice Information:

Attention: Jason Stuckey
Company Name: Vistra Corp
Address: see Section A
Quote Reference:
Project Manager:
Profile #:

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location IL
STATE:

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DW DRINKING WATER WT WATER WW WASTEWATER P PRODUCT SL SOLID OL OIL WIPE AIR OTHER TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↑	Y/N ↑	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					H ₂ SO ₄	HNO ₃					HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF_257_101	COF_257_102	COF_257_103	COF_257_104	COF_257_105			COF_845_101	COF_845_102	COF_845_103	COF_845_104	COF_SUP_000	COF_WPCP_102	COF_WPCP_104	COF_WPCP_106	Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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COF-23Q2 Rev 1

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Stuckey DATE: 6/7/23 TIME: 1701

ACCEPTED BY / AFFILIATION: Van Wyke DATE: 6-7-23 TIME: 1702

SAMPLE NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Lane DATE Signed (MM/DD/YYYY): 6/7/23

SIGNATURE of SAMPLER: [Signature]

Received on 6-7-23 Temp in °C 41 Samples Intact (Y/N) Y Sealed Cooler (Y/N) N

6701654
6-9-23 VMW

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEE POWER PLANT, ASH POND NO. 1
COF-257-101

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Project Name:		Quote Reference:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Project Manager:	
REGULATORY AGENCY		NPDES		GROUND WATER	
RCRA		UST		OTHER	
Site Location		IL		STATE:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT WATER PW SOLID WASTE SW WASTE OIL WO WASTE AIR WA OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Y/N	Requested Analysis Filtered (Y/N)										Project No. / Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF_257_101	COF_257_102		COF_257_103	COF_257_104	COF_257_105	COF_845_101	COF_845_102	COF_845_103	COF_845_104	COF_SUP_000	COF_WPCP_102	COF_WPCP_103	
1	G-212				6/17/23	1535		15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	G-213					1649		15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
3	G-200					1723		15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
4	R-201					1540		15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
5	EB-01					1755		15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
6	G-275				6/18/23	1200		15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
7	G-275 Dup					1313		13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
8	G-275D					0925		15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
9	G-280					1432		13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
10	G-283					1353		13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
11	G-285					1515		6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
12	R-205					1348		14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
13	G-281					1210		6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
14	G-272					1164		6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
15	G-274					0954		15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
16	G-270																													

ACCEPTED BY / AFFILIATION		DATE		TIME	
James David		6/18/23		2055	
RELINQUISHED BY / AFFILIATION		DATE		TIME	
James David		6/18/23		2055	
ADDITIONAL COMMENTS					
COF-23Q2 Rev 1					
SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:			DATE Signed (MM/DD/YYYY):		
James David			6/18/23		
SIGNATURE of SAMPLER:			DATE Signed (MM/DD/YYYY):		
James David			6/18/23		
SAMPLER NAME AND SIGNATURE		DATE		TIME	
James David		6/18/23		2055	
PRINT Name of SAMPLER:		DATE Signed (MM/DD/YYYY):		TIME	
James David		6/18/23		2055	
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YYYY):		TIME	
James David		6/18/23		2055	
SAMPLER NAME AND SIGNATURE		DATE		TIME	
James David		6/18/23		2055	
PRINT Name of SAMPLER:		DATE Signed (MM/DD/YYYY):		TIME	
James David		6/18/23		2055	
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YYYY):		TIME	
James David		6/18/23		2055	
SAMPLER NAME AND SIGNATURE		DATE		TIME	
James David		6/18/23		2055	
PRINT Name of SAMPLER:		DATE Signed (MM/DD/YYYY):		TIME	
James David		6/18/23		2055	
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YYYY):		TIME	
James David		6/18/23		2055	
SAMPLER NAME AND SIGNATURE		DATE		TIME	
James David		6/18/23		2055	
PRINT Name of SAMPLER:		DATE Signed (MM/DD/YYYY):		TIME	
James David		6/18/23		2055	
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YYYY):		TIME	
James David		6/18/23		2055	

6-9-23 Vmw
6-9-23 Vmw

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911
Fax:	
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Jason Stuckey
Company Name:	Vistra Corp
Address:	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

Page:	82 of 136	
REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location	IL	STATE:

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIFE AIR OTHER TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)																	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ O ₃	Methanol	Other	COF_257_101	COF_257_102		COF_257_103	COF_257_104	COF_257_105	COF_811_105	COF_845_101	COF_845_102	COF_845_103	COF_845_104	COF_SUP_000	COF_WPCP_102	COF_WPCP_103	COF_WPCP_104	COF_WPCP_106	Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
1	G284					6/8/23	1516	13	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-23Q2 Rev 1		James David		6/18/23	2055	James David		6-9-23	650	Temp in °C	Received on	Custody	Sealed Cooler
										4.2	Y	N	Y

6-9-23 Vmw
6-14-23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company: **Visira Corp**
Address: **13498 E. 900th St**
Email To: **Brian.Voelker@VisiraCorp.com**
Phone: **(217) 753-8911** Fax:
Requested Due Date/TAT: **10 day**

Section B
Project Information:

Report To: **Brian Voelker**
Copy To: **Jason Stuckey**
Purchase Order No.:
Project Name:
Project Number: **2285**

Section C
Invoice Information:

Attention: **Jason Stuckey**
Company Name: **Visira Corp**
Address: **see Section A**
Quote Reference:
Project Manager:
Profile #:

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

REGULATORY AGENCY

NPDES
UST
RCRA
OTHER

GROUND WATER
DRINKING WATER

Site Location
STATE: **IL**

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DW WW P SL OL WP AR OT TS	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Project No./ Lab I.D.
					DATE	TIME									
1	6206 Dup		WTG	G	6/14/23	1320									
2	6206 Dup		WTG	G	6/14/23	1320									
3	6206 D		WTG	G	6/14/23	1229									
4	6207		WTG	G	6/14/23	1034									
5	6209		WTG	G	6/14/23	0944									
6	EB02		WTG	G	6/14/23	1343									
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															

COF-23Q2 Rev 1

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YYYY): 06/09/23

Temp in °C

Received on

Ice (Y/N)

Custody (Y/N)

Sealed Cooler (Y/N)

Samples Intact (Y/N)

SAR-3: Depth to Groundwater Measurements

Plant: COF

Event: COF-23Q2 Rev 1

COF-257-101

Well	Unique ID	Episodic	Transducer	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	Notes
									WL from HOBOnct (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		
G045D	COF_G045&D	X		AP2	102	5/30/23	1622	7.82					AP	Start note with relevant well ID TD 44.96
G046D	COF_G046&D	X		AP2	102	5/30/23	1447	14.54					AP	TD 55.14
G1001	COF_G1001		X	AP2	102						21615675			
G1003	COF_G1003	X		AP2	102	5/30/23	1538	10.92					AP	TD 11.23
G101	COF_G101	X		LF	105	5/30/23	1428	6.53					KL	
G102	COF_G102		X	LF	105						21615680			
G103	COF_G103		X	LF	105						21615689			
G105	COF_G105		X	LF	105						21615694			
G106	COF_G106		X	LF	105						21638030			
G107	COF_G107	X		LF	105	5/30/23	1422	10.85					KL	
G108	COF_G108	X		LF	105	5/30/23	1327	11.65					JD	
G109	COF_G109	X		LF	105	5/30/23	1330	11.89					JD	
G110	COF_G110	X		LF	105	5/30/23	1332	12.70					JD	
G111	COF_G111	X		LF	105	5/30/23	1622	13.70					JD	
G119	COF_G119	X		LF	105	5/30/23	1402	15.08					JD	
G120	COF_G120	X		LF	105	5/30/23	1405	14.86					JD	
G121	COF_G121	X		LF	105	5/30/23	1420	15.38					JD	

SAR-3: Depth to Groundwater Measurements

Plant: COF

Event: COF-23Q2 Rev 1

Well	Unique ID	Episodic	Transducer	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	Notes
									WL from HOBOnconnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		
G122	COF_G122	X		LF	105	5/30/23	1427	14.00					JD	Start note with relevant well ID
G123	COF_G123	X		LF	105	5/30/23	1430	12.68					JD	
G124	COF_G124	X		LF	105	5/30/23	1434	13.43					JD	
G125	COF_G125	X		LF	105	5/30/23	1436	13.54					JD	
G126	COF_G126	X		LF	105	5/30/23	1344	10.04					JD	
G151	COF_G151	X		SWP	106	5/30/23	1352	11.58					JD	
G152	COF_G152	X		SWP	106	5/30/23	1443	11.11					JD	
G153	COF_G153	X		SWP	106	5/30/23	1452	11.40					JD	
G154	COF_G154	X		SWP	106	5/30/23	1456	13.15					JD	
G155	COF_G155	X		SWP	106	5/30/23	1459	12.44					JD	
G200	COF_G200		X	GSP	103						21615630			
G206	COF_G206		X	GSP	103						21629315			
G206D	COF_G206&D		X	GSP	103						21638031			
G207	COF_G207		X	GSP	103						21638029			
G208	COF_G208		X	GSP	103						21638037			
G209	COF_G209		X	GSP	103						21629318			
G210	COF_G210		X	GSP	103						21638036			

SAR-3: Depth to Groundwater Measurements

Plant: COF
Event: COF-23Q2 Rev 1

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Well	Unique ID	Episodic	Transducer	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	Notes
									WL from HOBOnnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		
G211	COF_G211		X	GSP	103						21638040			Start note with relevant well ID
G212	COF_G212		X	GSP	103						21638035			
G213	COF_G213		X	GSP	103						21638033			
G214	COF_G214		X	GSP	103						21638039			
G215	COF_G215		X	GSP	103						21638034			
G216	COF_G216		X	GSP	103						21638038			
G217	COF_G217		X	GSP	103						21629316			
G218	COF_G218		X	GSP	103						21638032			
G270	COF_G270		X	RP	104						21615537			
G271	COF_G271		X	RP	104						21615558			
G272	COF_G272		X	RP	104						21615557			
G273	COF_G273		X	RP	104						21615564			
G274	COF_G274		X	RP	104						21629314			
G275	COF_G275	X		RP	104	5/30/23	1409	13.38					KL	Dry
G275D	COF_G275&D		X	RP	104						21638041			
G276	COF_G276		X	RP	104						21638043			
G277	COF_G277	X		RP	104	5/30/23	1404	18.21					KL	

SAR-3: Depth to Groundwater Measurements

Plant: COF

Event: COF-23Q2 Rev 1

Well	Unique ID	Episodic	Transducer	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	Notes
									WL from HOBOnne ct (ft)	N/Y	Data Logger Serial No.	Batt (H/M/L)		
G278	COF_G278	X		RP	104	5/30/23	1359	21.75					KL	Start note with relevant well ID TD 26.62
G279	COF_G279	X		RP	104	5/30/23	1352	22.73					KL	
G280	COF_G280		X	RP	104						21615563			
G281	COF_G281		X	RP	104						21629317			
G283	COF_G283		X	RP	104						21615528			
G284	COF_G284		X	RP	104						21638042			
G285	COF_G285		X	RP	104						21615521			
G286	COF_G286		X	RP	104						21615538			
G287	COF_G287		X	RP	104						21615534			
G288	COF_G288		X	RP	104						21615549			
G301	COF_G301		X	AP1	101						21615529			
G302	COF_G302		X	AP1	101						21615530			
G303	COF_G303		X	AP1	101						21615547			
G305	COF_G305		X	AP1	101						21615546			
G306	COF_G306		X	AP1	101						21615545			
G307	COF_G307		X	AP1	101						21615560			
G307D	COF_G307&D		X	AP1	101						21629305			

SAR-3: Depth to Groundwater Measurements

Plant: COF
Event: COF-23Q2 Rev 1

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Well	Unique ID	Episodic	Transducer	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	Notes
									WL from HOB	Oconn	ct	(ft)		
G308	COF_G308		X	AP1	101									
G309	COF_G309		X	AP1	101									
G310	COF_G310		X	AP1	101									
G311	COF_G311	X		AP1	101	5/30/23	1415	8.26					AP	
G311D	COF_G311&D	X		AP1	101	5/30/23	1417	23.26					AP	
G312	COF_G312		X	AP1	101									
G313	COF_G313		X	AP1	101									
G314	COF_G314		X	AP1	101									
G314D	COF_G314&D		X	AP1	101									
G315	COF_G315		X	AP1	101									
G316	COF_G316	X		AP1	101	5/30/23	1358	12.28					AP	
G317	COF_G317		X	AP1	101									
G401	COF_G401	X		AP2	102	5/30/23	1550	21.72					AP	
G402	COF_G402		X	AP2	102									
G403	COF_G403		X	AP2	102									
G404	COF_G404		X	AP2	102									
G405	COF_G405		X	AP2	102									

SAR-3: Depth to Groundwater Measurements

Plant: COF

Event: COF-23Q2 Rev 1

Well	Unique ID	Episodic	Transducer	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	Notes
									WL from HOBConnec t (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		
G406	COF_G406		X	AP2	102						21615123			Start note with relevant well ID
G407	COF_G407		X	AP2	102						21615122			
G410	COF_G410	X		AP2	102	5/30/23	1515	8.99					AP	
G411	COF_G411	X		AP2	102	5/30/23	1458	8.52					AP	
L201	COF_L201_leachate	X		LF	105	5/30/23	1611	3.28					JD	
L202	COF_L202_leachate	X		LF	105	5/30/23	1613	5.51					JD	
L203	COF_L203_leachate	X		LF	105	5/30/23	1617	5.73					JD	
MW03D	COF_MW03&D		X	GSP	103						21629304			
MW04S	COF_MW04#S	X		North	000	5/30/23	1558	6.63					JR	
MW05S	COF_MW05#S	X		North	000	5/30/23	1552	7.25					JA	
MW05D	COF_MW05&D	X		North	000	5/30/23	1550	18.29					JR	
MW06S	COF_MW06#S	X		North	000	5/30/23	1451	6.45					JR	
MW07S	COF_MW07#S	X		North	000	5/30/23	1544	5.23					JR	
MW09S	COF_MW09#S	X		North	000	5/30/23	1502	5.45					JR	
MW09D	COF_MW09&D	X		North	000	5/30/23	1500	13.91					JR	
MW10S	COF_MW10#S	X		North	000	5/30/23	1343	5.44					JR	
MW10D	COF_MW10&D	X		North	000	5/30/23	1341	15.73					JR	

SAR-3: Depth to Groundwater Measurements

Plant: COF

Event: COF-23Q2 Rev 1

Well	Unique ID	Episodic	Transducer	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	Notes
									WL from HOBConnec (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		
MW11S	COF_MW11#S		X	GSP	103						21615553			Start note with relevant well ID
MW11D	COF_MW11#D		X	GSP	103						21629307			
MW12S	COF_MW12#S	X		GSP	103	5/30/23	1544	7.36					KL	TD 18.54
MW12D	COF_MW12#D		X	GSP	103						21629310			
MW13S	COF_MW13#S	X		SWP	106	5/30/23	1445	10.19					JD	TD 19.39
MW13D	COF_MW13#D	X		SWP	106	5/30/23	1444	13.52					JD	TD 53.32
MW16S	COF_MW16#S		X	GSP	103						21615550			
MW16D	COF_MW16#D		X	GSP	103						21629306			
MW17S	COF_MW17#S	X		North	000	5/30/23	1404	6.41					JR	
MW17D	COF_MW17#D	X		North	000	5/30/23	1402	13.33					JR	
MW20S	COF_MW20#S		X	RP	104						21615518			
R104	COF_R104		X	LF	105						21615124			
R201	COF_R201		X	GSP	103						21615118			
R205	COF_R205		X	GSP	103						21615633			
T127	COF_T127	X		LF	105	5/30/23	1356	14.56					JD	
T128	COF_T128	X		LF	105	5/30/23	1354	14.26					JD	
T202	COF_T202	X		GSP	103	5/30/23	1510	5.80					JD	

SAR-3: Depth to Groundwater Measurements

Plant: COF

Event: COF-23Q2 Rev 1

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Well	Unique ID	Episodic	Transducer	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	Notes
									WL from HOBOnnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		
T408	COF_T408	X		AP2	102	5/30/23	1618	7.42					AP	Start note with relevant well ID
T409	COF_T409	X		AP2	102	5/30/23	1442	11.27					AP	TD 28.85
TA31	COF_TA31	X		LF	105	5/30/23	1431	7.06					KL	TD 30.06
TA33	COF_TA33	X		LF	105	5/30/23	1430	8.42					JR	TD 22.75
TA34	COF_TA34	X		LF	105	5/30/23	1410	9.48					JD	TD 18.70
TR32	COF_TR32	X		LF	105	5/30/23	1440	6.18					JR	
X201	COF_X201_leachate		X	RP	104						21024091			
XPW01	COF_XPW01_pore		X	AP1	101						21615536			
XPW02	COF_XPW02_pore		X	AP1	101						21615507			
NE Riser	COF_XRISER_NE_leachate		X	GSP	103						21048333			
XSG-01	COF_XSG-01	X		AP1	101	5/30/23	1432	5.45					AP	
SG-02	COF_YSG02	X		AP1	101	5/30/23	1525	7.47					AP	
SG-03	COF_YSG03	X		AP1	101	5/30/23	1347	9.85					AP	
SG-04	COF_YSG04	X		AP2	102	5/30/23	1612	6.41					AP	

IU:GKJ 5/3/231

Coffeen

WELL/SAMPLE POINT **G281**

Purge Method: Desicorlet & Blender pump

Date: 6/8/2023 Start Time: 1220 Finish/Sample Time: 1348

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 2.42 ft Total Purge Volume: 1500 Gal / L ⓪

Total Drawdown: 0.03 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1240	7.55	100	6.77	1360	18.44	10	0.96	40.0
2	1242	7.55	100	6.76	1360	18.38	11	1.00	39.3
3	1244	7.55	100	6.77	1350	18.42	11	0.95	35.6
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HOV16

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
3	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
4	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL
1	Ammonia (P, 250mL, H2SO4)
1	(P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000 mL
3	TOC (A,V, 40mL, H2SO4)
	In-Line Filters Used

Final DTW 2.45 FL

Comments Transducer S/N - 21629317 diss Iron¹² - 0.265 ppm
construction occurring near well

Sampler's Signature: [Signature]

Coffeen

WELL/SAMPLE POINT G301

Purge Method: Dedicated Pump

Date: 6/6/23 Start Time: 1527 Finish/Sample Time: 1638

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1500 Gal / L mL

Depth to Water From MP: 7.49 ft Total Purge Volume: 1800 Gal / L mL

Total Drawdown: 0.61 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1542	8.07	100	6.82	1334.3	18.20	-261.6	0.10	152.22
2	1543	8.07	100	6.81	1333.7	18.15	-260.2	0.10	145.68
3	1544	8.08	100	6.81	1334.8	18.10	-259.0	0.10	141.49
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatrill 600

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL IND 6/6
1	Ammonia
1	P2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P 1000 mL
3	TOC
0.202	Soluble Iron +2

1P^m

Final DTW = 8.10

Comments Transducer wouldn't connect. Replaced batteries.

Sampler's Signature: [Signature]

Coffeen

WELL/SAMPLE POINT **G302**

Purge Method: Dedicated pump

Date: 5/31/23 Start Time: 1356 Finish/Sample Time: 1600

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 2000 Gal / L 2L

Depth to Water From MP: 11.18 ft Total Purge Volume: 2400 Gal / L 2L

Total Drawdown: 0.46 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1411	11.56	100	7.03	1604.7	17.56	-85.4	2.61	125.92
2	1413	11.55	100	7.03	1612.9	17.59	-81.5	2.61	124.88
3	1414	11.56	100	7.03	1602.5	17.61	-79.9	2.63	130.56
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 600

Sample Appearance:

Odor: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3 + 3 dup	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1 + 1 dup	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1 + 1 dup	General (P, 250mL) 1000 mL Jan 5/31
1 + 1 dup	P 2.5L HNO3
1 + 1 dup	Ammonia

Filtered	
Qty	Bottles
1 + 1 dup	Metals (P,250mL, HNO3)
1 + 1 dup	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3 + 3 dup	TOC
1 + 1 dup	General P 1000 mL
1	Filter used
0.605 ppm	Soluble Iron +2

Final DTW = 11.64

Comments: dup collected

Sampler's Signature: [Signature]

Coffeen

WELL/SAMPLE POINT G303

Purge Method: Dedicated pump

Date: 5/31/23 Start Time: 1607 Finish/Sample Time: 1723

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 2000 Gal / L ~L

Depth to Water From MP: 6.18 ft Total Purge Volume: 2300 Gal / L ~L

Total Drawdown: 1.08 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1627	6.90	100	7.13	2322.0	17.79	-63.5	1.31	41.80
2	1629	6.92	100	7.13	2267.6	17.83	-67.4	1.34	39.45
3	1630	6.95	100	7.14	2301.5	17.85	-70.2	1.32	40.59
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aqua roll 600

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL JHD 5/31
1	Ammonia
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
3	TOC
1	General P 1000mL
1.117ppm	Soluble Iron ¹²
1	Filter used

Final DTW = 7.26

Comments

Sampler's Signature: [Signature]

Coffeen

WELL/SAMPLE POINT **G305**

Purge Method: Dedicated pump

Date: 6/6/23 Start Time: 0845 Finish/Sample Time: 0958

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1500 Gal / L (mL)

Depth to Water From MP: 8.25 ft Total Purge Volume: 1800 Gal / L (mL)

Total Drawdown: 0.05 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	0900	8.30	100	7.34	1917.1	15.72	-33.1	1.40	397.33
2	0901	8.30	100	7.35	1942.3	15.77	-29.5	1.41	380.18
3	0903	8.30	100	7.35	1921.2	15.76	-26.5	1.46	369.12
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatrail 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
	Ammonia
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P 1000 mL
3	TOC
0.000 ppm	Soluble Iron ¹²

Final DTW: 8.30

Comments

Sampler's Signature: [Signature]

Coffeen

WELL/SAMPLE POINT **G306**

Purge Method: Dedicated pump

Date: 6/5/23 Start Time: 1430 Finish/Sample Time: 1543

Well Depth (Bottom) From MP: _____ ft
Depth to Water From MP: 9.15 ft
Min. Purge Volume: 1500 Gal / L (2)
Total Purge Volume: 1800 Gal / L (2)

Total Drawdown: 0.87 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1445	9.92	100	6.89	949.03	16.86	114.1	2.02	299.59
2	1446	9.93	100	6.88	977.70	16.88	114.6	2.00	290.21
3	1447	9.94	100	6.88	952.56	16.85	115.1	1.97	280.28
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL 5/5
1	Ammonia
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P 1000 mL
3	TOC
0.111	Soluble Iron r2

ppm

Final DTW = 10.02

Comments

Sampler's Signature: [Signature]

Coffeen

WELL/SAMPLE POINT **G307**

Purge Method: Dedicated pump

Date: 6/5/23 Start Time: 1155 Finish/Sample Time: 1305

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1500 Gal / L AD

Depth to Water From MP: 0.07 ft Total Purge Volume: 1900 Gal / L AD

Total Drawdown: 0.47 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1210	0.53	100	7.36	1337.3	17.05	38.1	0.16	86.38
2	1211	0.53	100	7.30	1336.7	17.03	39.1	0.15	81.12
3	1212	0.54	100	7.29	1337.3	17.02	40.1	0.14	75.86
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aqua roll 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign		☒
Casing locked/secure		☒
Well cap fits securely.		☒
Good seal/drainage	☒	
Well has weep holes	☒	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000 mL 3nd 6/5
1	Ammonia
1	P 2.5 L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General 1000mL
3	TOC
0.000 ppm	Soluble Iron ⁺²

Final DTW = 0.54

Comments

Sampler's Signature: [Signature]

Coffeen

WELL/SAMPLE POINT **G307D**

Purge Method: Dedicated Pump

Date: 6/5/23 Start Time: 1307 Finish/Sample Time: 1420

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1500 Gal / L (6L)

Depth to Water From MP: 2.65 ft Total Purge Volume: 1900 Gal / L (6L)

Total Drawdown: 11.12 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1322	5.16	100	7.32	1517.9	19.24	-40.6	1.24	250.81
2	1323	5.30	100	7.32	1550.2	19.25	-40.9	1.25	257.13
3	1325	5.52	100	7.32	1549.2	19.20	-40.5	1.26	268.09
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aqua Troll 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL 3456/5
1	Ammonia
1	P 2.5 L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P 1000 mL
1	Tal
0.216	Soluble Iron ^{ppm}

Final DTU = 13.77

Comments

Sampler's Signature: [Signature]

Coffeen

WELL/SAMPLE POINT **G308**

Purge Method: Dedicated pump

Date: 6/1/23 Start Time: 1440

Finish/Sample Time: 1552

Well Depth (Bottom) From MP: _____ ft

Min. Purge Volume: 1500 Gal/L ml

Depth to Water From MP: 5165 ft

Total Purge Volume: 1800 Gal/L ml

Total Drawdown: 0.35 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1455	5.92	100	7.35	2105.8	16.81	101.8	0.93	60.81
2	1456	5.92	100	7.34	2116.3	16.77	99.4	0.88	59.74
3	1458	5.92	100	7.34	2114.5	16.83	98.2	0.90	56.52
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Agastrol 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL 3rd 6/1
1	Ammonia
1	P2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General 1000mL
3	TOC
0.085 ppm	Soluble Iron +2

Final DTW = 6.00

Comments

Sampler's Signature: James DW

Coffeen

WELL/SAMPLE POINT G312

Purge Method: Dedicated pump

Date: 6/1/23 Start Time: 1250 Finish/Sample Time: 1401

Well Depth (Bottom) From MP: _____ ft

Min. Purge Volume: 1500 Gal / L mL

Depth to Water From MP: 12.62 ft

Total Purge Volume: 1800 Gal / L mL

Total Drawdown: 0.53 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1305	12.95	100	6.48	1404.0	17.54	149.7	1.07	5.02
2	1307	12.95	100	6.48	1408.8	17.51	149.9	1.03	5.81
3	1308	12.95	100	6.48	1412.7	17.56	150.0	1.06	4.35
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatro II 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000 mL 5M G/I
1	Ammonia
1	P2.5 L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P 1000 mL
3	TOC
0.000 ppm	Soluble Iron 12

Final DTV = 13.15

Comments

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT **G313**

Purge Method: Dedicated pump

Date: 6/6/23 Start Time: 1315 Finish/Sample Time: 1515

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1500 Gal / L ml

Depth to Water From MP: 3.03 ft Total Purge Volume: 1800 Gal / L ml

Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1330	3.30	100	6.94	1926.4	18.20	39.5	0.80	247.17
2	1331	3.31	100	6.94	1953.7	18.25	38.4	0.77	230.59
3	1332	3.32	100	6.94	1971.3	18.31	38.2	0.81	236.07
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

AquaToll 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3 + 3 dup	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1 + 1 dup	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1 + 1 dup	General (P, 250 mL) <u>600 mL 306/6</u>
1 + 1 dup	<u>Ammonia</u>
1 + 1 dup	<u>P 2.5 L HNO3</u>

Filtered	
Qty	Bottles
1 + 1 dup	Metals (P,250mL, HNO3)
1 + 1 dup	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1 + 1 dup	<u>General P 1000 mL</u>
3 + 3 dup	<u>TOC</u>
0.099 ppm	<u>Soluble Iron +2</u>

Final DTW = 3.19

Comments Transducer wasn't connecting. Replaced batteries dup collected

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT **G314**

Purge Method: Dedicated pump

Date: 6/1/23 Start Time: 0939 Finish/Sample Time: 1047

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1500 Gal / L ML

Depth to Water From MP: 4.88 ft Total Purge Volume: 1800 Gal / L ML

Total Drawdown: 8.36 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	0953	6.61	100	6.78	3967.4	16.05	-9.6	0.73	11.21
2	0954	6.68	100	6.78	3960.4	16.08	-5.5	0.70	10.59
3	0955	6.80	100	6.78	3987.1	16.10	-4.4	0.68	11.03
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Australl 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	Ammonia
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P 1000 mL
3	TOC
4.013	Soluble Iron +2

ppm

Final DTW = 13.24

Comments

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT **G314D**

Purge Method: Dedicated pump

Date: 6/1/23 Start Time: 0823 Finish/Sample Time: 0938

Well Depth (Bottom) From MP: Pump ft Min. Purge Volume: 1500 Gal / L mL

Depth to Water From MP: 6.74 ft Total Purge Volume: 1900 Gal / L mL

Total Drawdown: 11.56 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	0838	8.94	100	7.12	3071.1	15.88	-5.3	0.41	635.12
2	0840	9.10	100	7.12	3065.2	15.85	-7.0	0.43	663.82
3	0841	9.41	100	7.12	3071.0	15.	-8.3	0.45	653.80
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aqua Troll 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL 3rd 6/1
1	Ammonia
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P 1000 mL
3	TOC
0.421	Soluble Iron P2

ppm

Final DTW = 18.30

Comments

Sampler's Signature: [Signature]

Coffeen

WELL/SAMPLE POINT G315

Purge Method: Dedicated pump

Date: 6/7/23 Start Time: 0850 Finish/Sample Time: 1002

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1500 Gal / L (2)

Depth to Water From MP: 3.60 ft Total Purge Volume: 1800 Gal / L (2)

Total Drawdown: 0.27 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	0905	3.83	100	6.88	1495.9	14.45	142.2	0.66	124.06
2	0906	3.83	100	6.88	1492.9	14.46	141.4	0.69	120.53
3	0907	3.83	100	6.88	1491.2	14.44	140.5	0.72	114.70
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatrail 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P,250mL) low mL 30617
1	Ammonia
1	P2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P 1000 mL
3	TOC
0.000 ppm	Soluble Iron ²⁺

Final DTW = 3.87

Comments Transducer would not connect. Replaced batteries.

Sampler's Signature: [Signature]

Coffeen

WELL/SAMPLE POINT G316

Purge Method: Dedicated pump

Date: 5/31/23 Start Time: 0911 Finish/Sample Time: 1033

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 2000 Gal/L (mL)

Depth to Water From MP: 12.23 ft Total Purge Volume: 2500 Gal/L (mL)

Total Drawdown: 0.44 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	0932	12.57	100	7.19	2216.8	14.53	-93.3	1.07	74.01
2	0933	12.58	100	7.19	2219.2	14.48	-94.7	1.00	74.77
3	0935	12.59	100	7.19	2220.6	14.49	-94.3	0.95	65.44
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aqua roll 600

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL 5mM 5/31
1	Ammonia
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
1	General (P, 250mL) 1000mL 5mM 5/31
3	TOC
1	Filter used

Final DTW = 12.67

sol Fe²⁺ 0.609 ppm

Comments

Sampler's Signature: [Signature]

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed			Location:	Coffeen Power				
Weather:	74-85° partly cloudy			Environment:	gravel/grass				
Multiparameter Water Meter	Make:	Horiba	Model:	U5000	Serial Number:	U4U1FVTF			
Water Level Meter	Make:	Solinst	Model:	101	Serial Number:	P7/LM2			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	2.0	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2050	µS/cm	±5%	P	N		Geotech	2GE1442	May-23
ORP	224	mV	±15 mV	P	N		InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	99.1	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.50	NTU	<2 NTU	P	N	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)

Time: 900

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	Mar-24
pH 7.00b	6.97	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24
pH 10.00b	9.98	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24
SC 1000	990	µS/cm	±5%	P	N	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time: 1549

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.02	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC 1000	1010	µS/cm	±5%	P	N		Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Joseph R Reed	Date:	5/31/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel: JD				Location: Vista Coffee					
Weather: 70-86°F, sunny with S 7-14				Environment: grass, weeds					
Multiparameter Water Meter		Make: Aquatech	Model: 600	Serial Number: 762215					
Water Level Meter		Make: Heron	Model: Dipper-T	Serial Number: 11FF2209305ML					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	pass	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.07	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	10.89	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2089.2	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	222.4	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.03	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.78	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.04	s.u.	±0.15 s.u.	pass	NA	Geotech	2GE870	Mar-24	
pH 7.00b	6.95	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24	
pH 10.00b	9.94	s.u.	±0.15 s.u.			Geotech	2GE820	May-24	
SC 1000	1042.5	µS/cm	±5%			Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1650				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	pass	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.08	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1040.6	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: 	Date: 5/31/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Pemberton</i>				Location: <i>Coffeen</i>					
Weather: <i>77°-87° sunny with a little</i>				Environment: <i>grass, dirt, dust</i>					
Multiparameter Water Meter		Make: <i>Horiba</i>	Model: <i>U5000</i>	Serial Number: <i>PW264503</i>					
Water Level Meter		Make: <i>Horan</i>	Model: <i>Dipper</i>	Serial Number: <i>3217-7</i>					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>No</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>6.91</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>No</i>	<i>N/A</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>9.94</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>No</i>	<i>N/A</i>	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>No</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2060</i>	µS/cm	±5%	<i>P</i>	<i>No</i>	<i>N/A</i>	Geotech	2GE1442	May-23
ORP	<i>220</i>	mV	±15 mV	<i>P</i>	<i>No</i>	<i>N/A</i>	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.08</i>	mg/L	±0.1	<i>P</i>	<i>No</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.8</i>	%	97-100%	<i>P</i>	<i>No</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>No</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

22A @ 25°C

ICV (Initial Calibration Verification)					Time: <i>0430</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.97</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GE870	Mar-24	
pH 7.00b	<i>6.91</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GC931	Mar-24	
pH 10.00b	<i>10.00</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GE820	May-24	
SC 1000	<i>0.87</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>	Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>16:19</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>No</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>6.95</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>No</i>	<i>N/A</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>9.96</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>No</i>	<i>N/A</i>	MSI	M082-04	3/25/2024
SC 1000	<i>10.20</i>	µS/cm	±5%	<i>P</i>	<i>No</i>	<i>N/A</i>	Ricca	4207N97	Jul-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>No</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>No</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1700</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	L344-09	12/14/2023
7.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	L343-07	12/9/2023
10.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	M082-04	3/25/2024
SC 1000	<i>/</i>	µS/cm	±5%	<i>/</i>	<i>/</i>	<i>/</i>	Ricca	4207N97	Jul-24
DO (Zero pt)	<i>/</i>	mg/L	±0.1 mg/L	<i>/</i>	<i>/</i>	<i>/</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>/</i>	NTU	<2 NTU	<i>/</i>	<i>/</i>	<i>/</i>	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <i>[Signature]</i>	Date: <i>5/31/2023</i>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: Kyle Lane		Location: Coffeen Power	
Weather: 64° to 88°		Environment: Dry	
Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number: YL9KJ9H0
Water Level Meter	Make: Heron	Model: Water tape	Serial Number: 19 FF220431ML

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	23.39	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1970	µS/cm	±5%	P	NA	NA	Geotech	2GE1442	May-23
ORP	224	mV	±15 mV	P	NA	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	97.40	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 09:08	
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	OK	Geotech
pH 7.00b	7.00	s.u.	±0.15 s.u.	P	OK	Geotech
pH 10.00b	10.00	s.u.	±0.15 s.u.	P	OK	Geotech
SC 1000	10.10	µS/cm	±5%	P	OK	Ricca

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 12:00	
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
pH 4.00a		s.u.	±0.1 s.u.			
pH 7.00a		s.u.	±0.1 s.u.			
pH 10.00a		s.u.	±0.1 s.u.			
SC 1000		µS/cm	±5%			
DO (Zero pt)		mg/L	±0.1 mg/L			
Turbidity (DI)		NTU	<2 NTU			

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 13:09	
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4.00a	4.06	s.u.	±0.1 s.u.	P	NA	NA
7.00a	7.01	s.u.	±0.1 s.u.	P	NA	NA
10.00a	10.00	s.u.	±0.1 s.u.	P	NA	NA
SC 1000	1020	µS/cm	±5%	P	NA	NA
DO (Zero pt)	0.01	mg/L	±0.1 mg/L	P	NA	NA
Turbidity (DI)	NA	NTU	<2 NTU	NA	NA	NA

Comments: Turbidity Had Problems taking reads

Signature: [Signature]	Date: 5-31-2023
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Kyle Lam</u>				Location: <u>Coffeen Power</u>					
Weather: <u>85° Sunny</u>				Environment: <u>Dry</u>					
Multiparameter Water Meter		Make: <u>HORIBA</u>	Model: <u>V-5000</u>	Serial Number: <u>YL9KJ9HA</u>					
Water Level Meter		Make: <u>HERAN</u>	Model: <u>water tower</u>	Serial Number: <u>19FF2202/31ML</u>					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>9.95</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>20.55</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>19.60</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	<u>NA</u>	Geotech	2GE1442	May 23
ORP	<u>225</u>	mV	±15 mV	<u>P</u>	<u>NA</u>	<u>NA</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.04</u>	mg/L	±0.1	<u>P</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.60</u>	%	97-100%	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>11:40</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.94</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GE870	Mar-24	
pH 7.00b	<u>7.06</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>9.88</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GE820	May-24	
SC 1000	<u>9.80</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>NA</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.94</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	M082-04	3/25/2024
SC 1000	<u>10.10</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	<u>NA</u>	Ricca	4207N97	Jul-24
DO (Zero pt)	<u>0.01</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>16:24</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<u>3.94</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L344-09	12/14/2023
7.00a	<u>6.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L343-07	12/9/2023
10.00a	<u>10.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	M082-04	3/25/2024
SC 1000	<u>10.10</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	<u>NA</u>	Ricca	4207N97	Jul-24
DO (Zero pt)	<u>0.01</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Comments:

NA

Signature: <u>Nellen</u>	Date: <u>6-1-2023</u>
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2G120824
Exp. Nov 23
Lot 2118

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Aaron Pemberlon</u>				Location: <u>Coffeen</u>			
Weather: <u>71°-86° + sunny w/ wind</u> <u>SE at 4 mph</u>				Environment: <u>grassy</u>			
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>U5000</u>	Serial Number: <u>PV2645D3</u>			
Water Level Meter		Make: <u>Heron</u>	Model: <u>Digport</u>	Serial Number: <u>3717-7</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>9.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>13</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2090</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Geotech	2GE1442	May-23
ORP	<u>214</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>N/A</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>07.6</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

229 @ 25°C

ICV (Initial Calibration Verification)						Time: <u>0845</u>	
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Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>3.95</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	2GE870	Mar-24
pH 7.00b	<u>7.00</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	2GC931	Mar-24
pH 10.00b	<u>10.08</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	2GE820	May-24
SC 1000	<u>1030</u>	µS/cm	±5%	<u>P</u>	<u>N/A</u>	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>1600</u>	
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC 1000	<u>967</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Ricca	4207N97	Jul-24
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:	
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>[Signature]</u>	Date: <u>6/1/2023</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: JD				Location: V.stry Coffeen			
Weather: 72-88°F rising wind SE 8 mph				Environment: grass			
Multiparameter Water Meter		Make: Aquatroll	Model: 600	Serial Number: 762215			
Water Level Meter		Make: Heon	Model: Dipper-T	Serial Number: 11FF2209305ML			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.03	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	12.11	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2054.1	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	219.7	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.07	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.15	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: 0812		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.09	s.u.	±0.15 s.u.	pass	NA	Geotech	2GE870	Mar-24
pH 7.00b	6.98	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.93	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1038.0	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: 1618			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	±0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.10	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.09	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1044.1	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Date: 6/11/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel: Joe Reed		Location: Coffeen Power	
Weather: 72-88°F mostly sunny 8 mph wind		Environment: grass/gravel	
Multiparameter Water Meter	Make: Horiba	Model: U5000	Serial Number: U4U1FVTF
Water Level Meter	Make:	Model:	Serial Number:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	↑		MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	P	↑		MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	↑		MSI	M082-04	3/25/2024
SC Zero (DI)	1	µS/cm	0<25 µS/cm	P	↑		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%	P	↑		Geotech	2GE1442	May-23
ORP	221	mV	±15 mV	P	↑		InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1	P	↑		Macron	#000228049	8/26/2025
DO (Saturated)	99.7	%	97-100%	P	↑		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	↑		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: 833	
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Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	Mar-24
pH 7.00b	6.99	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24
pH 10.00b	10.00	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24
SC 1000	990	µS/cm	±5%	P	N	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:	
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1000	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:	
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: Joseph R Reed	Date: 6/1/23
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26X0810
NOV 23
24 7/15

Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Adrian Pemberton</i>				Location: <i>COFFEEN</i>			
Weather: <i>81°-83° Sunny Wind NE 10mph</i>				Environment: <i>grass, gravel, dirt</i>			
Multiparameter Water Meter		Make: <i>Hanba</i>	Model: <i>JS000</i>	Serial Number: <i>PW264503</i>			
Water Level Meter		Make: <i>Heron</i>	Model: <i>Dipper T</i>	Serial Number: <i>3717-7</i>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>0.00</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2000</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Geotech <i>36A</i>	2GE1442	<i>May 23 Jan 24</i>
ORP	<i>222</i>	mV	±15 mV	<i>P</i>	<i>NO</i>	<i>N/A</i>	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	<i>P</i>	<i>NO</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>10.24</i>	%	97-100%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <i>1150</i>	<i>230 @ 26°C</i>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>4.02</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GE870	Mar-24	
pH 7.00b	<i>6.90</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GC931	Mar-24	
pH 10.00b	<i>10.03</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GE820	May-24	
SC 1000	<i>098</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>	Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>1721</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>6.99</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.04</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	M082-04	3/25/2024
SC 1000	<i>1010</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Ricca	4207N97	Jul-24
DO (Zero pt)	<i>0.04</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>NO</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <i>[Signature]</i>	Date: <i>6/9/2023</i>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: SD				Location: Vista Coffee			
Weather: 81-85°F Hazy sunny wind NE 10 mph				Environment: grass			
Multiparameter Water Meter		Make: Aquatro	Model: 600	Serial Number: 762215			
Water Level Meter		Make: Heron	Model: D.Aper-T	Serial Number: 11FF2209305 ML			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	pass	N	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.09	s.u.	±0.1 s.u.	pass	N	NA	MSI	L343-07	12/9/2023
pH 10.00a	10.08	s.u.	±0.1 s.u.	pass	N	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	10.66	µS/cm	0<25 µS/cm	pass	N	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2072.1	µS/cm	±5%	pass	N	NA	Geotech	2GE1442	May-23
ORP	223.9	mV	±15 mV	pass	N	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	0.67	mg/L	±0.1	pass	N	NA	Macron	#000228049	8/26/2025
DO (Saturated)	99.78	%	97-100%	pass	N	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	pass	N	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.09	s.u.	±0.15 s.u.	pass	NA	Geotech	2GE870	Mar-24	
pH 7.00b	6.96	s.u.	±0.15 s.u.	pass	NA	Geotech	2GC931	Mar-24	
pH 10.00b	9.97	s.u.	±0.15 s.u.	pass	NA	Geotech	2GE820	May-24	
SC 1000	1025.1	µS/cm	±5%	pass	NA	Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	±0.1 s.u.	pass	N	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.10	s.u.	±0.1 s.u.	pass	N	NA	MSI	L343-07	12/9/2023
pH 10.00a	10.09	s.u.	±0.1 s.u.	pass	N	NA	MSI	M082-04	3/25/2024
SC 1000	1037.1	µS/cm	±5%	pass	N	NA	Ricca	4207N97	Jul-24
DO (Zero pt)	0.08	mg/L	±0.1 mg/L	pass	N	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU	pass	N	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: 	Date: 6/5/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	J Reed			Location:	Coffeeen Power				
Weather:	65-86°F sunny wind 3-6 mph			Environment:	Gravel Road				
Multiparameter Water Meter	Make:	Horiba	Model:	U5000	Serial Number:	YL9KJ9HA			
Water Level Meter	Make:	Solinst	Model:	101	Serial Number:	33459			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%	P	N		Geotech	2GE1442	May-23
ORP	230	mV	±15 mV	P	N		InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	99.2	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	Mar-24	
pH 7.00b	7.02	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24	
pH 10.00b	9.98	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24	
SC 1000	1010	µS/cm	±5%	P	N	Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC 1000	1020	µS/cm	±5%	P	N		Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	J Reed	Date:	6/6/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel: Kyle Lane				Location: Coffeen Power			
Weather: 64° to 86° Sunny				Environment: Dry			
Multiparameter Water Meter		Make: Horiba	Model: J-500	Serial Number: V4V1FVTF			
Water Level Meter		Make: Heron	Model: water tape	Serial Number: 19FF2202131ML			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	6.95	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
pH 10.00a	9.90	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	18.00	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2030	µS/cm	±5%	P	NA	NA	Geotech	2GE1442	May-23
ORP	254	mV	±15 mV	P	NA	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	97.60	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: 10:57			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.02	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	Mar-24	
pH 7.00b	7.04	s.u.	±0.15 s.u.	P	NA	Geotech	2GC931	Mar-24	
pH 10.00b	9.99	s.u.	±0.15 s.u.	P	NA	Geotech	2GE820	May-24	
SC 1000	990	µS/cm	±5%	P	NA	Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: NA			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: 16:53			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.01	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
7.00a	6.98	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
10.00a	9.94	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC 1000	1010	µS/cm	±5%	P	NA	NA	Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L	P	NA	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [Signature]	Date: 6-6-23
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2GK086
NOV. 23
WP 713

Multiparameter Meter Field Calibration Checklist

Field Personnel: JD			Location: Vista Coffeen		
Weather: 70-87°F mostly sunny wind N 5 mph			Environment: grass, reeds		
Multiparameter Water Meter	Make: Aquatrail	Model: 600	Serial Number: 762215		
Water Level Meter	Make: Heron	Model: Dipper-T	Serial Number: 11FF2209305ML		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	pass	Yes	4.00	MSI	L344-09	12/14/2023
pH 7.00a	7.11	s.u.	±0.1 s.u.	fail	Yes	7.01	MSI	L343-07	12/9/2023
pH 10.00a	10.12	s.u.	±0.1 s.u.	fail	Yes	10.02	MSI	M082-04	3/25/2024
SC Zero (DI)	9.91	µS/cm	0<25 µS/cm	pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2046.9	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	224.7	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.07	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.55	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: 0825			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.01	s.u.	±0.15 s.u.	pass	NA	Geotech	2GE870	Mar-24	
pH 7.00b	6.86	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24	
pH 10.00b	9.86	s.u.	±0.15 s.u.			Geotech	2GE820	May-24	
SC 1000	1031.0	µS/cm	±5%			Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: 1614			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	pass	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.07	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1043.5	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.10	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.21	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [Signature]	Date: 6/6/23
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370 616

Lot #
2GK086
Exp. Nov/23

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Aaron Pemberlon</u>				Location: <u>COFFEEN</u>			
Weather: <u>73° & 86° Sunny</u> <u>Wind NW High</u>				Environment: <u>Open, grassy field</u>			
Multiparameter Water Meter		Make: <u>HORIBA</u>	Model: <u>U5000</u>	Serial Number: <u>PW2657603</u>			
Water Level Meter		Make: <u>Heron</u>	Model: <u>D:100-T</u>	Serial Number: <u>3717-7</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.94</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>NO</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.00</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.06</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1460</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Geotech	2GE1442	May-23
ORP	<u>229</u>	mV	±15 mV	<u>I</u>	<u>I</u>	<u>I</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>100.0</u>	%	97-100%	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>0900</u>		237 @ 19°C	
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#		
pH 4.00b	<u>4.00</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>N/A</u>	Geotech	2GE870	Mar-24	
pH 7.00b	<u>6.89</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>9.95</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	2GE820	May-24	
SC 1000	<u>980</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>16.48</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer		
pH 4.00a	<u>4.06</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>NO</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.08</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	M082-04	3/25/2024
SC 1000	<u>989</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Ricca	4207N97	Jul-24
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1 mg/L	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>[Signature]</u>	Date: <u>6/6/2023</u>
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2GL086
Nov 23
DA 717

Multiparameter Meter Field Calibration Checklist

Field Personnel: Kyle Lane				Location: Coffeen Power			
Weather: 8P CLOUDY				Environment: Dry			
Multiparameter Water Meter		Make: HORIBA	Model: U-5000	Serial Number: V4V1FVTF			
Water Level Meter		Make: Heron	Model: water tape	Serial Number: 19FF2202131M			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	6.92	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
pH 10.00a	9.992	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	19.20	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	19.70	µS/cm	±5%	P	NA	NA	Geotech	2GE1442	May-23
ORP	214	mV	±15 mV	P	NA	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	98.30	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: 08.30		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	Mar-24
pH 7.00b	7.00	s.u.	±0.15 s.u.	P	NA	Geotech	2GC931	Mar-24
pH 10.00b	9.88	s.u.	±0.15 s.u.	P	NA	Geotech	2GE820	May-24
SC 1000	9.80	µS/cm	±5%	P	NA	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: NA			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	L344-09	12/14/2023
pH 7.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	L343-07	12/9/2023
pH 10.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	M082-04	3/25/2024
SC 1000	/	µS/cm	±5%	/	/	/	Ricca	4207N97	Jul-24
DO (Zero pt)	/	mg/L	±0.1 mg/L	/	/	/	Macron	#000228049	8/26/2025
Turbidity (DI)	/	NTU	<2 NTU	/	/	/	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: 14.06			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	3.89	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
7.00a	6.97	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
10.00a	9.98	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC 1000	10.30	µS/cm	±5%	P	NA	NA	Ricca	4207N97	Jul-24
DO (Zero pt)	0.06	mg/L	±0.1 mg/L	P	NA	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [Signature]	Date: 6-7-2023
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Multiparameter Meter Field Calibration Checklist

Field Personnel: JD				Location: Vista Coffeen			
Weather: 66-78°F cloudy wind NE 8 mph				Environment: grass, reeds			
Multiparameter Water Meter		Make: Aquatroll	Model: 600	Serial Number: 762215			
Water Level Meter		Make: Heron	Model: Diaper-T	Serial Number: 11FF2209305ML			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	pass	No	NA	MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.	pass	No	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	9.72	µS/cm	0<25 µS/cm	pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2086.4	µS/cm	±5%	pass	No	NA	Geotech	2GE1442	May-23
ORP	226.1	mV	±15 mV	pass	No	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1	pass	No	NA	Macron	#000228049	8/26/2025
DO (Saturated)	98.09	%	97-100%	pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: 0825			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.04	s.u.	±0.15 s.u.	pass	NA	Geotech	2GE870	Mar-24	
pH 7.00b	6.90	s.u.	±0.15 s.u.	pass	NA	Geotech	2GC931	Mar-24	
pH 10.00b	9.86	s.u.	±0.15 s.u.	pass	NA	Geotech	2GE820	May-24	
SC 1000	992.0	µS/cm	±5%	pass	NA	Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: 1722			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.	pass	No	NA	MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.	pass	No	NA	MSI	M082-04	3/25/2024
SC 1000	1026.9	µS/cm	±5%	pass	No	NA	Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	pass	No	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU	pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: 	Date: 6/7/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Pemberton</i>				Location: <i>Coffeen</i>			
Weather: <i>64°-74° cloudy wind NE 5mph</i>				Environment: <i>grass, dirt</i>			
Multiparameter Water Meter		Make: <i>Horiba</i>	Model: <i>USC00</i>	Serial Number: <i>PW26YJ03</i>			
Water Level Meter		Make: <i>Heron</i>	Model: <i>Dipper-T</i>	Serial Number: <i>3717-7</i>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>3.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>		MSI	L344-09	12/14/2023
pH 7.00a	<i>7.68</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>YES</i>	<i>7.00</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.04</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>		MSI	M082-04	3/25/2024
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>NO</i>		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2040</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>		Geotech	2GE1442	May-23
ORP	<i>220</i>	mV	±15 mV	<i>P</i>	<i>NO</i>		InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.04</i>	mg/L	±0.1	<i>P</i>	<i>NO</i>		Macron	#000228049	8/26/2025
DO (Saturated)	<i>99.3</i>	%	97-100%	<i>P</i>	<i>NO</i>		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>1.3</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

230 @ 24°C

ICV (Initial Calibration Verification)						Time: <i>0840</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>4.02</i>	s.u.	±0.15 s.u.	<i>P</i>		Geotech	2GE870	Mar-24	
pH 7.00b	<i>7.08</i>	s.u.	±0.15 s.u.	<i>P</i>		Geotech	2GC931	Mar-24	
pH 10.00b	<i>10.10</i>	s.u.	±0.15 s.u.	<i>P</i>		Geotech	2GE820	May-24	
SC 1000	<i>989</i>	µS/cm	±5%	<i>P</i>		Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>1530 1730</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.07</i>	s.u.	±0.1 s.u.	<i>P</i>			MSI	L343-07	12/9/2023
pH 10.00a	<i>10.09</i>	s.u.	±0.1 s.u.	<i>P</i>			MSI	M082-04	3/25/2024
SC 1000	<i>1030</i>	µS/cm	±5%	<i>P</i>			Ricca	4207N97	Jul-24
DO (Zero pt)	<i>0.04</i>	mg/L	±0.1 mg/L	<i>P</i>			Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	<i>6/7/2023</i>
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*2GK086
Nov. 23
713*

Multiparameter Meter Field Calibration Checklist

Field Personnel: JD				Location: Vista Coffee					
Weather: 59-78° F hazy sun wind NNE 8-mph				Environment: grass					
Multiparameter Water Meter		Make: Aquatrail	Model: 600	Serial Number: 762215					
Water Level Meter		Make: Heron	Model: Dipper-T	Serial Number: 11FF2209305ML					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	Pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.	Pass	No	NA	MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.	Pass	No	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	4.34	µS/cm	0<25 µS/cm	Pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2033.8	µS/cm	±5%	Pass	No	NA	Geotech	2GE1442	May-23
ORP	230.7	mV	±15 mV	Pass	No	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1	Pass	No	NA	Macron	#000228049	8/26/2025
DO (Saturated)	99.39	%	97-100%	Pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	Pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: 0748			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.02	s.u.	±0.15 s.u.	Pass	NA	Geotech	2GE870	Mar-24	
pH 7.00b	6.89	s.u.	±0.15 s.u.	Pass	NA	Geotech	2GC931	Mar-24	
pH 10.00b	9.87	s.u.	±0.15 s.u.	Pass	NA	Geotech	2GE820	May-24	
SC 1000	1028.9	µS/cm	±5%	Pass	NA	Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: 1635			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	±0.1 s.u.	Pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.05	s.u.	±0.1 s.u.	Pass	No	NA	MSI	L343-07	12/9/2023
pH 10.00a	10.04	s.u.	±0.1 s.u.	Pass	No	NA	MSI	M082-04	3/25/2024
SC 1000	1037.6	µS/cm	±5%	Pass	No	NA	Ricca	4207N97	Jul-24
DO (Zero pt)	0.10	mg/L	±0.1 mg/L	Pass	No	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0.34	NTU	<2 NTU	Pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [Signature]	Date: 6/18/23
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Lot #
26K086
Exp Nov/23
575 618

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Arron Pamberla</u>				Location: <u>Coffeen</u>			
Weather: <u>58°-78° Sunny</u> <u>Wind NE at 6 mph</u>				Environment: <u>grass & soil</u>			
Multiparameter Water Meter		Make: <u>HORIBA</u>	Model: <u>VS000</u>	Serial Number: <u>PJ26YJ03</u>			
Water Level Meter		Make: <u>Heron</u>	Model: <u>Diparty</u>	Serial Number: <u>3717-T</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>NA</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>NA</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.03</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>NA</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>0.00</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2000</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>NA</u>	Geotech	<u>2GE1442</u>	<u>May-23</u>
ORP	<u>232</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>NA</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>NA</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.8</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

24.2 @ 15°C

ICV (Initial Calibration Verification)						Time: <u>0800</u>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>3.92</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GE870	Mar-24
pH 7.00b	<u>6.86</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GC931	Mar-24
pH 10.00b	<u>10.00</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GE820	May-24
SC 1000	<u>993</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>1734</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>NA</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.03</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>NA</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.09</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>NA</u>	MSI	M082-04	3/25/2024
SC 1000	<u>999</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>NA</u>	Ricca	4207N97	Jul-24
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>NA</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>[Signature]</u>	Date: <u>6/8/2023</u>
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2GK086
Nov. 23
[initials]



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

August 17, 2023

Brian Voelker
Vistra - Coffeen
1500 Eastport Plaza Drive
Collinsville, IL 62234

Dear Brian Voelker:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Sincerely,

A handwritten signature in cursive script that reads 'Gail Schindler'.

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com



SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GF00183

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GF00247

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GF00917

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GF01342

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GF01733

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Work Order GF01900

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Sample: GF00183-01
Name: G302
Matrix: Ground Water - Grab

Sampled: 05/31/23 16:00
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.5	pCi/L			1	0.7	07/06/23 21:21		904.0 903.0
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Sample: GF00183-02
Name: G302 DUP
Matrix: Ground Water - Grab

Sampled: 05/31/23 16:00
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	2.46	pCi/L			1	0.673	07/06/23 21:21		904.0 903.0
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Sample: GF00183-03
Name: G303
Matrix: Ground Water - Grab

Sampled: 05/31/23 17:23
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.22	pCi/L			1	0.652	07/06/23 21:21		904.0 903.0
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Sample: GF00183-04
Name: G316
Matrix: Ground Water - Grab

Sampled: 05/31/23 10:33
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.81	pCi/L			1	0.544	07/06/23 21:21		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF00183-05
Name: G406
Matrix: Ground Water - Grab

Sampled: 05/31/23 16:45
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.262 U	pCi/L			1	0.778	07/06/23 21:21		904.0 903.0
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Sample: GF00183-06
Name: G406 DUP
Matrix: Ground Water - Grab

Sampled: 05/31/23 16:45
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.482 J	pCi/L			1	0.597	07/06/23 21:21		904.0 903.0
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Sample: GF00183-07
Name: G407
Matrix: Ground Water - Grab

Sampled: 05/31/23 14:09
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.792	pCi/L			1	0.589	07/10/23 16:46		904.0 903.0
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Sample: GF00183-08
Name: G410
Matrix: Ground Water - Grab

Sampled: 05/31/23 13:27
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	3.15	pCi/L			1	0.624	07/10/23 16:46		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF00183-09
Name: G411
Matrix: Ground Water - Grab

Sampled: 05/31/23 12:00
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.623 J	pCi/L			1	0.642	07/10/23 16:46		904.0 903.0
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Sample: GF00183-10
Name: G314D
Matrix: Ground Water - Grab

Sampled: 06/01/23 09:38
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	2.54	pCi/L			1	0.616	07/10/23 16:46		904.0 903.0
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Sample: GF00183-11
Name: G314
Matrix: Ground Water - Grab

Sampled: 06/01/23 10:47
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.924	pCi/L			1	0.483	07/10/23 16:46		904.0 903.0
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Sample: GF00183-12
Name: G218
Matrix: Ground Water - Grab

Sampled: 06/01/23 11:12
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.05	pCi/L			1	0.668	07/10/23 16:46		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF00183-13
Name: G310
Matrix: Ground Water - Grab

Sampled: 06/01/23 12:42
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.52	pCi/L			1	0.576	07/10/23 16:46		904.0 903.0
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Sample: GF00183-14
Name: G312
Matrix: Ground Water - Grab

Sampled: 06/01/23 14:01
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.845	pCi/L			1	0.543	07/10/23 16:46		904.0 903.0
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Sample: GF00183-15
Name: G279
Matrix: Ground Water - Grab

Sampled: 06/01/23 12:07
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.107 U	pCi/L			1	0.651	07/10/23 16:46		904.0 903.0
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Sample: GF00183-16
Name: G277
Matrix: Ground Water - Grab

Sampled: 06/01/23 10:27
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.05	pCi/L			1	0.526	07/10/23 16:46		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF00247-01
Name: G151
Matrix: Ground Water - Grab

Sampled: 06/01/23 14:34
Received: 06/02/23 07:00
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.268 U	pCi/L			1	0.724	07/06/23 21:21		904.0 903.0
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Sample: GF00247-02
Name: G215
Matrix: Ground Water - Grab

Sampled: 06/01/23 15:32
Received: 06/02/23 07:00
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.881	pCi/L			1	0.864	07/06/23 21:21		904.0 903.0
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Sample: GF00247-03
Name: G308
Matrix: Ground Water - Grab

Sampled: 06/01/23 15:52
Received: 06/02/23 07:00
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.481 J	pCi/L			1	0.73	07/06/23 21:21		904.0 903.0
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Sample: GF00917-01
Name: G276
Matrix: Ground Water - Grab

Sampled: 06/05/23 16:53
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.966	pCi/L			1	0.558	07/14/23 16:39		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF00917-02
Name: G273
Matrix: Ground Water - Grab

Sampled: 06/05/23 15:25
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.248 U	pCi/L			1	0.548	07/14/23 16:39		904.0 903.0
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Sample: GF00917-03
Name: G307
Matrix: Ground Water - Grab

Sampled: 06/05/23 13:05
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.528 J	pCi/L			1	0.539	07/14/23 16:39		904.0 903.0
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Sample: GF00917-04
Name: G307D
Matrix: Ground Water - Grab

Sampled: 06/05/23 14:20
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.02	pCi/L			1	0.72	07/14/23 16:39		904.0 903.0
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Sample: GF00917-05
Name: G306
Matrix: Ground Water - Grab

Sampled: 06/05/23 15:43
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.0900 U	pCi/L			1	0.569	07/14/23 16:39		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF00917-06
Name: G152
Matrix: Ground Water - Grab

Sampled: 06/06/23 10:43
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.513 J	pCi/L			1	0.983	07/14/23 21:08		904.0 903.0
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Sample: GF00917-07
Name: G153
Matrix: Ground Water - Grab

Sampled: 06/06/23 12:20
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.146 U	pCi/L			1	0.974	07/14/23 21:08		904.0 903.0
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Sample: GF00917-08
Name: G154
Matrix: Ground Water - Grab

Sampled: 06/06/23 13:45
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.993	pCi/L			1	0.752	07/14/23 21:08		904.0 903.0
Rad 226 -Subcontract	0.141 J	pCi/L			1	0.31	07/14/23 21:08		904.0 903.0
Rad 228- Subcontract	0.852	pCi/L			1	0.685	07/14/23 21:08		904.0 904.0

Sample: GF00917-09
Name: G271
Matrix: Ground Water - Grab

Sampled: 06/06/23 11:16
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	2.32	pCi/L			1	0.765	07/14/23 21:08		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF00917-10
Name: G305
Matrix: Ground Water - Grab

Sampled: 06/06/23 09:58
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.63	pCi/L			1	0.675	07/14/23 21:08		904.0 903.0
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Sample: GF00917-11
Name: G405
Matrix: Ground Water - Grab

Sampled: 06/06/23 13:07
Received: 06/06/23 17:25
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.68	pCi/L			1	0.972	07/14/23 21:08		904.0 903.0
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Sample: GF01342-01
Name: G301
Matrix: Ground Water - Grab

Sampled: 06/06/23 16:38
Received: 06/07/23 17:02
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.0829 U	pCi/L			1	0.97	07/14/23 16:39		904.0 903.0
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Sample: GF01342-02
Name: G313
Matrix: Ground Water - Grab

Sampled: 06/06/23 15:15
Received: 06/07/23 17:02
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.879	pCi/L			1	0.843	07/14/23 16:39		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF01342-03
Name: G313 DUP
Matrix: Ground Water - Grab

Sampled: 06/06/23 15:15
Received: 06/07/23 17:02
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.325 J	pCi/L			1	0.755	07/14/23 16:39		904.0 903.0
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Sample: GF01342-04
Name: G402
Matrix: Ground Water - Grab

Sampled: 06/06/23 16:05
Received: 06/07/23 17:02
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.22	pCi/L			1	0.723	07/14/23 16:39		904.0 903.0
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Sample: GF01342-05
Name: G315
Matrix: Ground Water - Grab

Sampled: 06/07/23 10:02
Received: 06/07/23 17:02
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.344 J	pCi/L			1	0.672	07/14/23 16:39		904.0 903.0
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Sample: GF01342-06
Name: G403
Matrix: Ground Water - Grab

Sampled: 06/07/23 11:25
Received: 06/07/23 17:02
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.91	pCi/L			1	0.644	07/14/23 16:39		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF01342-07
Name: G404
Matrix: Ground Water - Grab

Sampled: 06/07/23 12:51
Received: 06/07/23 17:02
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.36	pCi/L			1	0.514	07/14/23 16:39		904.0 903.0
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Sample: GF01342-08
Name: G1001
Matrix: Ground Water - Grab

Sampled: 06/07/23 10:24
Received: 06/07/23 17:02
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.917	pCi/L			1	0.744	07/14/23 16:39		904.0 903.0
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Sample: GF01342-09
Name: G401
Matrix: Ground Water - Grab

Sampled: 06/07/23 11:58
Received: 06/07/23 17:02
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.628 J	pCi/L			1	0.665	07/14/23 16:39		904.0 903.0
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Sample: GF01342-10
Name: G155
Matrix: Ground Water - Grab

Sampled: 06/07/23 10:08
Received: 06/07/23 17:02
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.3	pCi/L			1	1.08	07/14/23 16:39		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF01733-01
Name: G212
Matrix: Ground Water - Grab

Sampled: 06/07/23 15:35
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.194 U	pCi/L			1	0.838	07/13/23 20:53		904.0 903.0
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Sample: GF01733-02
Name: G213
Matrix: Ground Water - Grab

Sampled: 06/07/23 16:49
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.399 J	pCi/L			1	0.642	07/13/23 20:53		904.0 903.0
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Sample: GF01733-03
Name: G200
Matrix: Ground Water - Grab

Sampled: 06/07/23 17:23
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	4.48	pCi/L			1	0.893	07/13/23 20:53		904.0 903.0
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Sample: GF01733-04
Name: EB-01
Matrix: Ground Water - Equipment Blank

Sampled: 06/07/23 17:55
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.88	pCi/L			1	0.558	07/13/23 20:53		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF01733-05
Name: G275
Matrix: Ground Water - Grab

Sampled: 06/08/23 12:00
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.0751 U	pCi/L			1	0.749	07/13/23 20:53		904.0 903.0
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Sample: GF01733-06
Name: G275 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 06/08/23 12:00
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.0267 U	pCi/L			1	0.893	07/14/23 10:35		904.0 903.0
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Sample: GF01733-07
Name: G275D
Matrix: Ground Water - Grab

Sampled: 06/08/23 13:13
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.34	pCi/L			1	0.73	07/14/23 10:35		904.0 903.0
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Sample: GF01733-08
Name: G280
Matrix: Ground Water - Grab

Sampled: 06/08/23 09:25
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.839	pCi/L			1	0.764	07/14/23 10:35		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF01733-09
Name: G283
Matrix: Ground Water - Grab

Sampled: 06/08/23 14:32
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	2.88	pCi/L			1	0.791	07/14/23 10:35		904.0 903.0
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Sample: GF01733-10
Name: G285
Matrix: Ground Water - Grab

Sampled: 06/08/23 13:53
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	3.1	pCi/L			1	0.516	07/14/23 10:35		904.0 903.0
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Sample: GF01733-11
Name: G281
Matrix: Ground Water - Grab

Sampled: 06/08/23 13:48
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.000 U	pCi/L			1	0.769	07/14/23 10:35		904.0 903.0
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Sample: GF01733-12
Name: G270
Matrix: Ground Water - Grab

Sampled: 06/08/23 09:54
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.485 J	pCi/L			1	0.772	07/14/23 10:35		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF01733-13
Name: G284
Matrix: Ground Water - Grab

Sampled: 06/08/23 15:16
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.01	pCi/L			1	0.742	07/14/23 10:35		904.0 903.0
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Sample: GF01733-14
Name: G217
Matrix: Ground Water - Grab

Sampled: 06/08/23 16:56
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.574 J	pCi/L			1	0.778	07/14/23 10:35		904.0 903.0
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Sample: GF01733-15
Name: R201
Matrix: Ground Water - Grab

Sampled: 06/07/23 15:40
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.5	pCi/L			1	0.778	07/14/23 16:39		904.0 903.0
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Sample: GF01900-01
Name: G206
Matrix: Ground Water - Grab

Sampled: 06/09/23 13:20
Received: 06/09/23 16:14
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.227 U	pCi/L			1	0.656	07/14/23 16:39		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF01900-02
Name: G206 DUP
Matrix: Ground Water - Grab

Sampled: 06/09/23 13:20
Received: 06/09/23 16:14
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.79	pCi/L			1	0.704	07/14/23 16:39		904.0 903.0
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Sample: GF01900-03
Name: G206D
Matrix: Ground Water - Grab

Sampled: 06/09/23 12:29
Received: 06/09/23 16:14
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.701	pCi/L			1	0.591	07/14/23 16:39		904.0 903.0
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Sample: GF01900-04
Name: G209
Matrix: Ground Water - Grab

Sampled: 06/09/23 09:44
Received: 06/09/23 16:14
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.292 J	pCi/L			1	0.665	07/14/23 16:39		904.0 903.0
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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Gail Schindler, Project Manager

ANALYTICAL REPORT

July 13, 2023

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

Pace IR - Peoria, IL

Sample Delivery Group: L1623496
Samples Received: 06/07/2023
Project Number: GF00183
Description: Vistra-Coffeen
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence

Haley Torrence
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

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

Collected by
Collected date/time
Received date/time
05/31/23 16:00 06/07/23 09:00

G302 L1623496-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089290	1	07/05/23 13:39	07/06/23 21:21	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089290	1	07/05/23 13:39	07/06/23 21:21	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
05/31/23 16:00 06/07/23 09:00

G302 DUP L1623496-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089290	1	07/05/23 13:39	07/06/23 21:21	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089290	1	07/05/23 13:39	07/06/23 21:21	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
05/31/23 17:23 06/07/23 09:00

G303 L1623496-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089290	1	07/05/23 13:39	07/06/23 21:21	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089290	1	07/05/23 13:39	07/06/23 21:21	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
05/31/23 10:33 06/07/23 09:00

G316 L1623496-04 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089290	1	07/05/23 13:39	07/06/23 21:21	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089290	1	07/05/23 13:39	07/06/23 21:21	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
05/31/23 16:45 06/07/23 09:00

G406 L1623496-05 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089290	1	07/05/23 13:39	07/06/23 21:21	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089290	1	07/05/23 13:39	07/06/23 21:21	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
05/31/23 16:45 06/07/23 09:00

G406 DUP L1623496-06 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089290	1	07/05/23 13:39	07/06/23 21:21	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089290	1	07/05/23 13:39	07/06/23 21:21	RGT	Mt. Juliet, TN



Collected by
Collected date/time
Received date/time
05/31/23 14:09 06/07/23 09:00

G407 L1623496-07 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
05/31/23 13:27 06/07/23 09:00

G410 L1623496-08 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
05/31/23 12:00 06/07/23 09:00

G411 L1623496-09 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/01/23 09:38 06/07/23 09:00

G314D L1623496-10 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/01/23 10:47 06/07/23 09:00

G314 L1623496-11 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/01/23 11:12 06/07/23 09:00

G218 L1623496-12 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN



Collected by
Collected date/time
Received date/time
06/01/23 12:42
06/07/23 09:00

G310 L1623496-13 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN

¹Cp

²Tc

³Ss

Collected by
Collected date/time
Received date/time
06/01/23 14:01
06/07/23 09:00

G312 L1623496-14 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN

⁴Cn

⁵Sr

⁶Qc

Collected by
Collected date/time
Received date/time
06/01/23 12:07
06/07/23 09:00

G279 L1623496-15 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN

⁷Gl

⁸Al

⁹Sc

Collected by
Collected date/time
Received date/time
06/01/23 10:27
06/07/23 09:00

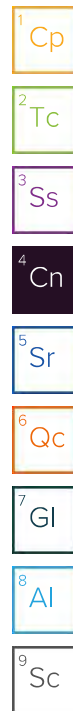
G277 L1623496-16 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089578	1	07/07/23 11:14	07/10/23 16:46	RGT	Mt. Juliet, TN

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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.



Haley Torrence
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.40		0.390	0.669	07/05/2023 21:27	WG2085377
(T) Barium	72.2			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	107			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.50		0.415	0.700	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.106	J	0.142	0.205	07/06/2023 21:21	WG2089290
(T) Barium-133	118			30.0-143	07/06/2023 21:21	WG2089290

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.19		0.374	0.613	07/05/2023 21:27	WG2085377
(T) Barium	71.4			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	114			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.46		0.442	0.673	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.272	J	0.235	0.278	07/06/2023 21:21	WG2089290
(T) Barium-133	106			30.0-143	07/06/2023 21:21	WG2089290

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.09		0.320	0.550	07/05/2023 21:27	WG2085377
(T) Barium	77.6			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	108			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.22		0.396	0.652	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.126	J	0.234	0.351	07/06/2023 21:21	WG2089290
(T) Barium-133	101			30.0-143	07/06/2023 21:21	WG2089290

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.49		0.284	0.467	07/05/2023 21:27	WG2085377
(T) Barium	80.1			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	111			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.81		0.376	0.544	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.327		0.247	0.279	07/06/2023 21:21	WG2089290
(T) Barium-133	102			30.0-143	07/06/2023 21:21	WG2089290

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.0457	U	0.397	0.719	07/05/2023 21:27	WG2085377
(T) Barium	75.3			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	110			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.262	U	0.457	0.778	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.217	J	0.226	0.298	07/06/2023 21:21	WG2089290
(T) Barium-133	99.9			30.0-143	07/06/2023 21:21	WG2089290

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.342	J	0.284	0.510	07/05/2023 21:27	WG2085377
(T) Barium	76.7			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	103			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.482	J	0.351	0.597	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.140	J	0.207	0.311	07/06/2023 21:21	WG2089290
(T) Barium-133	95.1			30.0-143	07/06/2023 21:21	WG2089290

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.734		0.318	0.558	07/05/2023 21:27	WG2085377
(T) Barium	82.0			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	101			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.792		0.336	0.589	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0575	U	0.109	0.190	07/10/2023 16:46	WG2089578
(T) Barium-133	80.0			30.0-143	07/10/2023 16:46	WG2089578

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.747		0.320	0.560	07/05/2023 21:27	WG2085377
(T) Barium	87.7			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	97.7			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.15		0.684	0.624	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.40		0.604	0.275	07/10/2023 16:46	WG2089578
(T) Barium-133	85.3			30.0-143	07/10/2023 16:46	WG2089578

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.498	U	0.299	0.561	07/05/2023 21:27	WG2085377
(T) Barium	81.9			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	118			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.623	J	0.465	0.642	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.623		0.356	0.313	07/10/2023 16:46	WG2089578
(T) Barium-133	74.2			30.0-143	07/10/2023 16:46	WG2089578

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.57		0.313	0.523	07/05/2023 21:27	WG2085377
(T) Barium	82.2			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	105			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.54		0.515	0.616	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.969		0.409	0.325	07/10/2023 16:46	WG2089578
(T) Barium-133	104			30.0-143	07/10/2023 16:46	WG2089578

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101
Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.609		0.247	0.432	07/05/2023 21:27	WG2085377
(T) Barium	88.3			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	107			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.924		0.336	0.483	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.315		0.228	0.217	07/10/2023 16:46	WG2089578
(T) Barium-133	106			30.0-143	07/10/2023 16:46	WG2089578

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.859		0.353	0.619	07/05/2023 21:27	WG2085377
(T) Barium	76.8			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	98.0			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.05		0.404	0.668	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.189	J	0.196	0.250	07/10/2023 16:46	WG2089578
(T) Barium-133	112			30.0-143	07/10/2023 16:46	WG2089578

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.698		0.288	0.505	07/05/2023 21:27	WG2085377
(T) Barium	82.7			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	114			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.52		0.457	0.576	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.822		0.355	0.277	07/10/2023 16:46	WG2089578
(T) Barium-133	105			30.0-143	07/10/2023 16:46	WG2089578

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.685		0.239	0.414	07/05/2023 21:27	WG2085377
(T) Barium	85.8			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	126			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.845		0.336	0.543	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.160	J	0.236	0.351	07/10/2023 16:46	WG2089578
(T) Barium-133	88.3			30.0-143	07/10/2023 16:46	WG2089578

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.144	U	0.314	0.576	07/05/2023 21:27	WG2085377
(T) Barium	86.3			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	109			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.107	U	0.370	0.651	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.107	U	0.195	0.303	07/10/2023 16:46	WG2089578
(T) Barium-133	97.0			30.0-143	07/10/2023 16:46	WG2089578

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.777		0.286	0.498	07/05/2023 21:27	WG2085377
(T) Barium	77.8			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	115			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.05		0.341	0.526	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.275		0.186	0.169	07/10/2023 16:46	WG2089578
(T) Barium-133	99.6			30.0-143	07/10/2023 16:46	WG2089578

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3946996-1 07/05/23 21:27

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.202	J	0.186	0.335
(T) Barium	84.2		84.2	
(T) Yttrium	106		106	

L1623496-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1623496-03 07/05/23 21:27 • (DUP) R3946996-5 07/05/23 21:27

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.09	0.320	0.550	1.05	0.420	0.550	1	4.30	0.0871		20	3
(T) Barium	77.6			93.1	93.1							
(T) Yttrium	108			107	107							

Laboratory Control Sample (LCS)

(LCS) R3946996-2 07/05/23 21:27

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.08	102	80.0-120	
(T) Barium		92.3			
(T) Yttrium		117			

L1623493-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1623493-01 07/05/23 21:27 • (MS) R3946996-3 07/05/23 21:27 • (MSD) R3946996-4 07/05/23 21:27

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.153	10.4	11.1	102	109	1	70.0-130		6.34		20
(T) Barium		75.2		90.8	90.8	87.9						
(T) Yttrium		109		109	109	110						

Method Blank (MB)

(MB) R3946774-1 07/06/23 21:21

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-226	-0.00437	U	0.0542	0.105
(T) Barium-133	77.4		77.4	

L1623471-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1623471-23 07/06/23 21:21 • (DUP) R3946774-5 07/06/23 21:21

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	1.73	0.526	0.274	0.0499	0.0948	0.274	1	189	3.14	J3 U	20	3
(T) Barium-133	84.8			99.6	99.6							

L1623471-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1623471-23 07/06/23 21:21 • (DUP) R3946774-6 07/07/23 23:34

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	1.73	0.526	0.274	0.0460	0.165	0.274	1	190	3.05	J3 U	20	3
(T) Barium-133	84.8			99.6	99.6							

Laboratory Control Sample (LCS)

(LCS) R3946774-2 07/06/23 21:21

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.08	81.5	80.0-120	
(T) Barium-133			88.5		

L1623471-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1623471-28 07/06/23 21:21 • (MS) R3946774-3 07/06/23 21:21 • (MSD) R3946774-4 07/06/23 21:21

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
um-226	20.0	0.469	16.8	17.9	81.6	87.0	1	75.0-125		6.23		20
(T) Barium-133		93.5		84.3	84.3	89.3						

Method Blank (MB)

(MB) R3947336-1 07/10/23 16:46

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	-0.0221	U	0.0292	0.0840
(T) Barium-133	88.1		88.1	

L1624825-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1624825-02 07/10/23 16:46 • (DUP) R3947336-5 07/10/23 16:46

Analyte	Original Result pCi/l	Original Uncertainty + / -	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.651	0.404	0.430	0.474	0.543	1	18.2	0.174	J	20	3
(T) Barium-133	75.9		44.1	44.1							

Laboratory Control Sample (LCS)

(LCS) R3947336-2 07/10/23 16:46

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.21	84.1	80.0-120	
(T) Barium-133		82.5			

L1623496-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1623496-07 07/10/23 16:46 • (MS) R3947336-3 07/10/23 16:46 • (MSD) R3947336-4 07/10/23 16:46

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0575	16.6	19.9	82.7	1	75.0-125		17.9		20
(T) Barium-133		80.0		93.0	93.0						

Guide to Reading and Understanding Your Laboratory Report

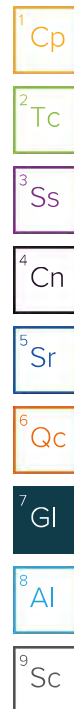
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
U	Below Detectable Limits: Indicates that the analyte was not detected.



APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

ACCREDITATIONS & LOCATIONS

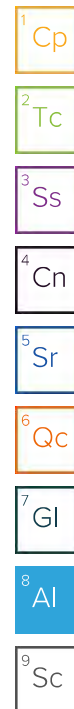
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Internal Transfer Chain of Custody

State of Origin: IL
Cert. Needed: ☒ YES ☐ NO



Workorder: GF00183 (Page 2)

Workorder Name: Vistra - Coffeen

Subcontract To:

Report To:
Gail Schindler
Pace Analytical - IL/MO
2231 W. Altorfer Drive
Peoria, IL 61615
800-752-6651

Pace Analytical - Mt Juliet
12065 Lebanon Rd
Mt Juliet TN 37122

Owner Received
Date: 6/1/2023

Results Required
By: 6/27/2023

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Date/Time	Received By	Date/Time	Comments
1	G314	GRAB	6/1/2023 10:47	GF00183-11	GW					
2	G218	GRAB	6/1/2023 11:12	GF00183-12	GW					
3	G310	GRAB	6/1/2023 12:42	GF00183-13	GW					
4	G312	GRAB	6/1/2023 14:01	GF00183-14	GW					
5	G279	GRAB	6/1/2023 12:07	GF00183-15	GW					
6	G277	GRAB	6/1/2023 10:27	GF00183-16	GW					
7										
8										
9										
10										
Transfers Released By: <i>[Signature]</i>										
1			6/16/23 12:30					Hankly Rotstein	6/16/23 0900	Needs reported as 226, 228 and also combined 226/228
2										Include QC summary and edd
3										

44623496

LAB USE ONLY
-11
-12
-13
-14
-15
-16

Cooler Temperature on Receipt: _____ °C
Custody Seal: Y or N
Received on Ice: Y or N
Sample Intact: Y or N
***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.



Ship to :
Pace Analytical - Mt Juliet
12065 Lebanon Rd
Mt Juliet TN 37122

INTER_LABORATORY WORK ORDER # GF00183

(To be complete by sending lab)

Sending Project No:	GF00183
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	6/6/2023
REQUESTED COMPLETION DATE:	6/27/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	Vistra - Coffeen
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? _____ Cert Needed: IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		16		16	\$229.30	\$3,668.80
		1		1	\$0.00	\$0.00
		1		1		\$0.00
TOTAL						\$3,668.80

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$3,668.80	\$2,935.04	\$733.76
* Custom Revenue Allocation		TOTAL	\$2,935.04	\$733.76

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☒ No

CONFIRMATION OF WORK COMPLETED

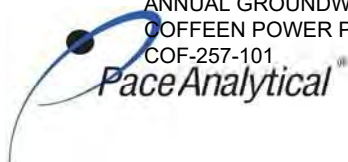
Date Completed: _____ Receiving Project Manager: _____

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

41623496

Tracking Numbers	NS AT Temperature
6319 5999 89160	20.7±0=20.7
6319 5999 8999	20.9±0=20.9
6319 5999 9002	22.9±0=22.9

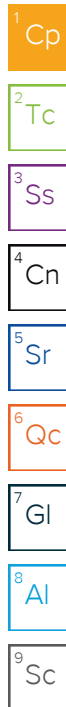


ANALYTICAL REPORT

July 13, 2023

Pace IR - Peoria, IL

Sample Delivery Group: L1623493
Samples Received: 06/07/2023
Project Number: GF00247
Description: Vistra-Coffeen
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

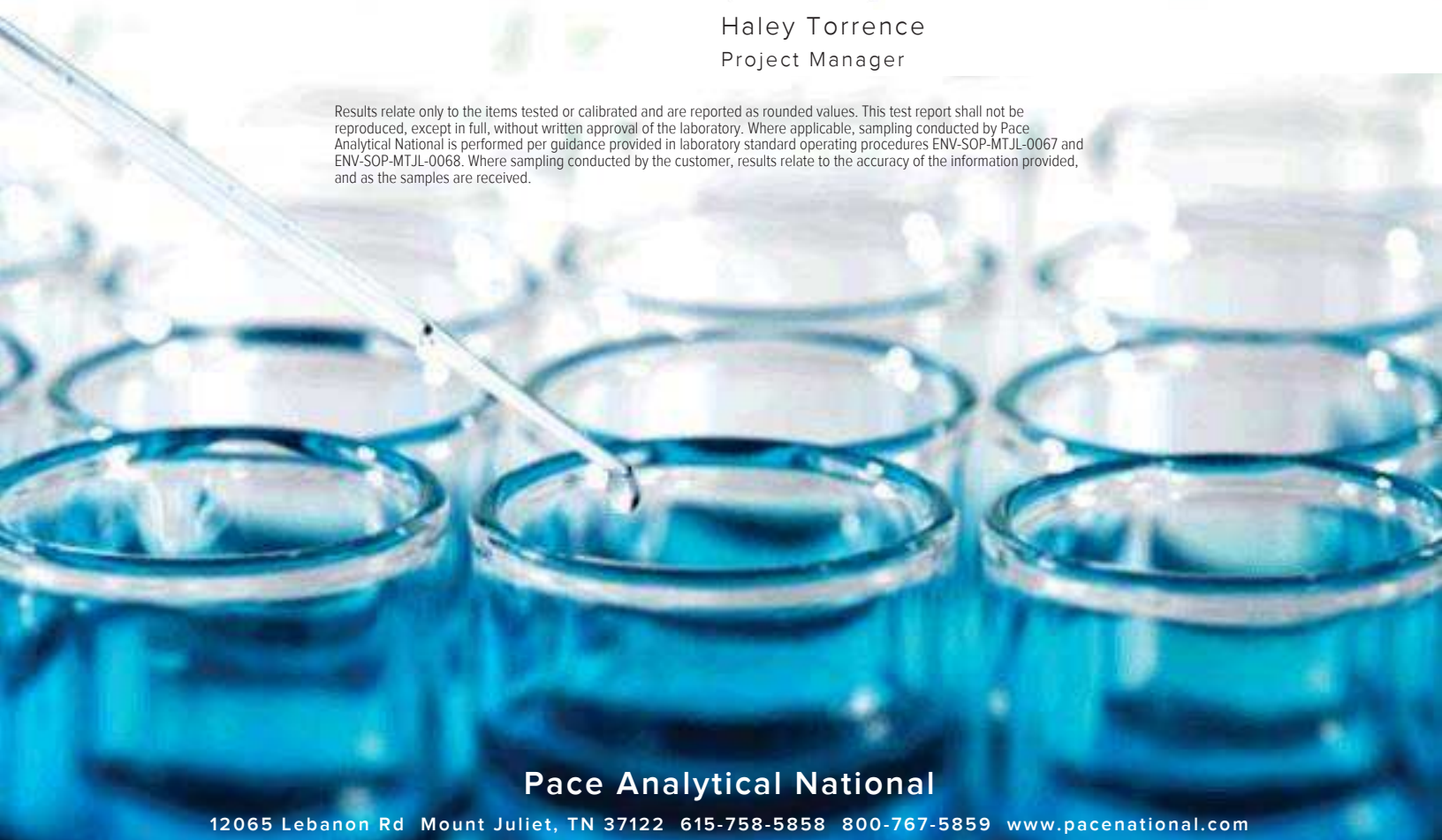


Entire Report Reviewed By:

A handwritten signature in blue ink that reads "Haley Torrence".

Haley Torrence
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

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Al: Accreditations & Locations	11	⁸ Al
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Collected by
Collected date/time
Received date/time
06/01/23 14:34 06/07/23 09:00

G151 L1623493-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089290	1	07/05/23 13:39	07/06/23 21:21	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089290	1	07/05/23 13:39	07/06/23 21:21	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/01/23 15:32 06/07/23 09:00

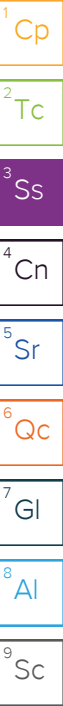
G215 L1623493-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089290	1	07/05/23 13:39	07/06/23 21:21	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089290	1	07/05/23 13:39	07/06/23 21:21	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/01/23 15:52 06/07/23 09:00

G308 L1623493-03 Non-Potable Water

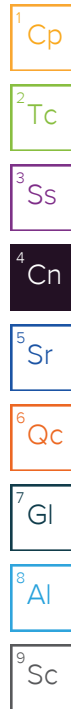
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2085377	1	06/29/23 16:49	07/05/23 21:27	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2089290	1	07/05/23 13:39	07/06/23 21:21	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2089290	1	07/05/23 13:39	07/06/23 21:21	RGT	Mt. Juliet, TN



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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.



Haley Torrence
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.153	U	0.390	0.704	07/05/2023 21:27	WG2085377
(T) Barium	75.2			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	109			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.268	U	0.411	0.724	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.115	J	0.131	0.169	07/06/2023 21:21	WG2089290
(T) Barium-133	106			30.0-143	07/06/2023 21:21	WG2089290

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101
Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.231	U	0.437	0.785	07/05/2023 21:27	WG2085377
(T) Barium	69.7			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	110			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.881		0.571	0.864	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.650		0.367	0.362	07/06/2023 21:21	WG2089290
(T) Barium-133	86.8			30.0-143	07/06/2023 21:21	WG2089290

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.195	U	0.354	0.637	07/05/2023 21:27	WG2085377
(T) Barium	83.1			30.0-143	07/05/2023 21:27	WG2085377
(T) Yttrium	104			30.0-136	07/05/2023 21:27	WG2085377

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.481	J	0.437	0.713	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.286	J	0.256	0.321	07/06/2023 21:21	WG2089290
(T) Barium-133	121			30.0-143	07/06/2023 21:21	WG2089290

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3946996-1 07/05/23 21:27

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.202	⬇	0.186	0.335
(T) Barium	84.2		84.2	
(T) Yttrium	106		106	

L1623496-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1623496-03 07/05/23 21:27 • (DUP) R3946996-5 07/05/23 21:27

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.09	0.320	0.550	1.05	0.420	0.550	1	4.30	0.0871		20	3
(T) Barium	77.6			93.1	93.1							
(T) Yttrium	108			107	107							

Laboratory Control Sample (LCS)

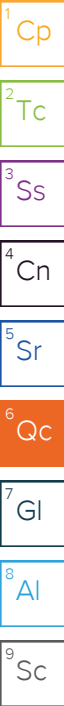
(LCS) R3946996-2 07/05/23 21:27

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.08	102	80.0-120	
(T) Barium			92.3		
(T) Yttrium			117		

L1623493-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1623493-01 07/05/23 21:27 • (MS) R3946996-3 07/05/23 21:27 • (MSD) R3946996-4 07/05/23 21:27

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.153	10.4	11.1	102	109	1	70.0-130			6.34		20
(T) Barium		75.2			90.8	87.9							
(T) Yttrium		109			109	110							



Method Blank (MB)

(MB) R3946774-1 07/06/23 21:21

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	-0.00437	<u>U</u>	0.0542	0.105
(T) Barium-133	77.4		77.4	

L1623471-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1623471-23 07/06/23 21:21 • (DUP) R3946774-5 07/06/23 21:21

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	1.73	0.526	0.274	0.0499	0.0948	0.274	1	189	3.14	<u>J3 U</u>	20	3
(T) Barium-133	84.8			99.6	99.6							

L1623471-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1623471-23 07/06/23 21:21 • (DUP) R3946774-6 07/07/23 23:34

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	1.73	0.526	0.274	0.0460	0.165	0.274	1	190	3.05	<u>J3 U</u>	20	3
(T) Barium-133	84.8			99.6	99.6							

Laboratory Control Sample (LCS)

(LCS) R3946774-2 07/06/23 21:21

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.08	81.5	80.0-120	
(T) Barium-133			88.5		

L1623471-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1623471-28 07/06/23 21:21 • (MS) R3946774-3 07/06/23 21:21 • (MSD) R3946774-4 07/06/23 21:21

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.469	16.8	17.9	81.6	87.0	1	75.0-125			6.23		20
(T) Barium-133		93.5			84.3	89.3							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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.

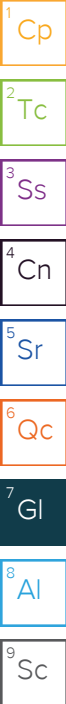
Abbreviations and Definitions

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

Qualifier

Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
U	Below Detectable Limits: Indicates that the analyte was not detected.



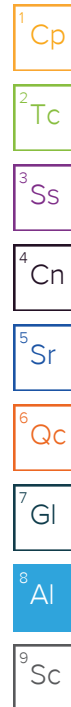
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Internal Transfer Chain of Custody

State of Origin: IL
Cert. Needed: ☒ YES ☐ NO

Pace Analytical
www.pacslabs.com

Owner Received Date: 6/1/2023 By: 6/27/2023 Results Requi

Workorder: GF00247

Workorder Name: Vistra - Coffeen

Report To:	Subcontract To:	Requested Analysis
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122	

A173

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers				Radium 226											LAB USE ONLY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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L1623493

Cooler Temperature on Receipt °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1

Sample Receipt Checklist
COC Seal Present/Intact: ☒ N If Applicable
COC Signed/Accurate: ☒ N VOA Zero Headspace: ☒ N
Bottles arrive intact: ☒ N Pres. Correct/Check: ☒ N
Correct bottles used: ☒ N
Sufficient volume sent: ☒ N
RAD Screen <0.5 mR/hr: ☒ N

63195998966

20.7 ± 0.7

NS A7



Ship to :
Pace Analytical - Mt Juliet
12065 Lebanon Rd
Mt Juliet TN 37122

INTER_LABORATORY WORK ORDER # GF00247

(To be complete by sending lab)

Sending Project No:	GF00247
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	6/6/2023
REQUESTED COMPLETION DATE:	6/27/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	Vistra - Coffeen
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units

Report Wet or Dry Weight?

Cert Needed:

IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		3		3	\$229.30	\$687.90
		1		1	\$0.00	\$0.00
		1		1		\$0.00
TOTAL						\$687.90

Special Requirements:

Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
radiological	38	\$687.90	Receiving Region (80%)	Client Services Dept.
			\$550.32	\$137.58
* Custom Revenue Allocation		TOTAL	\$550.32	\$137.58

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:

☐ Yes ☒ No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____

Receiving Project Manager: _____

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

11623493

ANALYTICAL REPORT

July 19, 2023

Pace IR - Peoria, IL

Sample Delivery Group: L1626090
Samples Received: 06/14/2023
Project Number: GF00917
Description: Vistra-Coffeen
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:



Haley Torrence
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

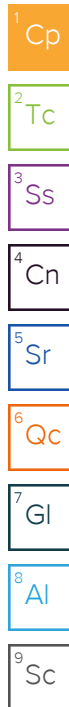
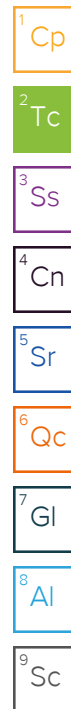


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Collected by
Collected date/time
Received date/time
06/05/23 16:53 06/14/23 09:00

G276 L1626090-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/05/23 15:25 06/14/23 09:00

G273 L1626090-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/05/23 13:05 06/14/23 09:00

G307 L1626090-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/05/23 14:20 06/14/23 09:00

G307D L1626090-04 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/05/23 15:43 06/14/23 09:00

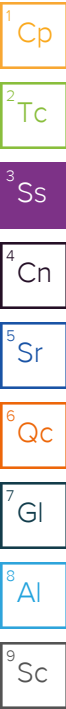
G306 L1626090-05 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/06/23 10:43 06/14/23 09:00

G152 L1626090-06 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090705	1	07/07/23 09:51	07/14/23 21:08	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 21:08	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN



APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

SAMPLE SUMMARY

Collected by
Collected date/time
Received date/time
06/06/23 12:20 06/14/23 09:00

G153 L1626090-07 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090705	1	07/07/23 09:51	07/14/23 21:08	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 21:08	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/06/23 13:45 06/14/23 09:00

G154 L1626090-08 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090705	1	07/07/23 09:51	07/14/23 21:08	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 21:08	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/06/23 11:16 06/14/23 09:00

G271 L1626090-09 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090705	1	07/07/23 09:51	07/14/23 21:08	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 21:08	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:42	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/06/23 09:58 06/14/23 09:00

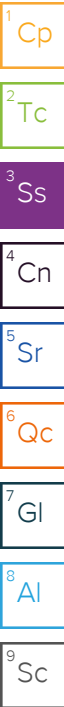
G305 L1626090-10 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090705	1	07/07/23 09:51	07/14/23 21:08	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 21:08	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:42	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/06/23 13:07 06/14/23 09:00

G405 L1626090-11 Non-Potable Water

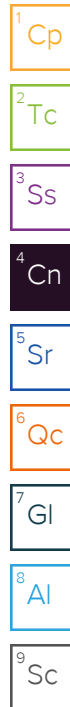
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090705	1	07/07/23 09:51	07/14/23 21:08	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 21:08	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:42	RGT	Mt. Juliet, TN



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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.



Haley Torrence
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.892		0.312	0.537	07/14/2023 16:39	WG2090394
(T) Barium	75.1			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	113			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.966		0.329	0.558	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0747	J	0.104	0.152	07/12/2023 09:41	WG2091007
(T) Barium-133	106			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.248	J	0.277	0.496	07/14/2023 16:39	WG2090394
(T) Barium	77.4			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	100			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.248	U	0.294	0.548	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	-0.0129	U	0.0979	0.234	07/12/2023 09:41	WG2091007
(T) Barium-133	105			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.333	J	0.273	0.486	07/14/2023 16:39	WG2090394
(T) Barium	79.4			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	95.2			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.528	J	0.331	0.539	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.194	J	0.188	0.233	07/12/2023 09:41	WG2091007
(T) Barium-133	108			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.927		0.371	0.643	07/14/2023 16:39	WG2090394
(T) Barium	70.9			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	110			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.02		0.422	0.720	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0984	U	0.202	0.325	07/12/2023 09:41	WG2091007
(T) Barium-133	100			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.274	U	0.283	0.526	07/14/2023 16:39	WG2090394
(T) Barium	73.4			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	103			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0900	U	0.315	0.569	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0900	J	0.139	0.217	07/12/2023 09:41	WG2091007
(T) Barium-133	106			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.475	J	0.523	0.951	07/14/2023 21:08	WG2090705
(T) Barium	70.0			30.0-143	07/14/2023 21:08	WG2090705
(T) Yttrium	103			30.0-136	07/14/2023 21:08	WG2090705

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.513	J	0.539	0.983	07/14/2023 21:08	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0379	U	0.129	0.250	07/12/2023 09:41	WG2091007
(T) Barium-133	102			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-1.50	U	0.467	0.891	07/14/2023 21:08	WG2090705
(T) Barium	67.0			30.0-143	07/14/2023 21:08	WG2090705
(T) Yttrium	114			30.0-136	07/14/2023 21:08	WG2090705

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.146	U	0.531	0.974	07/14/2023 21:08	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.146	J	0.252	0.394	07/12/2023 09:41	WG2091007
(T) Barium-133	70.4			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.852		0.385	0.685	07/14/2023 21:08	WG2090705
(T) Barium	77.4			30.0-143	07/14/2023 21:08	WG2090705
(T) Yttrium	106			30.0-136	07/14/2023 21:08	WG2090705

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.993		0.438	0.752	07/14/2023 21:08	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.141	J	0.208	0.310	07/12/2023 09:41	WG2091007
(T) Barium-133	110			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.09		0.413	0.706	07/14/2023 21:08	WG2090705
(T) Barium	75.7			30.0-143	07/14/2023 21:08	WG2090705
(T) Yttrium	98.5			30.0-136	07/14/2023 21:08	WG2090705

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.32		0.472	0.765	07/14/2023 21:08	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.234	J	0.228	0.294	07/12/2023 09:42	WG2091007
(T) Barium-133	104			30.0-143	07/12/2023 09:42	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.47		0.378	0.654	07/14/2023 21:08	WG2090705
(T) Barium	70.8			30.0-143	07/14/2023 21:08	WG2090705
(T) Yttrium	107			30.0-136	07/14/2023 21:08	WG2090705

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.63		0.405	0.675	07/14/2023 21:08	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.157	J	0.146	0.168	07/12/2023 09:42	WG2091007
(T) Barium-133	104			30.0-143	07/12/2023 09:42	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.53		0.543	0.957	07/14/2023 21:08	WG2090705
(T) Barium	67.8			30.0-143	07/14/2023 21:08	WG2090705
(T) Yttrium	102			30.0-136	07/14/2023 21:08	WG2090705

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.68		0.562	0.972	07/14/2023 21:08	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.147	J	0.146	0.169	07/12/2023 09:42	WG2091007
(T) Barium-133	106			30.0-143	07/12/2023 09:42	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3949806-1 07/14/23 16:39

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.0717	<u>U</u>	0.214	0.391
(T) Barium	75.2		75.2	
(T) Yttrium	103		103	

L1626087-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1626087-01 07/14/23 16:39 • (DUP) R3949806-5 07/14/23 16:39

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.0607	0.339	0.611	0.575	0.509	0.611	1	162	0.841	<u>U</u>	20	3
(T) Barium	75.6			73.0	73.0							
(T) Yttrium	99.0			106	106							

Laboratory Control Sample (LCS)

(LCS) R3949806-2 07/14/23 16:39

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.82	116	80.0-120	
(T) Barium			78.0		
(T) Yttrium			95.3		

L1626083-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1626083-15 07/14/23 16:39 • (MS) R3949806-3 07/14/23 16:39 • (MSD) R3949806-4 07/14/23 16:39

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.14	13.2	13.1	120	120	1	70.0-130			0.304		20
(T) Barium		66.6			75.7	76.3							
(T) Yttrium		116			116	116							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemist: JENNIFER P. BARNES
COF-257-101
GREEN POWER PLANT, ASH POND NO. 1

L1626090-06,07,08,09,10,11

Method Blank (MB)

(MB) R3949833-1 07/14/23 21:08

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.240	U	0.169	0.323
(T) Barium	91.9		91.9	
(T) Yttrium	99.0		99.0	

L1626090-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1626090-11 07/14/23 21:08 • (DUP) R3949833-5 07/14/23 21:08

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.53	0.543	0.957	1.10	0.470	0.957	1	32.7	0.599		20	3
(T) Barium	67.8			79.4	79.4							
(T) Yttrium	102			119	119							

Laboratory Control Sample (LCS)

(LCS) R3949833-2 07/14/23 21:08

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.83	117	80.0-120	
(T) Barium			79.4		
(T) Yttrium			94.1		

L1626090-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1626090-06 07/14/23 21:08 • (MS) R3949833-3 07/14/23 21:08 • (MSD) R3949833-4 07/14/23 21:08

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.475	21.8	20.8	127	122	1	70.0-130			4.47		20
(T) Barium		70.0			80.0	78.5							
(T) Yttrium		103			112	114							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3947927-1 07/12/23 09:41

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0193	<u>U</u>	0.0480	0.0791
(T) Barium-133	99.3		99.3	

L1626090-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1626090-11 07/12/23 09:42 • (DUP) R3947927-5 07/12/23 09:41

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.147	0.146	0.169	0.00608	0.205	0.169	1	184	0.560	<u>U</u>	20	3
(T) Barium-133	106			98.7	98.7							

Laboratory Control Sample (LCS)

(LCS) R3947927-2 07/12/23 09:41

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.58	91.3	80.0-120	
(T) Barium-133			103		

L1626086-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1626086-07 07/12/23 09:41 • (MS) R3947927-3 07/12/23 09:41 • (MSD) R3947927-4 07/12/23 09:41

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.376	18.6	19.0	91.2	93.3	1	75.0-125			2.23		20
(T) Barium-133		93.7			94.0	93.5							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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.

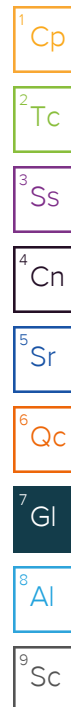
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



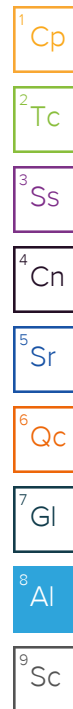
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



State of Origin: IL
 Cert. Needed: ☒ YES ☐ NO



By: 7/3/2023

Requested Analysis

Pace Analytical - Mt Juliet
12065 Lebanon Rd
Mt Juliet TN 37122

Preserved Containers

2102090

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist			
COC Seal Present/Intact:	<u>Y</u>	N	If Applicable
COC Signed/Accurate:	<u>Y</u>	N	VCA Zero Headspace: <u>Y</u> N
Bottles arrive intact:	<u>Y</u>	N	Pres. Correct/Check: <u>F</u> N
Correct bottles used:	<u>Y</u>	N	
Sufficient volume sent:	<u>Y</u>	N	
RAD Screen <0.5 mR/hr:	<u>Y</u>	N	

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1

PH-10BDHJ32: TRC-21481A
CBS-202217



Ship to :

Pace Analytical Services, LLC
1638 Roseytown Rd - Suites 2,3,4
Greensburg, PA 15601

(724)850-5600

INTER LABORATORY WORK ORDER # GF00917

(To be complete by sending lab)

Sending Project No:	GF00917
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	6/12/2023
REQUESTED COMPLETION DATE:	7/3/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	Vistra - Coffeen
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units

Report Wet or Dry Weight?

Cert Needed:

IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		11		11	\$229.30	\$2,522.30
		1		1	\$0.00	\$0.00
		1		1		\$0.00
TOTAL						\$2,522.30

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
radiological	38	\$2,522.30	Receiving Region (80%)	Client Services Dept.
			\$2,017.84	\$504.46
* Custom Revenue Allocation		TOTAL	\$2,017.84	\$504.46

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:

Yes ☐ No ☒

CONFIRMATION OF WORK COMPLETED

Date Completed: Receiving Project Manager:

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Tracking Numbers	GRM Temperature
6319 6000 4262	20.6±0=20.6
" " 4332	20.3±0=20.3
" " 4398	20.2±0=20.2
" " 4343	20.7±0=20.7
" " 4284	20.5±0=20.5

416240090

ANALYTICAL REPORT

July 20, 2023

Pace IR - Peoria, IL

Sample Delivery Group: L1626086
Samples Received: 06/14/2023
Project Number: GF01342
Description: Vistra-Coffeen
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:



Haley Torrence
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

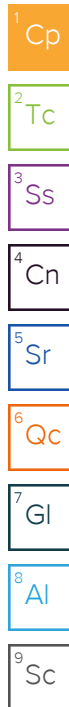
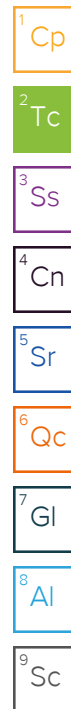


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APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

SAMPLE SUMMARY

Collected by
Collected date/time
Received date/time
06/06/23 16:38 06/14/23 09:00

G301 L1626086-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090952	1	07/10/23 12:04	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090952	1	07/10/23 12:04	07/11/23 19:56	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/06/23 15:15 06/14/23 09:00

G313 L1626086-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090952	1	07/10/23 12:04	07/14/23 16:39	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090952	1	07/10/23 12:04	07/11/23 19:56	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/06/23 15:15 06/14/23 09:00

G313 DUP L1626086-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090952	1	07/10/23 12:04	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090952	1	07/10/23 12:04	07/11/23 19:56	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/06/23 16:05 06/14/23 09:00

G402 L1626086-04 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090952	1	07/10/23 12:04	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090952	1	07/10/23 12:04	07/11/23 19:57	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/07/23 10:02 06/14/23 09:00

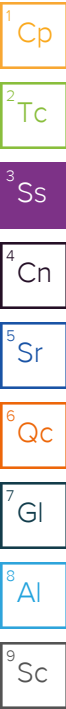
G315 L1626086-05 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090952	1	07/10/23 12:04	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090952	1	07/10/23 12:04	07/11/23 19:56	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/07/23 11:25 06/14/23 09:00

G403 L1626086-06 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN



Collected by
Collected date/time
Received date/time
06/07/23 12:51
06/14/23 09:00

G404 L1626086-07 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/07/23 10:24
06/14/23 09:00

G1001 L1626086-08 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/07/23 11:58
06/14/23 09:00

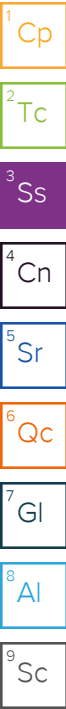
G401 L1626086-09 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/07/23 10:08
06/14/23 09:00

G155 L1626086-10 Non-Potable Water

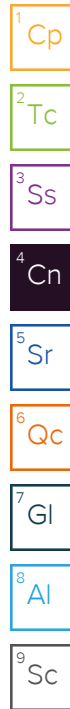
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN



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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.



Haley Torrence
Project Manager



COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-1.73	<u>U</u>	0.485	0.910	07/14/2023 16:39	WG2090394
(T) Barium	70.7			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	91.3			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0829	<u>U</u>	0.524	0.970	07/14/2023 16:39	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0829	<u>U</u>	0.199	0.336	07/11/2023 19:56	WG2090952
(T) Barium-133	82.5			30.0-143	07/11/2023 19:56	WG2090952

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.442	J	0.436	0.773	07/14/2023 16:39	WG2090394
(T) Barium	68.6			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	105			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.879		0.534	0.843	07/14/2023 16:39	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.436		0.309	0.337	07/11/2023 19:56	WG2090952
(T) Barium-133	92.0			30.0-143	07/11/2023 19:56	WG2090952

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.251	U	0.389	0.691	07/14/2023 16:39	WG2090394
(T) Barium	76.5			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	105			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.325	J	0.431	0.755	07/14/2023 16:39	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0742	U	0.185	0.305	07/11/2023 19:56	WG2090952
(T) Barium-133	96.5			30.0-143	07/11/2023 19:56	WG2090952

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.848		0.400	0.697	07/14/2023 16:39	WG2090394
(T) Barium	66.1			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	102			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.22		0.461	0.723	07/14/2023 16:39	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.377		0.230	0.192	07/11/2023 19:57	WG2090952
(T) Barium-133	87.9			30.0-143	07/11/2023 19:57	WG2090952

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.221	U	0.362	0.647	07/14/2023 16:39	WG2090394
(T) Barium	72.4			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	98.8			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.344	J	0.388	0.672	07/14/2023 16:39	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.123	J	0.141	0.180	07/11/2023 19:56	WG2090952
(T) Barium-133	93.5			30.0-143	07/11/2023 19:56	WG2090952

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.750		0.333	0.580	07/14/2023 16:39	WG2090394
(T) Barium	77.0			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	95.6			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.910		0.387	0.644	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.160	J	0.198	0.279	07/12/2023 09:41	WG2091007
(T) Barium-133	101			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.982		0.243	0.404	07/14/2023 16:39	WG2090394
(T) Barium	74.4			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	105			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.36		0.371	0.514	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.376		0.280	0.318	07/12/2023 09:41	WG2091007
(T) Barium-133	93.7			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101
Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.292	U	0.376	0.683	07/14/2023 16:39	WG2090394
(T) Barium	75.7			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	108			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.917		0.546	0.744	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.917		0.396	0.296	07/12/2023 09:41	WG2091007
(T) Barium-133	106			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.133	U	0.312	0.569	07/14/2023 16:39	WG2090394
(T) Barium	76.5			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	106			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.628	J	0.465	0.665	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.628		0.345	0.344	07/12/2023 09:41	WG2091007
(T) Barium-133	94.9			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.618	J	0.487	0.861	07/14/2023 16:39	WG2090394
(T) Barium	74.8			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	102			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.30		0.739	1.08	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.687		0.556	0.651	07/12/2023 09:41	WG2091007
(T) Barium-133	45.4			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3949806-1 07/14/23 16:39

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.0717	<u>U</u>	0.214	0.391
(T) Barium	75.2		75.2	
(T) Yttrium	103		103	

L1626087-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1626087-01 07/14/23 16:39 • (DUP) R3949806-5 07/14/23 16:39

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.0607	0.339	0.611	0.575	0.509	0.611	1	162	0.841	<u>J</u>	20	3
(T) Barium	75.6			73.0	73.0							
(T) Yttrium	99.0			106	106							

Laboratory Control Sample (LCS)

(LCS) R3949806-2 07/14/23 16:39

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.82	116	80.0-120	
(T) Barium			78.0		
(T) Yttrium			95.3		

L1626083-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1626083-15 07/14/23 16:39 • (MS) R3949806-3 07/14/23 16:39 • (MSD) R3949806-4 07/14/23 16:39

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.14	13.2	13.1	120	120	1	70.0-130			0.304		20
(T) Barium		66.6			75.7	76.3							
(T) Yttrium		116			116	116							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Method Blank (MB)

(MB) R3947847-1 07/11/23 15:40

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	-0.00573	U	0.0205	0.0441
(T) Barium-133	105		105	

L1626086-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1626086-03 07/11/23 19:56 • (DUP) R3947847-5 07/11/23 19:56

	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
Analyte	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.0742	0.185	0.305	0.0779	0.108	0.305	1	4.84	0.0172	J	20	3
(T) Barium-133	96.5			95.9	95.9							

Laboratory Control Sample (LCS)

(LCS) R3947847-2 07/11/23 19:56

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.01	4.42	88.1	80.0-120	
(T) Barium-133			82.9		

L1626083-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1626083-11 07/11/23 19:56 • (MS) R3947847-3 07/11/23 19:56 • (MSD) R3947847-4 07/11/23 19:56

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	MS RER	RPD Limits
Analyte	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	-0.0479	18.2	18.3	91.2	91.5	1	75.0-125			0.274		20
(T) Barium-133		94.2			101	103							

Method Blank (MB)

(MB) R3947927-1 07/12/23 09:41

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.0193	<u>U</u>	0.0480	0.0791
(T) Barium-133	99.3		99.3	

L1626090-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1626090-11 07/12/23 09:42 • (DUP) R3947927-5 07/12/23 09:41

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.147	0.146	0.169	0.00608	0.205	0.169	1	184	0.560	<u>U</u>	20	3
(T) Barium-133	106			98.7	98.7							

Laboratory Control Sample (LCS)

(LCS) R3947927-2 07/12/23 09:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.58	91.3	80.0-120	
(T) Barium-133			103		

L1626086-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1626086-07 07/12/23 09:41 • (MS) R3947927-3 07/12/23 09:41 • (MSD) R3947927-4 07/12/23 09:41

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.376	18.6	19.0	91.2	93.3	1	75.0-125			2.23		20
(T) Barium-133		93.7			94.0	93.5							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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.

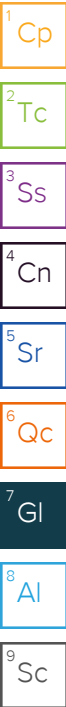
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



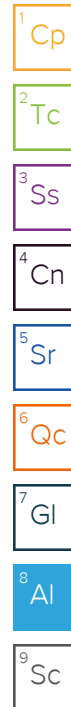
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Internal Transfer Chain of Custody

State of Origin: IL
Cert. Needed: ☒ YES ☐ NO



Workorder: GF01342

Workorder Name: Vistra - Coffeen

Owner Received

Results Requi

Date: 6/7/2023

By: 7/3/2023

Report To:	Subcontract To:	Requested Analysis
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122	

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers				Radium 226											LAB USE ONLY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
1	G301	GRAB	6/6/2023 16:38	GF01342-01	GW					X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

Cooler Temperature on Receipt _____ °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist
COC Seal Present/Intact: Y N If Applicable
COC Signed/Accurate: Y N VOA Zero Headspace: Y N
Bottles arrive intact: Y N Pres. Correct/Check: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
RAD Screen <0.5 mR/hr: Y N



Ship to :

Pace Analytical Services, LLC
1638 Roseytown Rd - Suites 2,3,4
Greensburg, PA 15601

(724)850-5600

INTER_LABORATORY WORK ORDER # GF01342

(To be complete by sending lab)

Sending Project No:	GF01342
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	6/12/2023
REQUESTED COMPLETION DATE:	7/3/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	Vistra - Coffeen
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units

Report Wet or Dry Weight?

Cert Needed:

IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		10		10	\$229.30	\$2,293.00
		1		1	\$0.00	\$0.00
		1		1		\$0.00
TOTAL						\$2,293.00

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
radiological	38	\$2,293.00	Receiving Region (80%)	Client Services Dept.
			\$1,834.40	\$458.60
* Custom Revenue Allocation		TOTAL	\$1,834.40	\$458.60

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☒ No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Tracking Numbers	GRM Temperature
6319 6000 4262	20.6±0=20.6
" " 4332	20.3±0=20.3
" " 4398	20.2±0=20.2
" " 4343	20.7±0=20.7
" " 4284	20.5±0=20.5

4262086

July 19, 2023

Pace IR - Peoria, IL

Sample Delivery Group: L1626083
Samples Received: 06/14/2023
Project Number: GF01733
Description: Vistra-Coffeen
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence

Haley Torrence
Project Manager

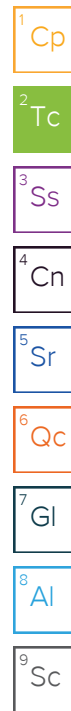
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory 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

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Collected by
Collected date/time
Received date/time

G212 L1626083-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/13/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090830	1	07/07/23 15:45	07/13/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090830	1	07/07/23 15:45	07/10/23 21:49	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

G213 L1626083-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/13/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090830	1	07/07/23 15:45	07/13/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090830	1	07/07/23 15:45	07/10/23 21:49	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

G200 L1626083-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/13/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090830	1	07/07/23 15:45	07/13/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090830	1	07/07/23 15:45	07/10/23 21:49	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

EB-01 L1626083-04 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/13/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090830	1	07/07/23 15:45	07/13/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090830	1	07/07/23 15:45	07/10/23 21:49	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

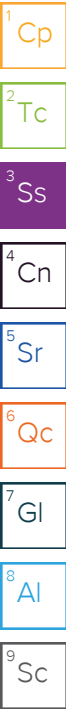
G275 L1626083-05 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/13/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090830	1	07/07/23 15:45	07/13/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090830	1	07/07/23 15:45	07/10/23 21:49	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

G275 DUP L1626083-06 Non-Potable Water

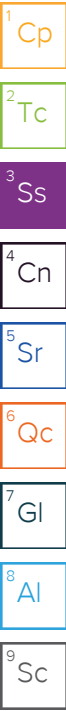
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090830	1	07/07/23 15:45	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090830	1	07/07/23 15:45	07/10/23 21:49	RGT	Mt. Juliet, TN



Collected by
Collected date/time
Received date/time
06/08/23 13:13
06/14/23 09:00

G275D L1626083-07 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090830	1	07/07/23 15:45	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090830	1	07/07/23 15:45	07/10/23 21:49	RGT	Mt. Juliet, TN



Collected by
Collected date/time
Received date/time
06/08/23 09:25
06/14/23 09:00

G280 L1626083-08 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090830	1	07/07/23 15:45	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090830	1	07/07/23 15:45	07/10/23 21:49	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/08/23 14:32
06/14/23 09:00

G283 L1626083-09 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090830	1	07/07/23 15:45	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090830	1	07/07/23 15:45	07/10/23 21:49	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/08/23 13:53
06/14/23 09:00

G285 L1626083-10 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090830	1	07/07/23 15:45	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090830	1	07/07/23 15:45	07/10/23 21:49	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/08/23 13:48
06/14/23 09:00

G281 L1626083-11 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090952	1	07/10/23 12:04	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090952	1	07/10/23 12:04	07/11/23 19:56	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/08/23 09:54
06/14/23 09:00

G270 L1626083-12 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090952	1	07/10/23 12:04	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090952	1	07/10/23 12:04	07/11/23 19:56	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

G284 L1626083-13 Non-Potable Water

06/08/23 15:16 06/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090952	1	07/10/23 12:04	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090952	1	07/10/23 12:04	07/11/23 19:56	RGT	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Collected by
Collected date/time
Received date/time

G217 L1626083-14 Non-Potable Water

06/08/23 16:56 06/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090017	1	07/06/23 09:51	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090952	1	07/10/23 12:04	07/14/23 10:35	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090952	1	07/10/23 12:04	07/11/23 19:56	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

R201 L1626083-15 Non-Potable Water

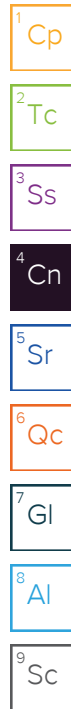
06/07/23 15:40 06/14/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2090952	1	07/10/23 12:04	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2090952	1	07/10/23 12:04	07/11/23 19:56	RGT	Mt. Juliet, TN

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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.



Haley Torrence
Project Manager



COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.187	U	0.415	0.777	07/13/2023 20:53	WG2090017
(T) Barium	81.4			30.0-143	07/13/2023 20:53	WG2090017
(T) Yttrium	105			30.0-136	07/13/2023 20:53	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.194	U	0.446	0.838	07/13/2023 20:53	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.00696	U	0.164	0.314	07/10/2023 21:49	WG2090830
(T) Barium-133	105			30.0-143	07/10/2023 21:49	WG2090830

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.0797	U	0.293	0.556	07/13/2023 20:53	WG2090017
(T) Barium	67.7			30.0-143	07/13/2023 20:53	WG2090017
(T) Yttrium	110			30.0-136	07/13/2023 20:53	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.399	J	0.394	0.642	07/13/2023 20:53	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.319	J	0.264	0.321	07/10/2023 21:49	WG2090830
(T) Barium-133	110			30.0-143	07/10/2023 21:49	WG2090830

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.20		0.495	0.869	07/13/2023 20:53	WG2090017
(T) Barium	58.5			30.0-143	07/13/2023 20:53	WG2090017
(T) Yttrium	114			30.0-136	07/13/2023 20:53	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.48		0.736	0.893	07/13/2023 20:53	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.29		0.545	0.205	07/10/2023 21:49	WG2090830
(T) Barium-133	128			30.0-143	07/10/2023 21:49	WG2090830

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.350	J	0.261	0.484	07/13/2023 20:53	WG2090017
(T) Barium	77.7			30.0-143	07/13/2023 20:53	WG2090017
(T) Yttrium	113			30.0-136	07/13/2023 20:53	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.880		0.400	0.558	07/13/2023 20:53	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.530		0.303	0.278	07/10/2023 21:49	WG2090830
(T) Barium-133	112			30.0-143	07/10/2023 21:49	WG2090830

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.0751	U	0.346	0.650	07/13/2023 20:53	WG2090017
(T) Barium	73.2			30.0-143	07/13/2023 20:53	WG2090017
(T) Yttrium	117			30.0-136	07/13/2023 20:53	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0751	U	0.388	0.749	07/13/2023 20:53	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	-0.121	U	0.175	0.373	07/10/2023 21:49	WG2090830
(T) Barium-133	94.0			30.0-143	07/10/2023 21:49	WG2090830

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.903	<u>U</u>	0.449	0.848	07/14/2023 10:35	WG2090017
(T) Barium	69.3			30.0-143	07/14/2023 10:35	WG2090017
(T) Yttrium	88.8			30.0-136	07/14/2023 10:35	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0267	<u>U</u>	0.473	0.893	07/14/2023 10:35	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0267	<u>U</u>	0.149	0.279	07/10/2023 21:49	WG2090830
(T) Barium-133	107			30.0-143	07/10/2023 21:49	WG2090830

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.987		0.377	0.666	07/14/2023 10:35	WG2090017
(T) Barium	73.2			30.0-143	07/14/2023 10:35	WG2090017
(T) Yttrium	94.0			30.0-136	07/14/2023 10:35	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.34		0.459	0.730	07/14/2023 10:35	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.352		0.262	0.298	07/10/2023 21:49	WG2090830
(T) Barium-133	103			30.0-143	07/10/2023 21:49	WG2090830

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.118	U	0.384	0.704	07/14/2023 10:35	WG2090017
(T) Barium	79.7			30.0-143	07/14/2023 10:35	WG2090017
(T) Yttrium	81.4			30.0-136	07/14/2023 10:35	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.839		0.524	0.764	07/14/2023 10:35	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.721		0.357	0.296	07/10/2023 21:49	WG2090830
(T) Barium-133	123			30.0-143	07/10/2023 21:49	WG2090830

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.22		0.428	0.720	07/14/2023 10:35	WG2090017
(T) Barium	67.0			30.0-143	07/14/2023 10:35	WG2090017
(T) Yttrium	88.0			30.0-136	07/14/2023 10:35	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.88		0.547	0.791	07/14/2023 10:35	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.664		0.341	0.327	07/10/2023 21:49	WG2090830
(T) Barium-133	107			30.0-143	07/10/2023 21:49	WG2090830

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101
Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.82		0.289	0.423	07/14/2023 10:35	WG2090017
(T) Barium	70.9			30.0-143	07/14/2023 10:35	WG2090017
(T) Yttrium	103			30.0-136	07/14/2023 10:35	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.10		0.378	0.516	07/14/2023 10:35	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.277	J	0.243	0.296	07/10/2023 21:49	WG2090830
(T) Barium-133	126			30.0-143	07/10/2023 21:49	WG2090830

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.000	<u>U</u>	0.397	0.728	07/14/2023 10:35	WG2090017
(T) Barium	73.4			30.0-143	07/14/2023 10:35	WG2090017
(T) Yttrium	96.1			30.0-136	07/14/2023 10:35	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.000	<u>U</u>	0.405	0.769	07/14/2023 10:35	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	-0.0479	<u>U</u>	0.0794	0.249	07/11/2023 19:56	WG2090952
(T) Barium-133	94.2			30.0-143	07/11/2023 19:56	WG2090952

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

COF-257-101
Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-1.16	U	0.371	0.726	07/14/2023 10:35	WG2090017
(T) Barium	74.0			30.0-143	07/14/2023 10:35	WG2090017
(T) Yttrium	79.6			30.0-136	07/14/2023 10:35	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.485	J	0.471	0.772	07/14/2023 10:35	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.485		0.290	0.263	07/11/2023 19:56	WG2090952
(T) Barium-133	88.3			30.0-143	07/11/2023 19:56	WG2090952

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

COF-257-101
Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.512	J	0.366	0.660	07/14/2023 10:35	WG2090017
(T) Barium	74.8			30.0-143	07/14/2023 10:35	WG2090017
(T) Yttrium	92.6			30.0-136	07/14/2023 10:35	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.01		0.488	0.742	07/14/2023 10:35	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.497		0.323	0.339	07/11/2023 19:56	WG2090952
(T) Barium-133	95.9			30.0-143	07/11/2023 19:56	WG2090952

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.435	J	0.410	0.741	07/14/2023 10:35	WG2090017
(T) Barium	70.6			30.0-143	07/14/2023 10:35	WG2090017
(T) Yttrium	86.9			30.0-136	07/14/2023 10:35	WG2090017

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.574	J	0.445	0.778	07/14/2023 10:35	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.140	J	0.173	0.238	07/11/2023 19:56	WG2090952
(T) Barium-133	91.2			30.0-143	07/11/2023 19:56	WG2090952

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.14		0.416	0.719	07/14/2023 16:39	WG2090394
(T) Barium	66.6			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	116			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.50		0.501	0.778	07/14/2023 16:39	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.360		0.279	0.297	07/11/2023 19:56	WG2090952
(T) Barium-133	84.3			30.0-143	07/11/2023 19:56	WG2090952

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3949552-1 07/13/23 20:53

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.147	<u>U</u>	0.176	0.329
(T) Barium	80.6		80.6	
(T) Yttrium	104		104	

L1626083-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1626083-01 07/13/23 20:53 • (DUP) R3949552-5 07/13/23 20:53

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.187	0.415	0.777	-0.452	0.532	0.777	1	200	0.946	<u>U</u>	20	3
(T) Barium	81.4			69.6	69.6							
(T) Yttrium	105			114	114							

Laboratory Control Sample (LCS)

(LCS) R3949552-2 07/13/23 20:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.49	110	80.0-120	
(T) Barium			76.9		
(T) Yttrium			119		

L1624831-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1624831-18 07/13/23 20:53 • (MS) R3949552-3 07/13/23 20:53 • (MSD) R3949552-4 07/13/23 20:53

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.226	21.7	18.5	129	109	1	70.0-130			16.0		20
(T) Barium		79.7			76.7	80.8							
(T) Yttrium		121			107	117							

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3949806-1 07/14/23 16:39

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.0717	<u>U</u>	0.214	0.391
(T) Barium	75.2		75.2	
(T) Yttrium	103		103	

L1626087-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1626087-01 07/14/23 16:39 • (DUP) R3949806-5 07/14/23 16:39

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.0607	0.339	0.611	0.575	0.509	0.611	1	162	0.841	<u>J</u>	20	3
(T) Barium	75.6			73.0	73.0							
(T) Yttrium	99.0			106	106							

Laboratory Control Sample (LCS)

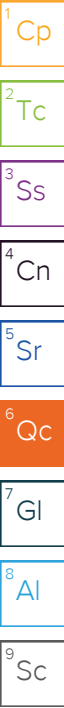
(LCS) R3949806-2 07/14/23 16:39

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.82	116	80.0-120	
(T) Barium			78.0		
(T) Yttrium			95.3		

L1626083-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1626083-15 07/14/23 16:39 • (MS) R3949806-3 07/14/23 16:39 • (MSD) R3949806-4 07/14/23 16:39

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.14	13.2	13.1	120	120	1	70.0-130			0.304		20
(T) Barium		66.6			75.7	76.3							
(T) Yttrium		116			116	116							



Method Blank (MB)

(MB) R3947945-1 07/10/23 21:49

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.00648	<u>U</u>	0.0284	0.0563
(T) Barium-133	98.6		98.6	

L1624825-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1624825-03 07/10/23 21:49 • (DUP) R3947945-5 07/10/23 21:49

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	1.08	0.405	0.264	1.13	0.413	0.264	1	5.17	0.0985		20	3
(T) Barium-133	88.8			75.1	75.1							

Laboratory Control Sample (LCS)

(LCS) R3947945-2 07/10/23 21:49

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.90	97.8	80.0-120	
(T) Barium-133			93.2		

L1624825-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1624825-08 07/10/23 21:49 • (MS) R3947945-3 07/10/23 21:49 • (MSD) R3947945-4 07/10/23 21:49

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.351	16.6	19.0	81.1	93.4	1	75.0-125			13.9		20
(T) Barium-133		97.6			71.4	63.9							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3947847-1 07/11/23 15:40

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	-0.00573	<u>U</u>	0.0205	0.0441
(T) Barium-133	105		105	

L1626086-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1626086-03 07/11/23 19:56 • (DUP) R3947847-5 07/11/23 19:56

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0742	0.185	0.305	0.0779	0.108	0.305	1	4.84	0.0172	<u>J</u>	20	3
(T) Barium-133	96.5			95.9	95.9							

Laboratory Control Sample (LCS)

(LCS) R3947847-2 07/11/23 19:56

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.42	88.1	80.0-120	
(T) Barium-133			82.9		

L1626083-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1626083-11 07/11/23 19:56 • (MS) R3947847-3 07/11/23 19:56 • (MSD) R3947847-4 07/11/23 19:56

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	-0.0479	18.2	18.3	91.2	91.5	1	75.0-125			0.274		20
(T) Barium-133		94.2			101	103							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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.

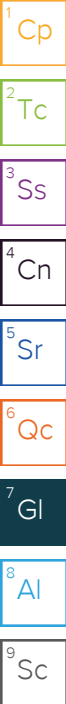
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



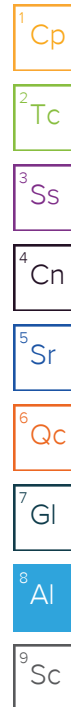
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



State of Origin: IL
 Cert. Needed: ☒ YES ☐ NO

Pace Analytical
www.pacelabs.com

By: 7/3/2023

Requested Analysis

Pace Analytical - Mt Juliet
12065 Lebanon Rd
Mt Juliet TN 37122

Preserved Containers

2786/778 27

LAB USE ONLY

Cooler Temperature on Receipt	°C	Custody Seal (Y or N)	Received on Ice (Y or N)	Sample Intact (Y or N)
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This chain of custody is considered complete as is since this information is available in the owner laboratory.

Page 1 of 1

PH-10BDH4321 TRC-2 160:1
CR6-20221V

Sample Receipt Checklist

COC Seal Present/Intact:	<u>✓</u> N	If Applicable	
COC Signed/Accurate:	<u>✓</u> N	VOA Zero HeadSpace:	<u>✓</u> N
Bottles arrive intact:	<u>✓</u> N	Pres. Correct/Check:	<u>✓</u> N
Correct bottles used:	<u>✓</u> N		
Sufficient volume sent:	<u>✓</u> N		
RAD Screen <0.5 mR/hr:	<u>✓</u> N		

Internal Transfer Chain of Custody

State of Origin: IL
Cert. Needed: ☒ YES ☐ NO



Workorder: GF01733

Workorder Name: Vistra - Coffeen

Owner Received

Results Required

Date: 6/9/2023

By: 7/3/2023

Report To: Subcontract To: Requested Analysis

Gail Schindler
Pace Analytical - IL/MO
2231 W. Altorfer Drive
Peoria, IL 61615
800-752-6651

Pace Analytical - Mt Juliet
12065 Lebanon Rd
Mt Juliet TN 37122

Preserved Containers

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Radium 226/228										LAB USE ONLY									
1	G281	GRAB	6/8/2023 13:48	GF01733-11	GW																				
2	G270	GRAB	6/8/2023 9:54	GF01733-12	GW																				
3	G284	GRAB	6/8/2023 15:16	GF01733-13	GW																				
4	G217	GRAB	6/8/2023 16:56	GF01733-14	GW																				
5	R201	GRAB	6/7/2023 15:40	GF01733-15	GW																				
6																									
7																									
8																									
9																									
10																									

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1			<i>Handy Rotstein</i>	6/14/23 0900	Needs reported as 226, 228 and also combined 226/228
2					
3					Include QC summary and edd

Cooler Temperature on Receipt _____ °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.



Ship to :

Pace Analytical Services, LLC
1638 Roseytown Rd - Suites 2,3,4
Greensburg, PA 15601

(724)850-5600

INTER LABORATORY WORK ORDER # GF01733

(To be complete by sending lab)

Sending Project No:	GF01733
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	6/12/2023
REQUESTED COMPLETION DATE:	7/3/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	Visitra - Coffeen
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units

Report Wet or Dry Weight?

Cert Needed:

IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		15		15	\$229.30	\$3,439.50
		1		1	\$0.00	\$0.00
		1		1		\$0.00
TOTAL						\$3,439.50

Special Requirements:

Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acttg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$3,439.50	\$2,751.60	\$687.90
* Custom Revenue Allocation		TOTAL	\$2,751.60	\$687.90

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:

☐

Yes

☒

No

CONFIRMATION OF WORK COMPLETED

Date Completed:

Receiving Project Manager:

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Tracking Numbers	GPAT Temperature
6319 6000 4262	20.6±0=20.6
" " 4332	20.3±0=20.3
" " 4398	20.2±0=20.2
" " 4343	20.7±0=20.7
" " 4284	20.5±0=20.5

11626083

ANALYTICAL REPORT

July 19, 2023

Pace IR - Peoria, IL

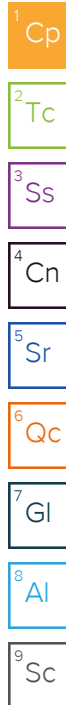
Sample Delivery Group: L1626087
Samples Received: 06/14/2023
Project Number: GF01900
Description: Vistra-Coffeen
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence

Haley Torrence
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

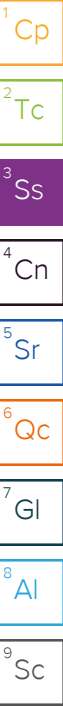
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
G206 L1626087-01	5	
G206 DUP L1626087-02	6	⁴ Cn
G206D L1626087-03	7	⁵ Sr
G209 L1626087-04	8	
Qc: Quality Control Summary	9	⁶ Qc
Radiochemistry by Method 904/9320	9	
Radiochemistry by Method SM7500Ra B M	10	⁷ Gl
Gl: Glossary of Terms	11	
Al: Accreditations & Locations	12	⁸ Al
Sc: Sample Chain of Custody	13	⁹ Sc

Collected by
Collected date/time
Received date/time
06/09/23 13:20 06/14/23 09:00

G206 L1626087-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN



Collected by
Collected date/time
Received date/time
06/09/23 13:20 06/14/23 09:00

G206 DUP L1626087-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/09/23 12:29 06/14/23 09:00

G206D L1626087-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time
06/09/23 09:44 06/14/23 09:00

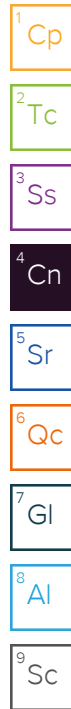
G209 L1626087-04 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2090394	1	07/06/23 17:46	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2091007	1	07/10/23 16:29	07/14/23 16:39	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2091007	1	07/10/23 16:29	07/12/23 09:41	RGT	Mt. Juliet, TN

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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.



Haley Torrence
Project Manager



COF-257-101

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.0607	U	0.339	0.611	07/14/2023 16:39	WG2090394
(T) Barium	75.6			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	99.0			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.227	U	0.385	0.656	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.166	J	0.182	0.240	07/12/2023 09:41	WG2091007
(T) Barium-133	92.5			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.20		0.336	0.571	07/14/2023 16:39	WG2090394
(T) Barium	74.6			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	105			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.79		0.519	0.704	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.589		0.396	0.412	07/12/2023 09:41	WG2091007
(T) Barium-133	66.4			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.372	J	0.319	0.568	07/14/2023 16:39	WG2090394
(T) Barium	71.7			30.0-143	07/14/2023 16:39	WG2090394
(T) Yttrium	121			30.0-136	07/14/2023 16:39	WG2090394

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.701		0.380	0.591	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.330		0.206	0.164	07/12/2023 09:41	WG2091007
(T) Barium-133	101			30.0-143	07/12/2023 09:41	WG2091007

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3949806-1 07/14/23 16:39

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.0717	<u>U</u>	0.214	0.391
(T) Barium	75.2		75.2	
(T) Yttrium	103		103	

L1626087-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1626087-01 07/14/23 16:39 • (DUP) R3949806-5 07/14/23 16:39

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.0607	0.339	0.611	0.575	0.509	0.611	1	162	0.841	<u>J</u>	20	3
(T) Barium	75.6			73.0	73.0							
(T) Yttrium	99.0			106	106							

Laboratory Control Sample (LCS)

(LCS) R3949806-2 07/14/23 16:39

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.82	116	80.0-120	
(T) Barium			78.0		
(T) Yttrium			95.3		

L1626083-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1626083-15 07/14/23 16:39 • (MS) R3949806-3 07/14/23 16:39 • (MSD) R3949806-4 07/14/23 16:39

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.14	13.2	13.1	120	120	1	70.0-130			0.304		20
(T) Barium		66.6			75.7	76.3							
(T) Yttrium		116			116	116							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3947927-1 07/12/23 09:41

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0193	U	0.0480	0.0791
(T) Barium-133	99.3		99.3	

L1626090-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1626090-11 07/12/23 09:42 • (DUP) R3947927-5 07/12/23 09:41

	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
Analyte	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%				
Radium-226	0.147	0.146	0.169	0.00608	0.205	0.169	1	184	0.560	U	20	3
(T) Barium-133	106			98.7	98.7							

Laboratory Control Sample (LCS)

(LCS) R3947927-2 07/12/23 09:41

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.58	91.3	80.0-120	
(T) Barium-133			103		

L1626086-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1626086-07 07/12/23 09:41 • (MS) R3947927-3 07/12/23 09:41 • (MSD) R3947927-4 07/12/23 09:41

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	MS RER	RPD Limits
Analyte	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.376	18.6	19.0	91.2	93.3	1	75.0-125			2.23		20
(T) Barium-133		93.7			94.0	93.5							

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

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

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

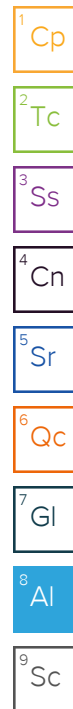
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



A101

www.analytical
www.pacelabs.com

By: 7/3/2023

Requested Analysis

Pace Analytical - Mt Juliet
12065 Lebanon Rd
Mt Juliet TN 37122

Preserved Containers

Radium 226/228 27

LAB USE ONLY

Cooler Temperature on Receipt _____ °C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N
--	---------------------	------------------------	----------------------

This chain of custody is considered complete as is since this information is available in the owner laboratory.

Page 1 of 1

Sample Receipt Checklist

COC Seal Present/Intact:	<u>Y</u> N	If Applicable	
COC Signed/Accurate:	<u>Y</u> N	VOA Zero Headspace:	<u>Y</u> N
Bottles arrive intact:	<u>Y</u> N	Pres. Correct/Check:	<u>Y</u> N
Correct bottles used:	<u>Y</u> N		
Sufficient volume sent:	<u>Y</u> N		
RAD Screen <0.5 mR/hr:	<u>Y</u> N		

PH-10BDM4321 TRC-2146111
CR6-20221V

Pace Analytical Services, LLC
1638 Roseytown Rd - Suites 2,3,4
Greensburg, PA 15601

(To be complete by sending lab)			
Sending Project No:		GF01900	
Receiving Project No:			
Check Box for Consolidated Invoice:			
Date Prepared:		6/12/2023	
REQUESTED COMPLETION DATE:		7/3/2023	

(To be complete by sending lab)

INTER_LABORATORY WORK ORDER # GF01900

71626087

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	Vistra - Coffeen
State of Sample Origin	IL	QC Deliverable	STD Report

Requested Reportable Units

Report Wet or Dry Weight?

Cert Needed:

71

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		4		4	\$229.30	\$917.20
						\$0.00
						\$0.00
TOTAL						\$917.20

Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$917.20	\$733.76	\$183.44
		TOTAL	\$733.76	\$183.44
Custom Revenue Allocation				

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☒ No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Tracking Numbers	GRM Temperature
6319 6000 4262	20.6±0=20.6
" " 4332	20.3±0=20.3
" " 4398	20.2±0=20.2
" " 4343	20.7±0=20.7
" " 4284	20.5±0=20.5

110210067

6500140
Vnuw 6-1-23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Visira Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Visira Corp
Email To:	Brian.Voelker@VisiraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Project Name:		Quote Reference:	
	Fax:			Project Manager:	
Requested Due Date/TAT:		10 day		Profile #:	
				Project Number:	2285

Section D Required Client Information		Valid Matrix Codes		Requested Analysis Filtered (Y/N)	
SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)		COLLECTED DATE TIME	
ITEM #					
1	G101	WT	5/31/23	1352	
2	G107			1414	
3	G109			1530	
4	G110			1445	
5	G119			1024	
6	G120			1020	
7	G121			1120	
8	G122			1126	
9	G123			1220	
10	G124			1250	
11	G125			1310	
12	G302 Dup			1600	
13	G302			1600	
14	G303			1723	
15	G316			1033	
16					

Section E Additional Comments		Relinquished By / Affiliation		Date		Time		Accepted By / Affiliation		Date		Time	
COF-23Q2 Rev 1		Jason R Reed		6/1/23		1100		Jason R Reed		6/1/23		1100	
		SIGNATURE OF SAMPLER:		PRINT Name of SAMPLER:		DATE Signed (MM/DD/YYYY):		6/1/23					

Section F Sample Conditions		Temp in °C		Received on		Ice (Y/N)		Custody		Sealed Cooler (Y/N)		Samples Intact (Y/N)	
		3.5		6/1/23 13:57		Y		N		Y		Y	

6500140
Vms 6-1-23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: Vistra Corp Address: 13498 E. 900th St Email To: Brian.Voelker@VistraCorp.com Phone: (217) 753-8911 Fax: Requested Due Date/TAT: 10 day		Section B Required Project Information: Report To: Brian Voelker Copy To: Jason Stuckey Purchase Order No.: Project Name: Project Number: 2285		Section C Invoice Information: Attention: Jason Stuckey Company Name: Vistra Corp Address: see Section A Quote Reference: Project Manager: Profile #:	
Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		Valid Matrix Codes MATRIX CODE DW DRINKING WATER WT WASTE WATER WW WASTE WATER P PRODUCT SL SOLID WP WASTE PRODUCT AR AIR OT OTHER TS TISSUE			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.
					DATE	TIME															
1	G406	DUP	WT	G	5/31/23	1645		14													COF_WPCP_106
2	G406	DUP	WT	G	5/31/23	1645		14													COF_WPCP_103_104
3	G407		WT	G	5/31/23	1409		14													COF_WPCP_102
4	G410		WT	G	5/31/23	1327		6													COF_SUP_000
5	G411		WT	G	5/31/23	1200		6													COF_845_104
6	G340		WT	G	6/1/23	0938		13													COF_845_103
7	G314		WT	G	6/1/23	1047		13													COF_845_102
8	G218		WT	G	6/1/23	1112		15													COF_845_101
9	G101 DUP		WT	G	5/31/23	1352		4													COF_811_105
10	G124 DUP		WT	G	5/31/23	1350		4													COF_257_105
11																					COF_257_104
12																					COF_257_103
13																					COF_257_102
14																					COF_257_101
15																					COF_811_105
16																					COF_257_106

Section E Additional Comments COF-23Q2 Rev 1		RELINQUISHED BY / AFFILIATION 		DATE 6/1/23	TIME 1106	ACCEPTED BY / AFFILIATION 	DATE 6/1/23	TIME 1353	SAMPLE CONDITIONS Received on (Y/N) Y Custody (Y/N) N Sealed Cooler (Y/N) N Intact (Y/N) Y
SAMPLE NAME AND SIGNATURE 		PRINT Name of SAMPLER: Jason Stuckey		DATE SIGNED (MM/DD/YY): 6/1/23		Temp in °C 5.5		Residual Chlorine (Y/N) Y	

6-1-23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: Visira Corp Address: 13498 E. 900th St Email To: Brian.Voelker@VisiraCorp.com Phone: (217) 753-8911 Fax: Requested Due Date/TAT: 10 day		Section B Required Project Information: Report To: Brian Voelker Copy To: Jason Stuckey Purchase Order No.: Project Name: Project Number: 2285		Section C Invoice Information: Attention: Jason Stuckey Company Name: Visira Corp Address: see Section A Quote Reference: Project Manager: Profile #		Page: 2 of 7	
REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER		Site Location IL STATE:		Project No. / Lab I.D.		Residual Chlorine (Y/N)	
SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIFE WP AIR AR OTHER OT TISSUE TS		MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP) COLLECTED DATE TIME SAMPLE TEMP AT COLLECTION		# OF CONTAINERS Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	
Requested Analysis Filtered (Y/N)		Analysis Test		COF_257_101 COF_257_102 COF_257_103 COF_257_104 COF_811_105 COF_845_101 COF_845_102 COF_845_103 COF_845_104 COF_SUP_000 COF_WPCP_102 COF_WPCP_103_104 COF_WPCP_106		Project No. / Lab I.D.	
ADDITIONAL COMMENTS COF-23Q2 Rev 1		RELINQUISHED BY / AFFILIATION DATE TIME		ACCEPTED BY / AFFILIATION DATE TIME		SAMPLE CONDITIONS Received on (Y/N) Custody (Y/N) Sealed Cooler (Y/N) Samples Intact (Y/N)	
SIGNATURE OF SAMPLER: PRINT Name of SAMPLER: SIGNATURE OF SAMPLER:		DATE TIME		DATE TIME		Temp in °C 4.6	

6501342
VMS 6-7-23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 7

Section A
Required Client Information:

Company: Visira Corp
Address: 13498 E. 900th St
Email To: Brian.Voelker@VisiraCorp.com
Phone: (217) 753-8911 Fax: _____
Requested Due Date/TAT: 10 day

Section B
Required Project Information:

Report To: Brian Voelker
Copy To: Jason Stuckey
Purchase Order No.: _____
Project Name: _____
Project Number: 2285

Section C
Invoice Information:

Attention: Jason Stuckey
Company Name: Visira Corp
Address: see Section A
Quote Reference: _____
Project Manager: _____
Profile #: _____

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEE POWER PLANT ASH POND NO. 1
COF-257-101

REGULATORY AGENCY

NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐
UST ☐ RCRA ☐ OTHER ☐

Site Location: IL
STATE: _____

Section D Required Client Information		Valid Matrix Codes		Matrix Code (see valid codes to left)		Sample Type (G-GRAB C-COMP)		COLLECTED		SAMPLE TEMP AT COLLECTION		PRESERVATIVES		ANALYSIS TEST		Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.													
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX	CODE	MATRIX	CODE	MATRIX	CODE	DATE	TIME	DATE	TIME	NaOH	HCl	HNO ₃	H ₂ SO ₄	Unpreserved	COF_257_101	COF_257_102	COF_257_103	COF_257_104	COF_845_101	COF_845_102	COF_845_103	COF_845_104	COF_WPCP_000	COF_WPCP_102	COF_WPCP_103	COF_WPCP_104	COF_WPCP_106	Residual Chlorine (Y/N)	
1	6102	GROUND WATER	DW	GROUND WATER	DW	6	6	6/6/23	1411																						
2	R104	WASTE WATER	WW	WASTE WATER	WW	6	6	6/6/23	1514																						
3	6105	PRODUCT	P	PRODUCT	P	6	6	6/6/23	1626																						
4	6301	WASTE WATER	WW	WASTE WATER	WW	6	6	6/6/23	1638																						
5	6313	WASTE WATER	WW	WASTE WATER	WW	6	6	6/6/23	1515																						
6	6313 11wp	WASTE WATER	WW	WASTE WATER	WW	6	6	6/6/23	1515																						
7	6402	WASTE WATER	WW	WASTE WATER	WW	6	6	6/6/23	1605																						
8																															
9																															
10																															
11																															
12																															
13																															
14																															
15																															
16																															

Section E
Additional Comments

COF-23Q2 Rev 1

RELINQUISHED BY / AFFILIATION: Visira Corp
DATE: 6/7/23 TIME: 1351
SAMPLER NAME AND SIGNATURE: Jason Stuckey
PRINT Name of SAMPLER: _____
SIGNATURE of SAMPLER: _____
DATE Signed (MM/DD/YY): 06/06/23

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 4 of 7Page 169 of 172

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page 170 of 172

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location	IL	
STATE:		

[illegible]

SAMPLER NAME AND SIGNATURE <i>James Dard</i>		6/12/2000	7.7	1	2	Y
PRINT Name of SAMPLER: <i>James Dard</i>			Temp in °C	Recollected on loss (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER: <i>James Dard</i>	DATE Signed (MM/DD/YY): <i>6/8/23</i>					

COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company: Vistra Corp
Address: 13498 E. 900th St
Email To: Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911 Fax:
Requested Due Date/TAT: 10 day

Section B Required Project Information:

Report To: Brian Voelker
Copy To: Jason Stuckey
Purchase Order No.:
Project Name:
Project Number: 2285

Section C Invoice Information:

Attention: Jason Stuckey
Company Name: Vistra Corp
Address: see Section A
Quote Reference:
Project Manager:
Profile #:

REGULATORY AGENCY

NPDES
GROUND WATER
RCRA
OTHER
UST
DRINKING WATER

Site Location

STATE: IL

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives HCl HNO ₃ H ₂ SO ₄ Unpreserved	Analysis Test Y/N	COF_257_101	COF_257_102	COF_257_103	COF_257_104	COF_257_105	COF_811_106	COF_845_101	COF_845_102	COF_845_103	COF_845_104	COF_SUP_000	COF_WPCP_102	COF_WPCP_103	COF_WPCP_104	COF_WPCP_106	Residual Chlorine (Y/N)	Project No./Lab I.D.
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									

ADDITIONAL COMMENTS

COF-23Q2 Rev 1

RELINQUISHED BY / AFFILIATION

[Signature] 6/19/23 1614

ACCEPTED BY / AFFILIATION

[Signature] 6-9-23 1614

DATE

TIME

SAMPLE CONDITIONS

Received on: 6-9-23 Temp in °C: 3.1
Cooler (Y/N): Y
Sealed Cooler (Y/N): Y
Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

[Signature]

DATE Signed

(MM/DD/YYYY): 06/09/23

November 21, 2023

Eric Bauer
Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
TEL: (414) 837-3607
FAX: (414) 837-3608



Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: COF-23Q3

WorkOrder: 23071810

Dear Eric Bauer:

TEKLAB, INC received 23 samples for COF_257_101 on 9/19/2023 1:12:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	7
Laboratory Results	8
Sample Summary	47
Dates Report	48
Quality Control Results	71
Receiving Check List	211
Chain of Custody	Appended

Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Abbr Definition

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)



Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Qualifiers

- | | |
|---|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range |
| H - Holding times exceeded | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | T - TIC(Tentatively identified compound) |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Cooler Receipt Temp: 3.4 °C

An employee of Teklab, Inc. collected the sample(s).

G200, G207, G275, G277, G278, G279, G286, G1003, L203, and R201 could not be collected; the wells were dry. G1001 and G307 would not pump. G287, TR32, SG-02, and SG-04 could not be located/accessed.

G308 and G301DUP will be reported with collection times per field file(s). EAH 9/6/23

Due to an error in the field, G308 and X201 were recollected on 9/19/23 for Ferrous Iron and Total Iron per Ramboll's request. X201's depth measurement was also completed on 9/19/23. Resamples will be reported. EAH 9/19/23

Per Eric Bauer's request, only COF_257_101 data is included in this report. EAH 11/21/23

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-051

Client Sample ID: G281

Matrix: GROUNDWATER

Collection Date: 08/14/2023 16:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.39	ft	1	08/14/2023 16:06	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		6.4	NTU	1	08/14/2023 16:06	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		102	mV	1	08/14/2023 16:06	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1740	µS/cm	1	08/14/2023 16:06	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		18.6	°C	1	08/14/2023 16:06	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.74	mg/L	1	08/14/2023 16:06	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.76		1	08/14/2023 16:06	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		357	mg/L	1	08/16/2023 13:58	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 13:58	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		930	mg/L	1	08/16/2023 11:41	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		268	mg/L	10	08/30/2023 16:58	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.30	mg/L	1	08/16/2023 12:23	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	8		88	mg/L	2	08/30/2023 16:53	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		137	mg/L	1	08/16/2023 16:52	210901
Magnesium	NELAP	0.0055	0.0500		61.0	mg/L	1	08/16/2023 16:52	210901
Potassium	NELAP	0.0400	0.100		0.609	mg/L	1	08/16/2023 16:52	210901
Sodium	NELAP	0.0180	0.0500		90.7	mg/L	1	08/16/2023 16:52	210901
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010		< 0.0010	mg/L	5	09/01/2023 7:26	210901
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/01/2023 7:26	210901
Barium	NELAP	0.0007	0.0010		0.0707	mg/L	5	09/07/2023 20:41	210901
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 7:26	210901
Boron	NELAP	0.0092	0.0200		< 0.0200	mg/L	5	09/01/2023 7:26	210901
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 7:26	210901
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/01/2023 7:26	210901
Cobalt	NELAP	0.0001	0.0010	J	0.0004	mg/L	5	09/01/2023 7:26	210901
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/07/2023 20:41	210901
Lithium	*	0.0015	0.0030		0.0042	mg/L	5	09/01/2023 7:26	210901
Molybdenum	*	0.0006	0.0015		< 0.0015	mg/L	5	09/01/2023 7:26	210901
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 7:26	210901
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 7:26	210901

Sample result for Mn exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-051
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G281
Collection Date: 08/14/2023 16:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/24/2023 19:55	211199



Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-058

Client Sample ID: G301

Matrix: GROUNDWATER

Collection Date: 08/09/2023 11:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.11	ft	1	08/09/2023 11:13	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		8.4	NTU	1	08/09/2023 11:13	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-96	mV	1	08/09/2023 11:13	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2190	µS/cm	1	08/09/2023 11:13	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.5	°C	1	08/09/2023 11:13	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.44	mg/L	1	08/09/2023 11:13	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.36		1	08/09/2023 11:13	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		141	mg/L	1	08/17/2023 13:37	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 13:37	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1000	mg/L	1	08/12/2023 10:08	R334965
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		513	mg/L	20	08/30/2023 17:40	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.31	mg/L	1	08/14/2023 11:54	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		12	mg/L	1	09/01/2023 14:07	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		113	mg/L	1	08/15/2023 17:51	210812
Magnesium	NELAP	0.0055	0.0500		42.6	mg/L	1	08/15/2023 17:51	210812
Potassium	NELAP	0.0400	0.100		1.77	mg/L	1	08/15/2023 17:51	210812
Sodium	NELAP	0.0180	0.0500		113	mg/L	1	08/15/2023 17:51	210812

Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	08/30/2023 21:24	210812
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	08/30/2023 21:24	210812
Barium	NELAP	0.0007	0.0010		0.0152	mg/L	5	08/30/2023 21:24	210812
Beryllium	NELAP	0.0003	0.0010		< 0.0010	mg/L	5	08/30/2023 21:24	210812
Boron	NELAP	0.0092	0.0200		2.08	mg/L	5	08/30/2023 21:24	210812
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	08/30/2023 21:24	210812
Chromium	NELAP	0.0007	0.0015	J	0.0010	mg/L	5	08/30/2023 21:24	210812
Cobalt	NELAP	0.0004	0.0010		0.0015	mg/L	5	08/30/2023 21:24	210812
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 21:24	210812
Lithium	*	0.0015	0.0030		0.0047	mg/L	5	08/30/2023 21:24	210812
Molybdenum	*	0.0006	0.0015		< 0.0015	mg/L	5	08/30/2023 21:24	210812
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 21:24	210812
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	08/30/2023 21:24	210812

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-058 **Client Sample ID:** G301
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 11:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 17:40	210851



Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-059

Client Sample ID: G302

Matrix: GROUNDWATER

Collection Date: 08/09/2023 11:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		12.68	ft	1	08/09/2023 12:28	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		8.1	NTU	1	08/09/2023 12:28	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-80	mV	1	08/09/2023 12:28	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2460	µS/cm	1	08/09/2023 12:28	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.0	°C	1	08/09/2023 12:28	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.22	mg/L	1	08/09/2023 12:28	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.49		1	08/09/2023 12:28	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		474	mg/L	1	08/17/2023 13:42	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 13:42	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		998	mg/L	1	08/12/2023 10:08	R334965
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		356	mg/L	10	08/30/2023 17:54	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.28	mg/L	1	08/14/2023 11:56	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		9	mg/L	1	09/01/2023 14:10	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		157	mg/L	1	08/15/2023 17:53	210812
Magnesium	NELAP	0.0055	0.0500		65.8	mg/L	1	08/15/2023 17:53	210812
Potassium	NELAP	0.0400	0.100		1.58	mg/L	1	08/15/2023 17:53	210812
Sodium	NELAP	0.0180	0.0500		110	mg/L	1	08/15/2023 17:53	210812
<i>Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	08/30/2023 21:30	210812
Arsenic	NELAP	0.0004	0.0010	J	0.0010	mg/L	5	08/30/2023 21:30	210812
Barium	NELAP	0.0007	0.0010		0.0259	mg/L	5	08/30/2023 21:30	210812
Beryllium	NELAP	0.0003	0.0010		< 0.0010	mg/L	5	08/30/2023 21:30	210812
Boron	NELAP	0.0092	0.0200		1.93	mg/L	5	08/30/2023 21:30	210812
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	08/30/2023 21:30	210812
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	08/30/2023 21:30	210812
Cobalt	NELAP	0.0004	0.0010		0.0018	mg/L	5	08/30/2023 21:30	210812
Lead	NELAP	0.0006	0.0010	J	0.0006	mg/L	5	08/30/2023 21:30	210812
Lithium	*	0.0015	0.0030		0.0111	mg/L	5	08/30/2023 21:30	210812
Molybdenum	*	0.0006	0.0015	J	0.0006	mg/L	5	08/30/2023 21:30	210812
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 21:30	210812
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	08/30/2023 21:30	210812

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-059
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G302
Collection Date: 08/09/2023 11:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 17:42	210851



Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-060

Client Sample ID: G303

Matrix: GROUNDWATER

Collection Date: 08/09/2023 15:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.40	ft	1	08/09/2023 15:26	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		43	NTU	1	08/09/2023 15:26	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-91	mV	1	08/09/2023 15:26	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		3750	µS/cm	1	08/09/2023 15:26	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.4	°C	1	08/09/2023 15:26	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.18	mg/L	1	08/09/2023 15:26	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.80		1	08/09/2023 15:26	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		634	mg/L	1	08/17/2023 13:51	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 13:51	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		1620	mg/L	2.5	08/14/2023 9:15	R335033
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		723	mg/L	20	08/30/2023 17:57	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.27	mg/L	1	08/14/2023 12:12	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		27	mg/L	1	09/01/2023 14:15	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		190	mg/L	1	08/15/2023 17:54	210812
Magnesium	NELAP	0.0055	0.0500		159	mg/L	1	08/15/2023 17:54	210812
Potassium	NELAP	0.0400	0.100		3.11	mg/L	1	08/15/2023 17:54	210812
Sodium	NELAP	0.0180	0.0500		168	mg/L	1	08/15/2023 17:54	210812
<i>Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	08/30/2023 21:37	210812
Arsenic	NELAP	0.0004	0.0010		0.0026	mg/L	5	08/30/2023 21:37	210812
Barium	NELAP	0.0007	0.0010		0.0183	mg/L	5	08/30/2023 21:37	210812
Beryllium	NELAP	0.0003	0.0010		< 0.0010	mg/L	5	08/30/2023 21:37	210812
Boron	NELAP	0.0092	0.0200		1.95	mg/L	5	08/30/2023 21:37	210812
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	08/30/2023 21:37	210812
Chromium	NELAP	0.0007	0.0015	J	0.0014	mg/L	5	08/30/2023 21:37	210812
Cobalt	NELAP	0.0004	0.0010		0.0024	mg/L	5	08/30/2023 21:37	210812
Lead	NELAP	0.0006	0.0010		0.0011	mg/L	5	08/30/2023 21:37	210812
Lithium	*	0.0015	0.0030		0.0398	mg/L	5	08/30/2023 21:37	210812
Molybdenum	*	0.0006	0.0015		0.0020	mg/L	5	08/30/2023 21:37	210812
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 21:37	210812
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	08/30/2023 21:37	210812

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-060 **Client Sample ID:** G303
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 15:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 17:49	210851



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-061
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23

Client Sample ID: G305

Collection Date: 08/10/2023 12:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		9.19	ft	1	08/10/2023 12:36	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		13	NTU	1	08/10/2023 12:36	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-41	mV	1	08/10/2023 12:36	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		3230	µS/cm	1	08/10/2023 12:36	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.4	°C	1	08/10/2023 12:36	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.76	mg/L	1	08/10/2023 12:36	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		7.30		1	08/10/2023 12:36	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		216	mg/L	1	08/16/2023 10:50	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 10:50	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1580	mg/L	1	08/15/2023 10:45	R335101
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		863	mg/L	20	08/30/2023 18:21	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.49	mg/L	1	08/16/2023 10:34	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		21	mg/L	1	09/01/2023 14:18	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		188	mg/L	1	08/16/2023 17:40	210813
Magnesium	NELAP	0.0055	0.0500		96.5	mg/L	1	08/16/2023 17:40	210813
Potassium	NELAP	0.0400	0.100		0.549	mg/L	1	08/16/2023 17:40	210813
Sodium	NELAP	0.0180	0.0500		135	mg/L	1	08/16/2023 17:40	210813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010	J	0.0009	mg/L	5	09/01/2023 1:03	210813
Arsenic	NELAP	0.0004	0.0010	J	0.0007	mg/L	5	09/01/2023 1:03	210813
Barium	NELAP	0.0007	0.0010		0.0254	mg/L	5	09/07/2023 22:17	210813
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:03	210813
Boron	NELAP	0.0092	0.0200		2.66	mg/L	5	09/01/2023 1:03	210813
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:03	210813
Chromium	NELAP	0.0007	0.0015	J	0.0012	mg/L	5	09/01/2023 1:03	210813
Cobalt	NELAP	0.0001	0.0010	J	0.0006	mg/L	5	09/01/2023 1:03	210813
Lead	NELAP	0.0006	0.0010	J	0.0007	mg/L	5	09/07/2023 22:17	210813
Lithium	*	0.0015	0.0030		0.0085	mg/L	5	09/01/2023 1:03	210813
Molybdenum	*	0.0006	0.0015		0.0016	mg/L	5	09/01/2023 1:03	210813
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:03	210813
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 1:03	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-061 **Client Sample ID:** G305
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 12:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 17:56	210851



Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-062

Client Sample ID: G306

Matrix: GROUNDWATER

Collection Date: 08/10/2023 11:01

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		9.70	ft	1	08/10/2023 11:01	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		320	NTU	1	08/10/2023 11:01	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		143	mV	1	08/10/2023 11:01	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1220	µS/cm	1	08/10/2023 11:01	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.5	°C	1	08/10/2023 11:01	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.76	mg/L	1	08/10/2023 11:01	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.16		1	08/10/2023 11:01	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		276	mg/L	1	08/16/2023 10:57	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 10:57	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		455	mg/L	2.5	08/15/2023 10:45	R335101
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		141	mg/L	5	09/01/2023 13:35	R335914
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.18	mg/L	1	08/16/2023 10:46	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4	J	1	mg/L	1	09/01/2023 14:23	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		81.3	mg/L	1	08/16/2023 17:41	210813
Magnesium	NELAP	0.0055	0.0500		31.2	mg/L	1	08/16/2023 17:41	210813
Potassium	NELAP	0.0400	0.100		1.43	mg/L	1	08/16/2023 17:41	210813
Sodium	NELAP	0.0180	0.0500		39.5	mg/L	1	08/16/2023 17:41	210813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010	J	0.0007	mg/L	5	09/01/2023 1:10	210813
Arsenic	NELAP	0.0004	0.0010		0.0072	mg/L	5	09/01/2023 1:10	210813
Barium	NELAP	0.0007	0.0010		0.0700	mg/L	5	09/07/2023 22:30	210813
Beryllium	NELAP	0.0002	0.0010	J	0.0007	mg/L	5	09/01/2023 1:10	210813
Boron	NELAP	0.0092	0.0200		2.74	mg/L	5	09/01/2023 1:10	210813
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:10	210813
Chromium	NELAP	0.0007	0.0015		0.0211	mg/L	5	09/01/2023 1:10	210813
Cobalt	NELAP	0.0001	0.0010		0.0067	mg/L	5	09/01/2023 1:10	210813
Lead	NELAP	0.0006	0.0010		0.0059	mg/L	5	09/07/2023 22:30	210813
Lithium	*	0.0015	0.0030		0.0149	mg/L	5	09/01/2023 1:10	210813
Molybdenum	*	0.0006	0.0015	J	0.0014	mg/L	5	09/01/2023 1:10	210813
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:10	210813
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 1:10	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-062
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G306
Collection Date: 08/10/2023 11:01

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 17:58	210851



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-064
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G307D
Collection Date: 08/10/2023 12:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		7.89	ft	1	08/10/2023 12:12	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		20	NTU	1	08/10/2023 12:12	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-70	mV	1	08/10/2023 12:12	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2580	µS/cm	1	08/10/2023 12:12	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		19.8	°C	1	08/10/2023 12:12	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.79	mg/L	1	08/10/2023 12:12	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		7.17		1	08/10/2023 12:12	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		186	mg/L	1	08/16/2023 11:04	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 11:04	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		1080	mg/L	2.5	08/15/2023 10:46	R335101
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		589	mg/L	20	08/30/2023 18:36	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.60	mg/L	1	08/16/2023 10:47	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		14	mg/L	1	09/01/2023 14:31	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		136	mg/L	1	08/16/2023 17:42	210813
Magnesium	NELAP	0.0055	0.0500		61.4	mg/L	1	08/16/2023 17:42	210813
Potassium	NELAP	0.0400	0.100		0.695	mg/L	1	08/16/2023 17:42	210813
Sodium	NELAP	0.0180	0.0500		99.8	mg/L	1	08/16/2023 17:42	210813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010	J	0.0008	mg/L	5	09/01/2023 1:16	210813
Arsenic	NELAP	0.0004	0.0010		0.0019	mg/L	5	09/01/2023 1:16	210813
Barium	NELAP	0.0007	0.0010		0.0217	mg/L	5	09/07/2023 23:02	210813
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:16	210813
Boron	NELAP	0.0092	0.0200		2.54	mg/L	5	09/01/2023 1:16	210813
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:16	210813
Chromium	NELAP	0.0007	0.0015	J	0.0010	mg/L	5	09/01/2023 1:16	210813
Cobalt	NELAP	0.0001	0.0010	J	0.0009	mg/L	5	09/01/2023 1:16	210813
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/07/2023 23:02	210813
Lithium	*	0.0015	0.0030		0.0032	mg/L	5	09/01/2023 1:16	210813
Molybdenum	*	0.0006	0.0015		0.0054	mg/L	5	09/01/2023 1:16	210813
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:16	210813
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 1:16	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-064 **Client Sample ID:** G307D
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 12:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:00	210851



Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-065

Client Sample ID: G308

Matrix: GROUNDWATER

Collection Date: 08/10/2023 13:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		5.09	ft	1	08/10/2023 13:00	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		9.0	NTU	1	08/10/2023 13:00	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-3	mV	1	08/10/2023 13:00	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		3500	µS/cm	1	08/10/2023 13:00	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.2	°C	1	08/10/2023 13:00	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.49	mg/L	1	08/10/2023 13:00	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		7.26		1	08/10/2023 13:00	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		252	mg/L	1	08/16/2023 11:11	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 11:11	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1760	mg/L	1	08/15/2023 11:10	R335101
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		996	mg/L	20	08/30/2023 18:45	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.64	mg/L	1	08/16/2023 10:49	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		10	mg/L	1	09/01/2023 14:50	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		196	mg/L	1	08/16/2023 17:42	210813
Magnesium	NELAP	0.0055	0.0500		115	mg/L	1	08/16/2023 17:42	210813
Potassium	NELAP	0.0400	0.100		0.460	mg/L	1	08/16/2023 17:42	210813
Sodium	NELAP	0.0180	0.0500		152	mg/L	1	08/16/2023 17:42	210813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:23	210813
Arsenic	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	09/01/2023 1:23	210813
Barium	NELAP	0.0007	0.0010		0.0222	mg/L	5	09/07/2023 23:08	210813
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:23	210813
Boron	NELAP	0.0092	0.0200		2.64	mg/L	5	09/01/2023 1:23	210813
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:23	210813
Chromium	NELAP	0.0007	0.0015	J	0.0009	mg/L	5	09/01/2023 1:23	210813
Cobalt	NELAP	0.0001	0.0010	J	0.0004	mg/L	5	09/01/2023 1:23	210813
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/07/2023 23:08	210813
Lithium	*	0.0015	0.0030		0.0077	mg/L	5	09/01/2023 1:23	210813
Molybdenum	*	0.0006	0.0015		0.0016	mg/L	5	09/01/2023 1:23	210813
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:23	210813
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 1:23	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-065 **Client Sample ID:** G308
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 13:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:02	210851



Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-067

Client Sample ID: G310

Matrix: GROUNDWATER

Collection Date: 08/09/2023 10:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		10.30	ft	1	08/09/2023 10:36	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		1.1	NTU	1	08/09/2023 10:36	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		99	mV	1	08/09/2023 10:36	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2640	µS/cm	1	08/09/2023 10:36	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.5	°C	1	08/09/2023 10:36	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.48	mg/L	1	08/09/2023 10:36	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.78		1	08/09/2023 10:36	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		244	mg/L	1	08/17/2023 14:00	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 14:00	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1160	mg/L	1	08/14/2023 9:16	R335033
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		611	mg/L	20	08/30/2023 18:52	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.32	mg/L	1	08/14/2023 12:14	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		14	mg/L	1	09/01/2023 14:53	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		158	mg/L	1	08/15/2023 17:56	210812
Magnesium	NELAP	0.0055	0.0500		52.6	mg/L	1	08/15/2023 17:56	210812
Potassium	NELAP	0.0400	0.100		0.342	mg/L	1	08/15/2023 17:56	210812
Sodium	NELAP	0.0180	0.0500		144	mg/L	1	08/15/2023 17:56	210812
<i>Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	08/30/2023 21:43	210812
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	08/30/2023 21:43	210812
Barium	NELAP	0.0007	0.0010		0.0147	mg/L	5	08/30/2023 21:43	210812
Beryllium	NELAP	0.0003	0.0010		< 0.0010	mg/L	5	08/30/2023 21:43	210812
Boron	NELAP	0.0092	0.0200		1.95	mg/L	5	08/30/2023 21:43	210812
Cadmium	NELAP	0.0002	0.0010	J	0.0002	mg/L	5	08/30/2023 21:43	210812
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	08/30/2023 21:43	210812
Cobalt	NELAP	0.0004	0.0010		0.0013	mg/L	5	08/30/2023 21:43	210812
Lead	NELAP	0.0006	0.0010	J	0.0006	mg/L	5	08/30/2023 21:43	210812
Lithium	*	0.0015	0.0030		0.0060	mg/L	5	08/30/2023 21:43	210812
Molybdenum	*	0.0006	0.0015		< 0.0015	mg/L	5	08/30/2023 21:43	210812
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 21:43	210812
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	08/30/2023 21:43	210812

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-067
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G310
Collection Date: 08/09/2023 10:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:09	210857



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-068
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23

Client Sample ID: G312

Collection Date: 08/09/2023 12:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		14.00	ft	1	08/09/2023 12:28	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		8.2	NTU	1	08/09/2023 12:28	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		3	mV	1	08/09/2023 12:28	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		3870	µS/cm	1	08/09/2023 12:28	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.6	°C	1	08/09/2023 12:28	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.53	mg/L	1	08/09/2023 12:28	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.10		1	08/09/2023 12:28	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		566	mg/L	1	08/17/2023 14:07	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 14:07	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		2010	mg/L	1	08/14/2023 9:16	R335033
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		965	mg/L	20	08/30/2023 19:17	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.22	mg/L	1	08/14/2023 12:16	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		31	mg/L	1	09/01/2023 14:58	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		242	mg/L	1	08/15/2023 18:07	210812
Magnesium	NELAP	0.0055	0.0500		176	mg/L	1	08/15/2023 18:07	210812
Potassium	NELAP	0.0400	0.100		0.850	mg/L	1	08/15/2023 18:07	210812
Sodium	NELAP	0.0180	0.0500		139	mg/L	1	08/15/2023 18:07	210812
<i>Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	08/30/2023 21:49	210812
Arsenic	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	08/30/2023 21:49	210812
Barium	NELAP	0.0007	0.0010		0.0306	mg/L	5	08/30/2023 21:49	210812
Beryllium	NELAP	0.0003	0.0010	J	0.0003	mg/L	5	08/30/2023 21:49	210812
Boron	NELAP	0.0092	0.0200		3.51	mg/L	5	08/30/2023 21:49	210812
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	08/30/2023 21:49	210812
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	08/30/2023 21:49	210812
Cobalt	NELAP	0.0004	0.0010		0.0046	mg/L	5	08/30/2023 21:49	210812
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 21:49	210812
Lithium	*	0.0015	0.0030		0.0180	mg/L	5	08/30/2023 21:49	210812
Molybdenum	*	0.0060	0.0150		< 0.0150	mg/L	50	09/13/2023 20:11	210812
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 21:49	210812
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	08/30/2023 21:49	210812



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-068 **Client Sample ID:** G312
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 12:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
<i>Elevated reporting limit due to matrix interference.</i>									
<i>Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.</i>									
<i>Results for Mn are estimated due to sample result being outside the calibration range.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:16	210857



Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-069

Client Sample ID: G313

Matrix: GROUNDWATER

Collection Date: 08/09/2023 14:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		3.01	ft	1	08/09/2023 14:12	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		9.3	NTU	1	08/09/2023 14:12	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-36	mV	1	08/09/2023 14:12	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		3380	µS/cm	1	08/09/2023 14:12	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		18.1	°C	1	08/09/2023 14:12	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.44	mg/L	1	08/09/2023 14:12	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.68		1	08/09/2023 14:12	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		501	mg/L	1	08/17/2023 14:15	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 14:15	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1500	mg/L	1	08/14/2023 10:22	R335033
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		667	mg/L	20	08/30/2023 19:24	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.32	mg/L	1	08/14/2023 12:18	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		22	mg/L	1	09/01/2023 15:01	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		200	mg/L	1	08/15/2023 18:08	210812
Magnesium	NELAP	0.0055	0.0500		106	mg/L	1	08/15/2023 18:08	210812
Potassium	NELAP	0.0400	0.100		1.20	mg/L	1	08/15/2023 18:08	210812
Sodium	NELAP	0.0180	0.0500		153	mg/L	1	08/15/2023 18:08	210812

Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	08/30/2023 21:56	210812
Arsenic	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	08/30/2023 21:56	210812
Barium	NELAP	0.0007	0.0010		0.0193	mg/L	5	08/30/2023 21:56	210812
Beryllium	NELAP	0.0003	0.0010		< 0.0010	mg/L	5	08/30/2023 21:56	210812
Boron	NELAP	0.0092	0.0200		3.63	mg/L	5	08/30/2023 21:56	210812
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	08/30/2023 21:56	210812
Chromium	NELAP	0.0007	0.0015	J	0.0008	mg/L	5	08/30/2023 21:56	210812
Cobalt	NELAP	0.0004	0.0010	J	0.0008	mg/L	5	08/30/2023 21:56	210812
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 21:56	210812
Lithium	*	0.0015	0.0030		0.0181	mg/L	5	08/30/2023 21:56	210812
Molybdenum	*	0.0006	0.0015	J	0.0012	mg/L	5	08/30/2023 21:56	210812
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 21:56	210812
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	08/30/2023 21:56	210812

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-069 **Client Sample ID:** G313
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 14:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:18	210857



Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-070

Client Sample ID: G314

Matrix: GROUNDWATER

Collection Date: 08/09/2023 14:33

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		4.88	ft	1	08/09/2023 14:33	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.2	NTU	1	08/09/2023 14:33	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-41	mV	1	08/09/2023 14:33	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		6680	µS/cm	1	08/09/2023 14:33	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.7	°C	1	08/09/2023 14:33	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.45	mg/L	1	08/09/2023 14:33	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.39		1	08/09/2023 14:33	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		710	mg/L	1	08/17/2023 14:24	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 14:24	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		3780	mg/L	2.5	08/14/2023 10:22	R335033
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		2070	mg/L	50	08/30/2023 19:38	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.21	mg/L	1	08/14/2023 12:20	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		31	mg/L	1	09/01/2023 15:06	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		631	mg/L	1	08/15/2023 18:10	210812
Magnesium	NELAP	0.0055	0.0500		295	mg/L	1	08/15/2023 18:10	210812
Potassium	NELAP	0.0400	0.100		4.06	mg/L	1	08/15/2023 18:10	210812
Sodium	NELAP	0.0180	0.0500		136	mg/L	1	08/15/2023 18:10	210812
<i>Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		0.0011	mg/L	5	08/30/2023 22:47	210812
Arsenic	NELAP	0.0004	0.0010	J	0.0007	mg/L	5	08/30/2023 22:47	210812
Barium	NELAP	0.0007	0.0010		0.0183	mg/L	5	08/30/2023 22:47	210812
Beryllium	NELAP	0.0003	0.0010		< 0.0010	mg/L	5	08/30/2023 22:47	210812
Boron	NELAP	0.0092	0.0200		0.130	mg/L	5	08/30/2023 22:47	210812
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	08/30/2023 22:47	210812
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	08/30/2023 22:47	210812
Cobalt	NELAP	0.0004	0.0010		0.0078	mg/L	5	08/30/2023 22:47	210812
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 22:47	210812
Lithium	*	0.0015	0.0030		0.0056	mg/L	5	08/30/2023 22:47	210812
Molybdenum	*	0.0006	0.0015		0.0021	mg/L	5	08/30/2023 22:47	210812
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 22:47	210812
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	08/30/2023 22:47	210812

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-070
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G314
Collection Date: 08/09/2023 14:33

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:20	210857



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-071
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23

Client Sample ID: G314D

Collection Date: 08/09/2023 14:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		7.78	ft	1	08/09/2023 14:53	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		9.6	NTU	1	08/09/2023 14:53	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-45	mV	1	08/09/2023 14:53	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		5230	µS/cm	1	08/09/2023 14:53	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.1	°C	1	08/09/2023 14:53	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.64	mg/L	1	08/09/2023 14:53	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.80		1	08/09/2023 14:53	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		719	mg/L	1	08/17/2023 14:33	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 14:33	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		2380	mg/L	2.5	08/14/2023 10:22	R335033
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		1090	mg/L	50	08/30/2023 19:46	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.65	mg/L	1	08/14/2023 12:23	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	8		63	mg/L	2	09/01/2023 15:09	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		274	mg/L	1	08/15/2023 18:12	210812
Magnesium	NELAP	0.0055	0.0500		94.3	mg/L	1	08/15/2023 18:12	210812
Potassium	NELAP	0.0400	0.100		3.54	mg/L	1	08/15/2023 18:12	210812
Sodium	NELAP	0.0180	0.0500		436	mg/L	1	08/15/2023 18:12	210812
<i>Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	0.0007	mg/L	5	08/30/2023 22:53	210812
Arsenic	NELAP	0.0004	0.0010		0.0013	mg/L	5	08/30/2023 22:53	210812
Barium	NELAP	0.0007	0.0010		0.0351	mg/L	5	08/30/2023 22:53	210812
Beryllium	NELAP	0.0003	0.0010		< 0.0010	mg/L	5	08/30/2023 22:53	210812
Boron	NELAP	0.0092	0.0200		0.190	mg/L	5	08/30/2023 22:53	210812
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	08/30/2023 22:53	210812
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	08/30/2023 22:53	210812
Cobalt	NELAP	0.0004	0.0010		0.0036	mg/L	5	08/30/2023 22:53	210812
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 22:53	210812
Lithium	*	0.0015	0.0030		0.0122	mg/L	5	08/30/2023 22:53	210812
Molybdenum	*	0.0006	0.0015		0.0045	mg/L	5	08/30/2023 22:53	210812
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 22:53	210812
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	08/30/2023 22:53	210812

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-071 **Client Sample ID:** G314D
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 14:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:27	210857



Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-072

Client Sample ID: G315

Matrix: GROUNDWATER

Collection Date: 08/10/2023 11:29

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		3.50	ft	1	08/10/2023 11:29	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		9.2	NTU	1	08/10/2023 11:29	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		98	mV	1	08/10/2023 11:29	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2600	µS/cm	1	08/10/2023 11:29	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.1	°C	1	08/10/2023 11:29	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.81	mg/L	1	08/10/2023 11:29	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.69		1	08/10/2023 11:29	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		240	mg/L	1	08/16/2023 11:26	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/16/2023 11:26	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1190	mg/L	1	08/15/2023 11:10	R335101
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		603	mg/L	20	08/30/2023 19:48	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.30	mg/L	1	08/16/2023 10:51	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		14	mg/L	1	09/01/2023 15:14	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		147	mg/L	1	08/16/2023 17:43	210813
Magnesium	NELAP	0.0055	0.0500		66.6	mg/L	1	08/16/2023 17:43	210813
Potassium	NELAP	0.0400	0.100		0.299	mg/L	1	08/16/2023 17:43	210813
Sodium	NELAP	0.0180	0.0500		117	mg/L	1	08/16/2023 17:43	210813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:29	210813
Arsenic	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	09/01/2023 1:29	210813
Barium	NELAP	0.0007	0.0010		0.0175	mg/L	5	09/07/2023 23:14	210813
Beryllium	NELAP	0.0002	0.0010	J	0.0006	mg/L	5	09/01/2023 1:29	210813
Boron	NELAP	0.0092	0.0200		1.68	mg/L	5	09/01/2023 1:29	210813
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 1:29	210813
Chromium	NELAP	0.0007	0.0015	J	0.0007	mg/L	5	09/01/2023 1:29	210813
Cobalt	NELAP	0.0001	0.0010		0.0014	mg/L	5	09/01/2023 1:29	210813
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/07/2023 23:14	210813
Lithium	*	0.0015	0.0030		0.0066	mg/L	5	09/01/2023 1:29	210813
Molybdenum	*	0.0006	0.0015	J	0.0006	mg/L	5	09/01/2023 1:29	210813
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 1:29	210813
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 1:29	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-072 **Client Sample ID:** G315
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 11:29

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:29	210857



Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-073

Client Sample ID: G316

Matrix: GROUNDWATER

Collection Date: 08/09/2023 13:43

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		11.70	ft	1	08/09/2023 13:43	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		9.9	NTU	1	08/09/2023 13:43	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-114	mV	1	08/09/2023 13:43	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		3740	µS/cm	1	08/09/2023 13:43	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.1	°C	1	08/09/2023 13:43	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.53	mg/L	1	08/09/2023 13:43	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.73		1	08/09/2023 13:43	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		646	mg/L	1	08/17/2023 14:42	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 14:42	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		1620	mg/L	2.5	08/14/2023 10:23	R335033
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		662	mg/L	20	08/30/2023 20:13	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.28	mg/L	1	08/14/2023 12:34	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		26	mg/L	1	09/01/2023 15:17	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		203	mg/L	1	08/15/2023 18:13	210812
Magnesium	NELAP	0.0055	0.0500		165	mg/L	1	08/15/2023 18:13	210812
Potassium	NELAP	0.0400	0.100		2.41	mg/L	1	08/15/2023 18:13	210812
Sodium	NELAP	0.0180	0.0500		108	mg/L	1	08/15/2023 18:13	210812
<i>Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	08/30/2023 23:00	210812
Arsenic	NELAP	0.0004	0.0010		0.0095	mg/L	5	08/30/2023 23:00	210812
Barium	NELAP	0.0007	0.0010		0.0743	mg/L	5	08/30/2023 23:00	210812
Beryllium	NELAP	0.0003	0.0010		< 0.0010	mg/L	5	08/30/2023 23:00	210812
Boron	NELAP	0.0092	0.0200		0.441	mg/L	5	08/30/2023 23:00	210812
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	08/30/2023 23:00	210812
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	08/30/2023 23:00	210812
Cobalt	NELAP	0.0004	0.0010		0.0028	mg/L	5	08/30/2023 23:00	210812
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 23:00	210812
Lithium	*	0.0015	0.0030	J	0.0017	mg/L	5	08/30/2023 23:00	210812
Molybdenum	*	0.0006	0.0015		0.0044	mg/L	5	08/30/2023 23:00	210812
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 23:00	210812
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	08/30/2023 23:00	210812

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-073 **Client Sample ID:** G316
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 13:43

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 18:32	210857



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-099 **Client Sample ID:** SG-03
Matrix: GROUNDWATER **Collection Date:** 08/08/2023 12:04

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		9.65	ft	1	08/08/2023 12:04	R335486



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-104
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23

Client Sample ID: XPW01

Collection Date: 08/10/2023 13:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		5.29	ft	1	08/10/2023 13:22	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		3.5	NTU	1	08/10/2023 13:22	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-104	mV	1	08/10/2023 13:22	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2420	µS/cm	1	08/10/2023 13:22	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		18.3	°C	1	08/10/2023 13:22	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.47	mg/L	1	08/10/2023 13:22	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		7.66		1	08/10/2023 13:22	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		220	mg/L	1	08/17/2023 13:18	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 13:18	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20	B	1080	mg/L	1	08/15/2023 11:37	R335101
Sample result(s) for TDS exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		666	mg/L	20	08/30/2023 23:21	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.64	mg/L	1	08/14/2023 12:38	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		8	mg/L	1	08/30/2023 23:17	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		221	mg/L	1	08/16/2023 12:17	210826
Magnesium	NELAP	0.0055	0.0500		31.6	mg/L	1	08/16/2023 12:17	210826
Potassium	NELAP	0.400	1.00		22.7	mg/L	10	08/17/2023 9:43	210826
Sodium	NELAP	0.0180	0.0500		76.8	mg/L	1	08/16/2023 12:17	210826
Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010	J	0.0008	mg/L	5	09/01/2023 2:39	210826
Arsenic	NELAP	0.0004	0.0010		0.0039	mg/L	5	09/01/2023 2:39	210826
Barium	NELAP	0.0007	0.0010		0.0589	mg/L	5	09/07/2023 17:23	210826
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 2:39	210826
Boron	NELAP	0.0092	0.0200		3.97	mg/L	5	09/01/2023 2:39	210826
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 2:39	210826
Chromium	NELAP	0.0007	0.0015	J	0.0012	mg/L	5	09/01/2023 2:39	210826
Cobalt	NELAP	0.0001	0.0010	J	0.0002	mg/L	5	09/01/2023 2:39	210826
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/07/2023 17:23	210826
Lithium	*	0.0015	0.0030		0.0662	mg/L	5	09/01/2023 2:39	210826
Molybdenum	*	0.0006	0.0015		0.0696	mg/L	5	09/01/2023 2:39	210826
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 2:39	210826
Thallium	NELAP	0.0010	0.0020	J	0.0011	mg/L	5	09/01/2023 2:39	210826



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-104 **Client Sample ID:** XPW01
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 13:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
<i>Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 19:15	210857



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-105
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23

Client Sample ID: XPW02

Collection Date: 08/10/2023 13:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		10.30	ft	1	08/10/2023 13:45	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.6	NTU	1	08/10/2023 13:45	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-111	mV	1	08/10/2023 13:45	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1280	µS/cm	1	08/10/2023 13:45	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		18.7	°C	1	08/10/2023 13:45	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.46	mg/L	1	08/10/2023 13:45	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		7.58		1	08/10/2023 13:45	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		216	mg/L	1	08/17/2023 13:25	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 13:25	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20	B	522	mg/L	1	08/15/2023 11:37	R335101
Sample result(s) for TDS exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		201	mg/L	10	08/30/2023 23:30	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.56	mg/L	1	08/14/2023 11:58	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		8	mg/L	1	08/30/2023 23:25	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100	S	103	mg/L	1	08/16/2023 12:19	210826
Magnesium	NELAP	0.0055	0.0500		15.5	mg/L	1	08/16/2023 12:19	210826
Potassium	NELAP	0.200	0.500		16.2	mg/L	5	08/17/2023 9:44	210826
Sodium	NELAP	0.0180	0.0500	S	42.3	mg/L	1	08/16/2023 12:19	210826
Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
Matrix spike control limits are not applicable due to high sample/spike ratio.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010		< 0.0010	mg/L	5	09/01/2023 3:17	210826
Arsenic	NELAP	0.0004	0.0010		0.0022	mg/L	5	09/01/2023 3:17	210826
Barium	NELAP	0.0007	0.0010		0.118	mg/L	5	09/08/2023 13:26	210826
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 3:17	210826
Boron	NELAP	0.0092	0.0200		1.92	mg/L	5	09/01/2023 3:17	210826
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/01/2023 3:17	210826
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/01/2023 3:17	210826
Cobalt	NELAP	0.0001	0.0010	J	0.0001	mg/L	5	09/01/2023 3:17	210826
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/07/2023 17:42	210826
Lithium	*	0.0015	0.0030		0.0537	mg/L	5	09/01/2023 3:17	210826
Molybdenum	*	0.0006	0.0015		0.0208	mg/L	5	09/01/2023 3:17	210826
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/01/2023 3:17	210826



Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab ID: 23071810-105

Client Sample ID: XPW02

Matrix: GROUNDWATER

Collection Date: 08/10/2023 13:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	09/01/2023 3:17	210826
<i>Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/24/2023 11:42	211205



Client: Ramboll **Work Order:** 23071810
Client Project: COF-23Q3 **Report Date:** 21-Nov-23
Lab ID: 23071810-106 **Client Sample ID:** XSG-01
Matrix: GROUNDWATER **Collection Date:** 08/08/2023 12:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.25	ft	1	08/08/2023 12:19	R335486



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-107
Matrix: AQUEOUS

Work Order: 23071810
Report Date: 21-Nov-23

Client Sample ID: Field Blank

Collection Date: 08/15/2023 10:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		2	mg/L	1	08/17/2023 13:33	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 13:33	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		< 20	mg/L	1	08/16/2023 12:39	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10	J	7	mg/L	1	08/30/2023 23:33	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10	J	0.06	mg/L	1	08/16/2023 14:38	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		< 4	mg/L	1	08/30/2023 23:34	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.10	J	0.042	mg/L	1	08/17/2023 10:29	210926
Magnesium	NELAP	0.0055	0.0500		< 0.0500	mg/L	1	08/18/2023 15:59	210926
Potassium	NELAP	0.0400	0.100		< 0.100	mg/L	1	08/17/2023 10:29	210926
Sodium	NELAP	0.018	0.050	J	0.030	mg/L	1	08/17/2023 10:29	210926
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010		< 0.0010	mg/L	5	08/30/2023 12:36	210926
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	09/13/2023 22:48	210926
Barium	NELAP	0.0007	0.0010		< 0.0010	mg/L	5	09/13/2023 22:48	210926
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/13/2023 22:48	210926
Boron	NELAP	0.0092	0.0200		0.104	mg/L	5	09/11/2023 12:58	210926
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	09/13/2023 22:48	210926
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	09/13/2023 22:48	210926
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	08/30/2023 12:36	210926
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	09/13/2023 22:48	210926
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	08/30/2023 12:36	210926
Molybdenum	*	0.0006	0.0015		< 0.0015	mg/L	5	09/13/2023 22:48	210926
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 12:36	210926
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	08/30/2023 12:36	210926
Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/24/2023 11:44	211205



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-111
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G301 Duplicate
Collection Date: 08/09/2023 11:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.11	ft	1	08/09/2023 11:13	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		8.4	NTU	1	08/09/2023 11:13	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-96	mV	1	08/09/2023 11:13	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2190	µS/cm	1	08/09/2023 11:13	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.5	°C	1	08/09/2023 11:13	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.44	mg/L	1	08/09/2023 11:13	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		6.36		1	08/09/2023 11:13	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		158	mg/L	1	08/17/2023 14:51	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	08/17/2023 14:51	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		962	mg/L	1	08/14/2023 11:45	R335033
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		534	mg/L	20	08/31/2023 0:12	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.28	mg/L	1	08/14/2023 12:41	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		13	mg/L	1	09/01/2023 16:02	R335932
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		116	mg/L	1	08/15/2023 18:30	210812
Magnesium	NELAP	0.0055	0.0500		44.0	mg/L	1	08/15/2023 18:30	210812
Potassium	NELAP	0.0400	0.100		1.78	mg/L	1	08/15/2023 18:30	210812
Sodium	NELAP	0.0180	0.0500		115	mg/L	1	08/15/2023 18:30	210812
<i>Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	08/30/2023 23:12	210812
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	08/30/2023 23:12	210812
Barium	NELAP	0.0007	0.0010		0.0167	mg/L	5	08/30/2023 23:12	210812
Beryllium	NELAP	0.0003	0.0010		< 0.0010	mg/L	5	08/30/2023 23:12	210812
Boron	NELAP	0.0092	0.0200		2.15	mg/L	5	08/30/2023 23:12	210812
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	08/30/2023 23:12	210812
Chromium	NELAP	0.0007	0.0015	J	0.0007	mg/L	5	08/30/2023 23:12	210812
Cobalt	NELAP	0.0004	0.0010		0.0016	mg/L	5	08/30/2023 23:12	210812
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 23:12	210812
Lithium	*	0.0015	0.0030		0.0045	mg/L	5	08/30/2023 23:12	210812
Molybdenum	*	0.0006	0.0015		< 0.0015	mg/L	5	08/30/2023 23:12	210812
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	08/30/2023 23:12	210812
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	08/30/2023 23:12	210812

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.



Client: Ramboll
Client Project: COF-23Q3
Lab ID: 23071810-111
Matrix: GROUNDWATER

Work Order: 23071810
Report Date: 21-Nov-23
Client Sample ID: G301 Duplicate
Collection Date: 08/09/2023 11:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		< 0.00020	mg/L	1	08/15/2023 19:30	210858



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23071810-051	G281	Groundwater	7	08/14/2023 16:06
23071810-058	G301	Groundwater	6	08/09/2023 11:13
23071810-059	G302	Groundwater	6	08/09/2023 11:55
23071810-060	G303	Groundwater	6	08/09/2023 15:26
23071810-061	G305	Groundwater	6	08/10/2023 12:36
23071810-062	G306	Groundwater	6	08/10/2023 11:01
23071810-063	G307	Groundwater	6	08/10/2023 0:00
23071810-064	G307D	Groundwater	6	08/10/2023 12:12
23071810-065	G308	Groundwater	6	08/10/2023 13:00
23071810-067	G310	Groundwater	6	08/09/2023 10:36
23071810-068	G312	Groundwater	6	08/09/2023 12:28
23071810-069	G313	Groundwater	6	08/09/2023 14:12
23071810-070	G314	Groundwater	6	08/09/2023 14:33
23071810-071	G314D	Groundwater	6	08/09/2023 14:53
23071810-072	G315	Groundwater	6	08/10/2023 11:29
23071810-073	G316	Groundwater	6	08/09/2023 13:43
23071810-098	SG-02	Groundwater	1	08/08/2023 0:00
23071810-099	SG-03	Groundwater	1	08/08/2023 12:04
23071810-104	XPW01	Groundwater	6	08/10/2023 13:22
23071810-105	XPW02	Groundwater	6	08/10/2023 13:45
23071810-106	XSG-01	Groundwater	1	08/08/2023 12:19
23071810-107	Field Blank	Aqueous	8	08/15/2023 10:35
23071810-111	G301 Duplicate	Groundwater	6	08/09/2023 11:13



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
23071810-051A	G281	08/14/2023 16:06	08/14/2023 18:10		
	Ferrous Iron by CHEMets Kit				08/14/2023 16:06
	Field Elevation Measurements				08/14/2023 16:06
	Standard Methods 2130 B Field				08/14/2023 16:06
	Standard Methods 18th Ed. 2580 B Field				08/14/2023 16:06
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 13:58
	Standard Methods 2320 B 1997, 2011				08/16/2023 13:58
	Standard Methods 2510 B Field				08/14/2023 16:06
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 11:41
	Standard Methods 2550 B Field				08/14/2023 16:06
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/15/2023 16:29
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 13:26
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-O G Field				08/14/2023 16:06
	Standard Methods 4500-P E 1999				08/15/2023 12:47
	Standard Methods 4500-P E 1999, 2011				08/15/2023 13:35
	SW-846 9036 (Total)				08/30/2023 16:58
	SW-846 9040B Field				08/14/2023 16:06
	SW-846 9214 (Total)				08/16/2023 12:23
	SW-846 9251 (Total)				08/30/2023 16:53
23071810-051B	G281	08/14/2023 16:06	08/14/2023 18:10		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 9:52
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 9:52
	Standard Methods 2550 B Field				08/14/2023 16:06
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/15/2023 16:32
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/15/2023 14:19
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/15/2023 13:37
	Standard Methods 4500-P E (Dissolved) 1999				08/15/2023 12:47
	SW-846 9036 (Dissolved)				08/23/2023 17:18
	SW-846 9251 (Dissolved)				08/23/2023 17:13
23071810-051C	G281	08/14/2023 16:06	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 11:12	08/16/2023 16:52
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/01/2023 7:26
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/07/2023 20:41
	SW-846 7470A (Total)			08/22/2023 13:22	08/24/2023 19:55
23071810-051D	G281	08/14/2023 16:06	08/14/2023 18:10		



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Test Name	Prep Date/Time	Analysis Date/Time
				SW-846 3005A, 6010B, Metals by ICP (Dissolved)	08/15/2023 11:21	08/16/2023 17:22
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)	08/15/2023 11:21	09/01/2023 18:59
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)	08/15/2023 11:21	09/14/2023 5:35
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)	08/15/2023 11:21	09/14/2023 21:42
23071810-051E	G281	08/14/2023 16:06	08/14/2023 18:10	SW-846 9012A (Total)	08/15/2023 20:13	08/16/2023 9:52
23071810-051F	G281	08/14/2023 16:06	08/14/2023 18:10	SW-846 9060A		09/05/2023 18:47
23071810-051G	G281	08/14/2023 16:06	08/14/2023 18:10	SW-846 9060A		08/29/2023 0:55
23071810-058A	G301	08/09/2023 11:13	08/09/2023 17:52	Ferrous Iron by CHEMets Kit		08/09/2023 11:13
				Field Elevation Measurements		08/09/2023 11:13
				Standard Methods 2130 B Field		08/09/2023 11:13
				Standard Methods 18th Ed. 2580 B Field		08/09/2023 11:13
				Standard Methods 2320 B (Total) 1997, 2011		08/17/2023 13:37
				Standard Methods 2320 B 1997, 2011		08/17/2023 13:37
				Standard Methods 2510 B Field		08/09/2023 11:13
				Standard Methods 2540 C (Total) 1997, 2011		08/12/2023 10:08
				Standard Methods 2550 B Field		08/09/2023 11:13
				Standard Methods 4500-NO2 B (Total) 2000, 2011		08/10/2023 16:47
				Standard Methods 4500-NO3 F (Total) 2000, 2011		08/10/2023 19:11
				Standard Methods 4500-NO3 F (Total) 2000, 2011		08/10/2023 19:11
				Standard Methods 4500-O G Field		08/09/2023 11:13
				Standard Methods 4500-P E 1999		08/11/2023 0:00
				Standard Methods 4500-P E 1999, 2011		08/10/2023 13:26
				SW-846 9036 (Total)		08/30/2023 17:40
				SW-846 9040B Field		08/09/2023 11:13
				SW-846 9214 (Total)		08/14/2023 11:54
				SW-846 9251 (Total)		09/01/2023 14:07
23071810-058B	G301	08/09/2023 11:13	08/09/2023 17:52	Standard Methods 2320 B (Dissolved) 1997, 2011		08/15/2023 13:07
				Standard Methods 2320 B (Dissolved) 1997, 2011		08/15/2023 13:07
				Standard Methods 4500-NO2 B (Dissolved) 2000, 2011		08/10/2023 16:40
				Standard Methods 4500-NO3 F (Dissolved) 2000, 2011		08/10/2023 18:00
				Standard Methods 4500-NO3 F (Dissolved) 2000, 2011		08/10/2023 18:00
				Standard Methods 4500-P E (Dissolved) 1999, 2011		08/10/2023 13:27



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Test Name	Prep Date/Time	Analysis Date/Time
				Standard Methods 4500-P E (Dissolved) 1999		08/11/2023 0:00
				SW-846 9036 (Dissolved)		08/29/2023 12:45
				SW-846 9251 (Dissolved)		08/23/2023 18:15
23071810-058C	G301	08/09/2023 11:13	08/09/2023 17:52			
				SW-846 3005A, 6010B, Metals by ICP (Total)	08/14/2023 11:42	08/15/2023 17:51
				SW-846 3005A, 6020A, Metals by ICPMS (Total)	08/14/2023 11:42	08/30/2023 21:24
				SW-846 3005A, 6020A, Metals by ICPMS (Total)	08/14/2023 11:42	09/13/2023 18:55
				SW-846 7470A (Total)	08/14/2023 16:33	08/15/2023 17:40
23071810-058D	G301	08/09/2023 11:13	08/09/2023 17:52			
				SW-846 3005A, 6010B, Metals by ICP (Dissolved)	08/14/2023 12:00	08/15/2023 17:07
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)	08/14/2023 12:00	09/13/2023 15:51
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)	08/14/2023 12:00	09/13/2023 15:56
23071810-058E	G301	08/09/2023 11:13	08/09/2023 17:52			
				SW-846 9060A		09/05/2023 19:23
23071810-058F	G301	08/09/2023 11:13	08/09/2023 17:52			
				SW-846 9060A		08/29/2023 1:19
23071810-059A	G302	08/09/2023 11:55	08/09/2023 17:52			
				Ferrous Iron by CHEMets Kit		08/09/2023 12:28
				Field Elevation Measurements		08/09/2023 12:28
				Standard Methods 2130 B Field		08/09/2023 12:28
				Standard Methods 18th Ed. 2580 B Field		08/09/2023 12:28
				Standard Methods 2320 B (Total) 1997, 2011		08/17/2023 13:42
				Standard Methods 2320 B 1997, 2011		08/17/2023 13:42
				Standard Methods 2510 B Field		08/09/2023 12:28
				Standard Methods 2540 C (Total) 1997, 2011		08/12/2023 10:08
				Standard Methods 2550 B Field		08/09/2023 12:28
				Standard Methods 4500-NO2 B (Total) 2000, 2011		08/10/2023 16:47
				Standard Methods 4500-NO3 F (Total) 2000, 2011		08/10/2023 19:26
				Standard Methods 4500-NO3 F (Total) 2000, 2011		08/10/2023 19:26
				Standard Methods 4500-O G Field		08/09/2023 12:28
				Standard Methods 4500-P E 1999		08/11/2023 0:00
				Standard Methods 4500-P E 1999, 2011		08/10/2023 13:27
				SW-846 9036 (Total)		08/30/2023 17:54
				SW-846 9040B Field		08/09/2023 12:28
				SW-846 9214 (Total)		08/14/2023 11:56
				SW-846 9251 (Total)		09/01/2023 14:10
23071810-059B	G302	08/09/2023 11:55	08/09/2023 17:52			



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 13:13
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 13:13
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/10/2023 16:40
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/10/2023 18:03
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/10/2023 18:03
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/10/2023 13:28
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/23/2023 18:43
	SW-846 9251 (Dissolved)				08/23/2023 18:39
23071810-059C	G302	08/09/2023 11:55	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:42	08/15/2023 17:53
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:42	08/30/2023 21:30
	SW-846 7470A (Total)			08/14/2023 16:33	08/15/2023 17:42
23071810-059D	G302	08/09/2023 11:55	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 17:08
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	09/13/2023 16:02
23071810-059E	G302	08/09/2023 11:55	08/09/2023 17:52		
	SW-846 9060A				09/05/2023 19:31
23071810-059F	G302	08/09/2023 11:55	08/09/2023 17:52		
	SW-846 9060A				08/29/2023 1:55
23071810-060A	G303	08/09/2023 15:26	08/09/2023 17:52		
	Ferrous Iron by CHEMets Kit				08/09/2023 15:26
	Field Elevation Measurements				08/09/2023 15:26
	Standard Methods 2130 B Field				08/09/2023 15:26
	Standard Methods 18th Ed. 2580 B Field				08/09/2023 15:26
	Standard Methods 2320 B (Total) 1997, 2011				08/17/2023 13:51
	Standard Methods 2320 B 1997, 2011				08/17/2023 13:51
	Standard Methods 2510 B Field				08/09/2023 15:26
	Standard Methods 2540 C (Total) 1997, 2011				08/14/2023 9:15
	Standard Methods 2550 B Field				08/09/2023 15:26
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/10/2023 16:48
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/10/2023 19:28
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/10/2023 19:28
	Standard Methods 4500-O G Field				08/09/2023 15:26
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/10/2023 13:29
	SW-846 9036 (Total)				08/30/2023 17:57



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Test Name	Prep Date/Time	Analysis Date/Time
				SW-846 9040B Field		08/09/2023 15:26
				SW-846 9214 (Total)		08/14/2023 12:12
				SW-846 9251 (Total)		09/01/2023 14:15
23071810-060B	G303	08/09/2023 15:26	08/09/2023 17:52	Standard Methods 2320 B (Dissolved) 1997, 2011		08/15/2023 13:20
				Standard Methods 2320 B (Dissolved) 1997, 2011		08/15/2023 13:20
				Standard Methods 4500-NO2 B (Dissolved) 2000, 2011		08/10/2023 16:41
				Standard Methods 4500-NO3 F (Dissolved) 2000, 2011		08/10/2023 18:18
				Standard Methods 4500-NO3 F (Dissolved) 2000, 2011		08/10/2023 18:18
				Standard Methods 4500-P E (Dissolved) 1999, 2011		08/10/2023 13:29
				Standard Methods 4500-P E (Dissolved) 1999		08/11/2023 0:00
				SW-846 9036 (Dissolved)		08/29/2023 12:53
				SW-846 9251 (Dissolved)		08/23/2023 18:47
23071810-060C	G303	08/09/2023 15:26	08/09/2023 17:52	SW-846 3005A, 6010B, Metals by ICP (Total)	08/14/2023 11:42	08/15/2023 17:54
				SW-846 3005A, 6020A, Metals by ICPMS (Total)	08/14/2023 11:42	08/30/2023 21:37
				SW-846 7470A (Total)	08/14/2023 16:33	08/15/2023 17:49
23071810-060D	G303	08/09/2023 15:26	08/09/2023 17:52	SW-846 3005A, 6010B, Metals by ICP (Dissolved)	08/14/2023 12:00	08/15/2023 17:10
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)	08/14/2023 12:00	09/13/2023 16:07
23071810-060E	G303	08/09/2023 15:26	08/09/2023 17:52	SW-846 9060A		08/31/2023 21:51
23071810-060F	G303	08/09/2023 15:26	08/09/2023 17:52	SW-846 9060A		08/29/2023 2:01
23071810-061A	G305	08/10/2023 12:36	08/10/2023 17:30	Ferrous Iron by CHEMets Kit		08/10/2023 12:36
				Field Elevation Measurements		08/10/2023 12:36
				Standard Methods 2130 B Field		08/10/2023 12:36
				Standard Methods 18th Ed. 2580 B Field		08/10/2023 12:36
				Standard Methods 2320 B (Total) 1997, 2011		08/16/2023 10:50
				Standard Methods 2320 B 1997, 2011		08/16/2023 10:50
				Standard Methods 2510 B Field		08/10/2023 12:36
				Standard Methods 2540 C (Total) 1997, 2011		08/15/2023 10:45
				Standard Methods 2550 B Field		08/10/2023 12:36
				Standard Methods 4500-NO2 B (Total) 2000, 2011		08/11/2023 17:38
				Standard Methods 4500-NO3 F (Total) 2000, 2011		08/11/2023 14:15
				Standard Methods 4500-NO3 F (Total) 2000, 2011		08/11/2023 14:15



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	Standard Methods 4500-O G Field				08/10/2023 12:36
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 13:43
	SW-846 9036 (Total)				08/30/2023 18:21
	SW-846 9040B Field				08/10/2023 12:36
	SW-846 9214 (Total)				08/16/2023 10:34
	SW-846 9251 (Total)				09/01/2023 14:18
23071810-061B	G305	08/10/2023 12:36	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 10:35
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 10:35
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:38
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:02
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:02
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 13:44
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 13:00
	SW-846 9251 (Dissolved)				08/23/2023 18:55
23071810-061C	G305	08/10/2023 12:36	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:40
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/01/2023 1:03
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 22:17
	SW-846 7470A (Total)			08/14/2023 16:33	08/15/2023 17:56
23071810-061D	G305	08/10/2023 12:36	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 17:20
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	09/13/2023 16:12
23071810-061E	G305	08/10/2023 12:36	08/10/2023 17:30		
	SW-846 9060A				08/31/2023 0:00
23071810-061F	G305	08/10/2023 12:36	08/10/2023 17:30		
	SW-846 9060A				08/29/2023 2:38
23071810-062A	G306	08/10/2023 11:01	08/10/2023 17:30		
	Ferrous Iron by CHEMets Kit				08/10/2023 11:01
	Field Elevation Measurements				08/10/2023 11:01
	Standard Methods 2130 B Field				08/10/2023 11:01
	Standard Methods 18th Ed. 2580 B Field				08/10/2023 11:01
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 10:57
	Standard Methods 2320 B 1997, 2011				08/16/2023 10:57
	Standard Methods 2510 B Field				08/10/2023 11:01



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name				Prep Date/Time	Analysis Date/Time
	Standard Methods 2540 C (Total) 1997, 2011				08/15/2023 10:45
	Standard Methods 2550 B Field				08/10/2023 11:01
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:39
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:17
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:17
	Standard Methods 4500-O G Field				08/10/2023 11:01
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 14:24
	SW-846 9036 (Total)				09/01/2023 13:35
	SW-846 9040B Field				08/10/2023 11:01
	SW-846 9214 (Total)				08/16/2023 10:46
	SW-846 9251 (Total)				09/01/2023 14:23
23071810-062B	G306	08/10/2023 11:01	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 10:42
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 10:42
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:39
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:04
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:04
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 13:47
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/30/2023 13:17
	SW-846 9251 (Dissolved)				08/29/2023 13:25
23071810-062C	G306	08/10/2023 11:01	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:41
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/01/2023 1:10
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 22:23
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 22:30
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/08/2023 16:12
	SW-846 7470A (Total)			08/14/2023 16:33	08/15/2023 17:58
23071810-062D	G306	08/10/2023 11:01	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 17:22
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	09/13/2023 16:18
23071810-062E	G306	08/10/2023 11:01	08/10/2023 17:30		
	SW-846 9060A				08/31/2023 22:02
23071810-062F	G306	08/10/2023 11:01	08/10/2023 17:30		
	SW-846 9060A				08/29/2023 2:43
23071810-064A	G307D	08/10/2023 12:12	08/10/2023 17:30		



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	Ferrous Iron by CHEMets Kit				08/10/2023 12:12
	Field Elevation Measurements				08/10/2023 12:12
	Standard Methods 2130 B Field				08/10/2023 12:12
	Standard Methods 18th Ed. 2580 B Field				08/10/2023 12:12
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 11:04
	Standard Methods 2320 B 1997, 2011				08/16/2023 11:04
	Standard Methods 2510 B Field				08/10/2023 12:12
	Standard Methods 2540 C (Total) 1997, 2011				08/15/2023 10:46
	Standard Methods 2550 B Field				08/10/2023 12:12
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:40
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:19
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:19
	Standard Methods 4500-O G Field				08/10/2023 12:12
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 14:04
	SW-846 9036 (Total)				08/30/2023 18:36
	SW-846 9040B Field				08/10/2023 12:12
	SW-846 9214 (Total)				08/16/2023 10:47
	SW-846 9251 (Total)				09/01/2023 14:31
23071810-064B	G307D	08/10/2023 12:12	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 10:49
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 10:49
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:40
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:20
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:20
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 14:05
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 13:46
	SW-846 9251 (Dissolved)				08/23/2023 19:43
23071810-064C	G307D	08/10/2023 12:12	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:42
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/01/2023 1:16
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 23:02
	SW-846 7470A (Total)			08/14/2023 16:33	08/15/2023 18:00
23071810-064D	G307D	08/10/2023 12:12	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 17:23
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	09/13/2023 17:28



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
23071810-064E	G307D	08/10/2023 12:12	08/10/2023 17:30		
	SW-846 9060A				08/31/2023 22:09
23071810-064F	G307D	08/10/2023 12:12	08/10/2023 17:30		
	SW-846 9060A				08/29/2023 2:51
23071810-065A	G308	08/10/2023 13:00	08/10/2023 17:30		
	Field Elevation Measurements				08/10/2023 13:00
	Standard Methods 2130 B Field				08/10/2023 13:00
	Standard Methods 18th Ed. 2580 B Field				08/10/2023 13:00
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 11:11
	Standard Methods 2320 B 1997, 2011				08/16/2023 11:11
	Standard Methods 2510 B Field				08/10/2023 13:00
	Standard Methods 2540 C (Total) 1997, 2011				08/15/2023 11:10
	Standard Methods 2550 B Field				08/10/2023 13:00
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:40
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:35
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:35
	Standard Methods 4500-O G Field				08/10/2023 13:00
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 14:07
	SW-846 9036 (Total)				08/30/2023 18:45
	SW-846 9040B Field				08/10/2023 13:00
	SW-846 9214 (Total)				08/16/2023 10:49
	SW-846 9251 (Total)				09/01/2023 14:50
23071810-065B	G308	08/10/2023 13:00	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 13:45
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 13:45
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:41
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:22
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:22
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 14:07
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 13:59
	SW-846 9251 (Dissolved)				08/23/2023 19:50
23071810-065C	G308	08/10/2023 13:00	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:42
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/01/2023 1:23
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 23:08



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Test Name	Prep Date/Time	Analysis Date/Time
				SW-846 7470A (Total)	08/14/2023 16:33	08/15/2023 18:02
23071810-065D	G308	08/10/2023 13:00	08/10/2023 17:30	SW-846 3005A, 6010B, Metals by ICP (Dissolved)	08/14/2023 12:00	08/15/2023 17:25
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)	08/14/2023 12:00	09/13/2023 17:34
23071810-065E	G308	08/10/2023 13:00	08/10/2023 17:30			
				SW-846 9060A		08/31/2023 22:14
23071810-065F	G308	08/10/2023 13:00	08/10/2023 17:30			
				SW-846 9060A		08/31/2023 12:15
23071810-067A	G310	08/09/2023 10:36	08/09/2023 17:52			
				Ferrous Iron by CHEMets Kit		08/09/2023 10:36
				Field Elevation Measurements		08/09/2023 10:36
				Standard Methods 2130 B Field		08/09/2023 10:36
				Standard Methods 18th Ed. 2580 B Field		08/09/2023 10:36
				Standard Methods 2320 B (Total) 1997, 2011		08/17/2023 14:00
				Standard Methods 2320 B 1997, 2011		08/17/2023 14:00
				Standard Methods 2510 B Field		08/09/2023 10:36
				Standard Methods 2540 C (Total) 1997, 2011		08/14/2023 9:16
				Standard Methods 2550 B Field		08/09/2023 10:36
				Standard Methods 4500-NO2 B (Total) 2000, 2011		08/10/2023 16:48
				Standard Methods 4500-NO3 F (Total) 2000, 2011		08/10/2023 19:37
				Standard Methods 4500-NO3 F (Total) 2000, 2011		08/10/2023 19:37
				Standard Methods 4500-O G Field		08/09/2023 10:36
				Standard Methods 4500-P E 1999		08/11/2023 0:00
				Standard Methods 4500-P E 1999, 2011		08/10/2023 13:30
				SW-846 9036 (Total)		08/30/2023 18:52
				SW-846 9040B Field		08/09/2023 10:36
				SW-846 9214 (Total)		08/14/2023 12:14
				SW-846 9251 (Total)		09/01/2023 14:53
23071810-067B	G310	08/09/2023 10:36	08/09/2023 17:52			
				Standard Methods 2320 B (Dissolved) 1997, 2011		08/15/2023 13:51
				Standard Methods 2320 B (Dissolved) 1997, 2011		08/15/2023 13:51
				Standard Methods 4500-NO2 B (Dissolved) 2000, 2011		08/10/2023 16:41
				Standard Methods 4500-NO3 F (Dissolved) 2000, 2011		08/10/2023 18:20
				Standard Methods 4500-NO3 F (Dissolved) 2000, 2011		08/10/2023 18:20
				Standard Methods 4500-P E (Dissolved) 1999, 2011		08/10/2023 13:31
				Standard Methods 4500-P E (Dissolved) 1999		08/11/2023 0:00
				SW-846 9036 (Dissolved)		08/29/2023 14:18



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Test Name				
	SW-846 9251 (Dissolved)				08/23/2023 19:58
23071810-067C	G310	08/09/2023 10:36	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:42	08/15/2023 17:56
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:42	08/30/2023 21:43
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 18:09
23071810-067D	G310	08/09/2023 10:36	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 17:27
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	09/13/2023 17:39
23071810-067E	G310	08/09/2023 10:36	08/09/2023 17:52		
	SW-846 9060A				08/31/2023 22:20
23071810-067F	G310	08/09/2023 10:36	08/09/2023 17:52		
	SW-846 9060A				08/31/2023 12:49
23071810-068A	G312	08/09/2023 12:28	08/09/2023 17:52		
	Ferrous Iron by CHEMets Kit				08/09/2023 12:28
	Field Elevation Measurements				08/09/2023 12:28
	Standard Methods 2130 B Field				08/09/2023 12:28
	Standard Methods 18th Ed. 2580 B Field				08/09/2023 12:28
	Standard Methods 2320 B (Total) 1997, 2011				08/17/2023 14:07
	Standard Methods 2320 B 1997, 2011				08/17/2023 14:07
	Standard Methods 2510 B Field				08/09/2023 12:28
	Standard Methods 2540 C (Total) 1997, 2011				08/14/2023 9:16
	Standard Methods 2550 B Field				08/09/2023 12:28
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/10/2023 16:49
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/10/2023 19:39
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/10/2023 19:39
	Standard Methods 4500-O G Field				08/09/2023 12:28
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/10/2023 13:33
	SW-846 9036 (Total)				08/30/2023 19:17
	SW-846 9040B Field				08/09/2023 12:28
	SW-846 9214 (Total)				08/14/2023 12:16
	SW-846 9251 (Total)				09/01/2023 14:58
23071810-068B	G312	08/09/2023 12:28	08/09/2023 17:52		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 13:58
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 13:58
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/10/2023 16:42
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/10/2023 18:22



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/10/2023 18:22
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/10/2023 13:33
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 14:26
	SW-846 9251 (Dissolved)				08/23/2023 20:07
23071810-068C	G312	08/09/2023 12:28	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:42	08/15/2023 18:07
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:42	08/30/2023 21:49
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:42	09/13/2023 20:11
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 18:16
23071810-068D	G312	08/09/2023 12:28	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 17:28
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	09/13/2023 17:17
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	09/13/2023 17:44
23071810-068E	G312	08/09/2023 12:28	08/09/2023 17:52		
	SW-846 9060A				08/31/2023 22:27
23071810-068F	G312	08/09/2023 12:28	08/09/2023 17:52		
	SW-846 9060A				08/31/2023 13:27
23071810-069A	G313	08/09/2023 14:12	08/09/2023 17:52		
	Ferrous Iron by CHEMets Kit				08/09/2023 14:12
	Field Elevation Measurements				08/09/2023 14:12
	Standard Methods 2130 B Field				08/09/2023 14:12
	Standard Methods 18th Ed. 2580 B Field				08/09/2023 14:12
	Standard Methods 2320 B (Total) 1997, 2011				08/17/2023 14:15
	Standard Methods 2320 B 1997, 2011				08/17/2023 14:15
	Standard Methods 2510 B Field				08/09/2023 14:12
	Standard Methods 2540 C (Total) 1997, 2011				08/14/2023 10:22
	Standard Methods 2550 B Field				08/09/2023 14:12
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/10/2023 16:49
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/10/2023 19:42
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/10/2023 19:42
	Standard Methods 4500-O G Field				08/09/2023 14:12
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/10/2023 13:34
	SW-846 9036 (Total)				08/30/2023 19:24
	SW-846 9040B Field				08/09/2023 14:12
	SW-846 9214 (Total)				08/14/2023 12:18



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 9251 (Total)				09/01/2023 15:01
23071810-069B	G313	08/09/2023 14:12	08/09/2023 17:52		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 11:55
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 11:55
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/10/2023 16:42
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/10/2023 18:25
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/10/2023 18:25
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/10/2023 13:35
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 14:37
	SW-846 9251 (Dissolved)				08/23/2023 20:30
23071810-069C	G313	08/09/2023 14:12	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:42	08/15/2023 18:08
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:42	08/30/2023 21:56
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 18:18
23071810-069D	G313	08/09/2023 14:12	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 17:30
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	09/13/2023 17:50
23071810-069E	G313	08/09/2023 14:12	08/09/2023 17:52		
	SW-846 9060A				08/31/2023 22:32
23071810-069F	G313	08/09/2023 14:12	08/09/2023 17:52		
	SW-846 9060A				08/31/2023 13:33
23071810-070A	G314	08/09/2023 14:33	08/09/2023 17:52		
	Ferrous Iron by CHEMets Kit				08/09/2023 14:33
	Field Elevation Measurements				08/09/2023 14:33
	Standard Methods 2130 B Field				08/09/2023 14:33
	Standard Methods 18th Ed. 2580 B Field				08/09/2023 14:33
	Standard Methods 2320 B (Total) 1997, 2011				08/17/2023 14:24
	Standard Methods 2320 B 1997, 2011				08/17/2023 14:24
	Standard Methods 2510 B Field				08/09/2023 14:33
	Standard Methods 2540 C (Total) 1997, 2011				08/14/2023 10:22
	Standard Methods 2550 B Field				08/09/2023 14:33
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/10/2023 16:49
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/10/2023 19:44
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/10/2023 19:44
	Standard Methods 4500-O G Field				08/09/2023 14:33
	Standard Methods 4500-P E 1999				08/11/2023 0:00



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	Standard Methods 4500-P E 1999, 2011				08/10/2023 14:03
	SW-846 9036 (Total)				08/30/2023 19:38
	SW-846 9040B Field				08/09/2023 14:33
	SW-846 9214 (Total)				08/14/2023 12:20
	SW-846 9251 (Total)				09/01/2023 15:06
23071810-070B	G314	08/09/2023 14:33	08/09/2023 17:52		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/11/2023 16:21
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/11/2023 16:21
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/10/2023 16:43
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/10/2023 18:27
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/10/2023 18:27
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/10/2023 14:02
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 15:17
	SW-846 9251 (Dissolved)				08/23/2023 20:52
23071810-070C	G314	08/09/2023 14:33	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:42	08/15/2023 18:10
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:42	08/30/2023 22:47
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:42	09/13/2023 20:16
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 18:20
23071810-070D	G314	08/09/2023 14:33	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 17:31
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	09/13/2023 13:14
23071810-070E	G314	08/09/2023 14:33	08/09/2023 17:52		
	SW-846 9060A				08/31/2023 22:38
23071810-070F	G314	08/09/2023 14:33	08/09/2023 17:52		
	SW-846 9060A				08/31/2023 13:39
23071810-071A	G314D	08/09/2023 14:53	08/09/2023 17:52		
	Ferrous Iron by CHEMets Kit				08/09/2023 14:53
	Field Elevation Measurements				08/09/2023 14:53
	Standard Methods 2130 B Field				08/09/2023 14:53
	Standard Methods 18th Ed. 2580 B Field				08/09/2023 14:53
	Standard Methods 2320 B (Total) 1997, 2011				08/17/2023 14:33
	Standard Methods 2320 B 1997, 2011				08/17/2023 14:33
	Standard Methods 2510 B Field				08/09/2023 14:53
	Standard Methods 2540 C (Total) 1997, 2011				08/14/2023 10:22
	Standard Methods 2550 B Field				08/09/2023 14:53



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/10/2023 16:50
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/10/2023 20:04
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/10/2023 20:04
	Standard Methods 4500-O G Field				08/09/2023 14:53
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/10/2023 14:01
	SW-846 9036 (Total)				08/30/2023 19:46
	SW-846 9040B Field				08/09/2023 14:53
	SW-846 9214 (Total)				08/14/2023 12:23
	SW-846 9251 (Total)				09/01/2023 15:09
23071810-071B	G314D	08/09/2023 14:53	08/09/2023 17:52		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 12:02
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 12:02
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/10/2023 16:43
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/10/2023 18:29
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/10/2023 18:29
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/10/2023 14:04
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 15:25
	SW-846 9251 (Dissolved)				08/23/2023 21:00
23071810-071C	G314D	08/09/2023 14:53	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:42	08/15/2023 18:12
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:42	08/30/2023 22:53
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:42	09/13/2023 20:22
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 18:27
23071810-071D	G314D	08/09/2023 14:53	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 17:33
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	09/12/2023 0:28
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	09/13/2023 17:23
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	09/13/2023 17:55
23071810-071E	G314D	08/09/2023 14:53	08/09/2023 17:52		
	SW-846 9060A				08/31/2023 22:44
23071810-071F	G314D	08/09/2023 14:53	08/09/2023 17:52		
	SW-846 9060A				08/31/2023 13:44
23071810-072A	G315	08/10/2023 11:29	08/10/2023 17:30		
	Ferrous Iron by CHEMets Kit				08/10/2023 11:29
	Field Elevation Measurements				08/10/2023 11:29



Dates Report

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	Standard Methods 2130 B Field				08/10/2023 11:29
	Standard Methods 18th Ed. 2580 B Field				08/10/2023 11:29
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 11:26
	Standard Methods 2320 B 1997, 2011				08/16/2023 11:26
	Standard Methods 2510 B Field				08/10/2023 11:29
	Standard Methods 2540 C (Total) 1997, 2011				08/15/2023 11:10
	Standard Methods 2550 B Field				08/10/2023 11:29
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:41
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:37
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:37
	Standard Methods 4500-O G Field				08/10/2023 11:29
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 14:09
	SW-846 9036 (Total)				08/30/2023 19:48
	SW-846 9040B Field				08/10/2023 11:29
	SW-846 9214 (Total)				08/16/2023 10:51
	SW-846 9251 (Total)				09/01/2023 15:14
23071810-072B	G315	08/10/2023 11:29	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 12:10
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 12:10
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:42
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:25
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:25
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 14:10
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 15:26
	SW-846 9251 (Dissolved)				08/23/2023 21:24
23071810-072C	G315	08/10/2023 11:29	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:43
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/01/2023 1:29
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 23:14
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 18:29
23071810-072D	G315	08/10/2023 11:29	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 11:55
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 16:13
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/10/2023 23:53
23071810-072E	G315	08/10/2023 11:29	08/10/2023 17:30		



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Test Name	Prep Date/Time	Analysis Date/Time
				SW-846 9060A		08/31/2023 23:20
23071810-072F	G315	08/10/2023 11:29	08/10/2023 17:30			
				SW-846 9060A		08/31/2023 13:51
23071810-073A	G316	08/09/2023 13:43	08/09/2023 17:52			
				Ferrous Iron by CHEMets Kit		08/09/2023 13:43
				Field Elevation Measurements		08/09/2023 13:43
				Standard Methods 2130 B Field		08/09/2023 13:43
				Standard Methods 18th Ed. 2580 B Field		08/09/2023 13:43
				Standard Methods 2320 B (Total) 1997, 2011		08/17/2023 14:42
				Standard Methods 2320 B 1997, 2011		08/17/2023 14:42
				Standard Methods 2510 B Field		08/09/2023 13:43
				Standard Methods 2540 C (Total) 1997, 2011		08/14/2023 10:23
				Standard Methods 2550 B Field		08/09/2023 13:43
				Standard Methods 4500-NO2 B (Total) 2000, 2011		08/10/2023 16:51
				Standard Methods 4500-NO3 F (Total) 2000, 2011		08/10/2023 20:06
				Standard Methods 4500-NO3 F (Total) 2000, 2011		08/10/2023 20:06
				Standard Methods 4500-O G Field		08/09/2023 13:43
				Standard Methods 4500-P E 1999		08/11/2023 0:00
				Standard Methods 4500-P E 1999, 2011		08/10/2023 14:07
				SW-846 9036 (Total)		08/30/2023 20:13
				SW-846 9040B Field		08/09/2023 13:43
				SW-846 9214 (Total)		08/14/2023 12:34
				SW-846 9251 (Total)		09/01/2023 15:17
23071810-073B	G316	08/09/2023 13:43	08/09/2023 17:52			
				Standard Methods 2320 B (Dissolved) 1997, 2011		08/15/2023 12:15
				Standard Methods 2320 B (Dissolved) 1997, 2011		08/15/2023 12:15
				Standard Methods 4500-NO2 B (Dissolved) 2000, 2011		08/10/2023 16:43
				Standard Methods 4500-NO3 F (Dissolved) 2000, 2011		08/10/2023 18:32
				Standard Methods 4500-NO3 F (Dissolved) 2000, 2011		08/10/2023 18:32
				Standard Methods 4500-P E (Dissolved) 1999, 2011		08/10/2023 14:08
				Standard Methods 4500-P E (Dissolved) 1999		08/11/2023 0:00
				SW-846 9036 (Dissolved)		08/29/2023 15:35
				SW-846 9251 (Dissolved)		08/23/2023 21:32
23071810-073C	G316	08/09/2023 13:43	08/09/2023 17:52			
				SW-846 3005A, 6010B, Metals by ICP (Total)	08/14/2023 11:42	08/15/2023 18:13
				SW-846 3005A, 6020A, Metals by ICPMS (Total)	08/14/2023 11:42	08/30/2023 23:00
				SW-846 3005A, 6020A, Metals by ICPMS (Total)	08/14/2023 11:42	09/11/2023 15:27



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name				Prep Date/Time	Analysis Date/Time
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:42	09/13/2023 20:27
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 18:32
23071810-073D	G316	08/09/2023 13:43	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 11:56
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 16:14
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/10/2023 23:59
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/13/2023 13:08
23071810-073E	G316	08/09/2023 13:43	08/09/2023 17:52		
	SW-846 9060A				08/31/2023 23:27
23071810-073F	G316	08/09/2023 13:43	08/09/2023 17:52		
	SW-846 9060A				08/31/2023 13:57
23071810-099A	SG-03	08/08/2023 12:04	08/09/2023 17:52		
	Field Elevation Measurements				08/08/2023 12:04
23071810-104A	XPW01	08/10/2023 13:22	08/10/2023 17:30		
	Ferrous Iron by CHEMets Kit				08/10/2023 13:22
	Field Elevation Measurements				08/10/2023 13:22
	Standard Methods 2130 B Field				08/10/2023 13:22
	Standard Methods 18th Ed. 2580 B Field				08/10/2023 13:22
	Standard Methods 2320 B (Total) 1997, 2011				08/17/2023 13:18
	Standard Methods 2320 B 1997, 2011				08/17/2023 13:18
	Standard Methods 2510 B Field				08/10/2023 13:22
	Standard Methods 2540 C (Total) 1997, 2011				08/15/2023 11:37
	Standard Methods 2550 B Field				08/10/2023 13:22
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:30
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:52
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:52
	Standard Methods 4500-O G Field				08/10/2023 13:22
	Standard Methods 4500-P E 1999				08/12/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 14:16
	SW-846 9036 (Total)				08/30/2023 23:21
	SW-846 9040B Field				08/10/2023 13:22
	SW-846 9214 (Total)				08/14/2023 12:38
	SW-846 9251 (Total)				08/30/2023 23:17
23071810-104B	XPW01	08/10/2023 13:22	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/18/2023 12:39
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/18/2023 12:39
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:30



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:37
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:37
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 14:17
	Standard Methods 4500-P E (Dissolved) 1999				08/12/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 18:25
	SW-846 9251 (Dissolved)				08/24/2023 1:02
23071810-104C	XPW01	08/10/2023 13:22	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 13:42	08/16/2023 12:17
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 13:42	08/17/2023 9:43
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 13:42	09/01/2023 2:39
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 13:42	09/07/2023 17:23
	SW-846 7470A (Total)			08/14/2023 18:11	08/15/2023 19:15
23071810-104D	XPW01	08/10/2023 13:22	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 12:37
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 16:30
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/17/2023 16:33
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/11/2023 2:41
23071810-104E	XPW01	08/10/2023 13:22	08/10/2023 17:30		
	SW-846 9060A				09/01/2023 2:32
23071810-104F	XPW01	08/10/2023 13:22	08/10/2023 17:30		
	SW-846 9060A				08/31/2023 16:27
23071810-105A	XPW02	08/10/2023 13:45	08/10/2023 17:30		
	Ferrous Iron by CHEMets Kit				08/10/2023 13:45
	Field Elevation Measurements				08/10/2023 13:45
	Standard Methods 2130 B Field				08/10/2023 13:45
	Standard Methods 18th Ed. 2580 B Field				08/10/2023 13:45
	Standard Methods 2320 B (Total) 1997, 2011				08/17/2023 13:25
	Standard Methods 2320 B 1997, 2011				08/17/2023 13:25
	Standard Methods 2510 B Field				08/10/2023 13:45
	Standard Methods 2540 C (Total) 1997, 2011				08/15/2023 11:37
	Standard Methods 2550 B Field				08/10/2023 13:45
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:30
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:54
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:54
	Standard Methods 4500-O G Field				08/10/2023 13:45
	Standard Methods 4500-P E 1999				08/12/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 14:17



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
	SW-846 9036 (Total)				08/30/2023 23:30
	SW-846 9040B Field				08/10/2023 13:45
	SW-846 9214 (Total)				08/14/2023 11:58
	SW-846 9251 (Total)				08/30/2023 23:25
23071810-105B	XPW02	08/10/2023 13:45	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/18/2023 12:46
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/18/2023 12:46
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:30
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:40
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:40
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 14:18
	Standard Methods 4500-P E (Dissolved) 1999				08/12/2023 0:00
	SW-846 9036 (Dissolved)				08/24/2023 1:14
	SW-846 9251 (Dissolved)				08/29/2023 18:29
23071810-105C	XPW02	08/10/2023 13:45	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 13:42	08/16/2023 12:19
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 13:42	08/17/2023 9:44
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 13:42	09/01/2023 3:17
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 13:42	09/07/2023 17:42
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 13:42	09/08/2023 13:26
	SW-846 7470A (Total)			08/22/2023 13:27	08/24/2023 11:42
23071810-105D	XPW02	08/10/2023 13:45	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 12:38
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/16/2023 16:31
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 13:35	08/17/2023 16:34
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 13:35	09/11/2023 2:47
23071810-105E	XPW02	08/10/2023 13:45	08/10/2023 17:30		
	SW-846 9060A				09/01/2023 2:38
23071810-105F	XPW02	08/10/2023 13:45	08/10/2023 17:30		
	SW-846 9060A				08/31/2023 16:33
23071810-106A	XSG-01	08/08/2023 12:19	08/09/2023 17:52		
	Field Elevation Measurements				08/08/2023 12:19
23071810-107A	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	Standard Methods 2320 B (Total) 1997, 2011				08/17/2023 13:33
	Standard Methods 2320 B 1997, 2011				08/17/2023 13:33
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 12:39
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/15/2023 21:06



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/16/2023 14:23
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/16/2023 14:23
	Standard Methods 4500-P E 1999				08/16/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/16/2023 13:52
	SW-846 9036 (Total)				08/30/2023 23:33
	SW-846 9214 (Total)				08/16/2023 14:38
	SW-846 9251 (Total)				08/30/2023 23:34
23071810-107B	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 11:27
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 11:27
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/15/2023 21:01
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/16/2023 13:12
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/16/2023 13:12
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/16/2023 13:53
	Standard Methods 4500-P E (Dissolved) 1999				08/16/2023 0:00
	SW-846 9036 (Dissolved)				08/24/2023 1:18
	SW-846 9214 (Dissolved)				08/16/2023 14:41
	SW-846 9251 (Dissolved)				08/24/2023 1:18
23071810-107C	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 18:29	08/17/2023 10:29
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 18:29	08/18/2023 15:59
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 18:29	08/30/2023 12:36
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 18:29	09/11/2023 12:58
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 18:29	09/13/2023 22:48
	SW-846 7470A (Total)			08/22/2023 13:27	08/24/2023 11:44
23071810-107D	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 19:44	08/16/2023 10:09
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 19:44	08/16/2023 16:04
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 19:44	08/18/2023 15:52
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 19:44	09/01/2023 16:01
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 19:44	09/08/2023 2:39
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 19:44	09/13/2023 18:44
	SW-846 7470A (Dissolved)			08/22/2023 13:27	08/24/2023 11:46
23071810-107E	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	SW-846 9012A (Total)			08/16/2023 20:03	08/17/2023 11:33
23071810-107F	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	SW-846 9060A				09/01/2023 2:44



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Test Name				
	SW-846 9066 (Total)				08/23/2023 10:41
23071810-107G	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	SW-846 9060A				08/31/2023 17:09
23071810-107H	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	Standard Methods 4500-NH3 G (Dissolved) 1997, 2011				08/16/2023 11:36
23071810-111A	G301 Duplicate	08/09/2023 11:13	08/09/2023 17:52		
	Ferrous Iron by CHEMets Kit				08/09/2023 11:13
	Field Elevation Measurements				08/09/2023 11:13
	Standard Methods 2130 B Field				08/09/2023 11:13
	Standard Methods 18th Ed. 2580 B Field				08/09/2023 11:13
	Standard Methods 2320 B (Total) 1997, 2011				08/17/2023 14:51
	Standard Methods 2320 B 1997, 2011				08/17/2023 14:51
	Standard Methods 2510 B Field				08/09/2023 11:13
	Standard Methods 2540 C (Total) 1997, 2011				08/14/2023 11:45
	Standard Methods 2550 B Field				08/09/2023 11:13
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/10/2023 16:51
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/10/2023 20:15
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/10/2023 20:15
	Standard Methods 4500-O G Field				08/09/2023 11:13
	Standard Methods 4500-P E 1999				08/12/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/10/2023 14:09
	SW-846 9036 (Total)				08/31/2023 0:12
	SW-846 9040B Field				08/09/2023 11:13
	SW-846 9214 (Total)				08/14/2023 12:41
	SW-846 9251 (Total)				09/01/2023 16:02
23071810-111B	G301 Duplicate	08/09/2023 11:13	08/09/2023 17:52		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 14:43
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 14:43
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/10/2023 16:45
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/10/2023 19:00
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/10/2023 19:00
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/10/2023 14:11
	Standard Methods 4500-P E (Dissolved) 1999				08/12/2023 0:00
	SW-846 9036 (Dissolved)				08/29/2023 18:50
	SW-846 9251 (Dissolved)				08/24/2023 1:58
23071810-111C	G301 Duplicate	08/09/2023 11:13	08/09/2023 17:52		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:42	08/15/2023 18:30



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Test Name	Prep Date/Time	Analysis Date/Time
				SW-846 3005A, 6010B, Metals by ICP (Total)	08/14/2023 11:42	08/16/2023 15:13
				SW-846 3005A, 6020A, Metals by ICPMS (Total)	08/14/2023 11:42	08/30/2023 23:12
				SW-846 3005A, 6020A, Metals by ICPMS (Total)	08/14/2023 11:42	09/13/2023 20:32
				SW-846 7470A (Total)	08/14/2023 18:12	08/15/2023 19:30
23071810-111D	G301 Duplicate	08/09/2023 11:13	08/09/2023 17:52			
				SW-846 3005A, 6010B, Metals by ICP (Dissolved)	08/14/2023 13:35	08/16/2023 12:39
				SW-846 3005A, 6010B, Metals by ICP (Dissolved)	08/14/2023 13:35	08/16/2023 16:33
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)	08/14/2023 13:35	09/11/2023 2:59
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)	08/14/2023 13:35	09/13/2023 18:49
23071810-111E	G301 Duplicate	08/09/2023 11:13	08/09/2023 17:52			
	SW-846 9060A					09/01/2023 2:56
23071810-111F	G301 Duplicate	08/09/2023 11:13	08/09/2023 17:52			
	SW-846 9060A					08/31/2023 17:22



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 2510 B FIELD

Batch R335486		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS 1-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1470	1412	0	104.4	90	110	08/09/2023	

Batch R335486		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS 2-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	08/10/2023	

Batch R335486		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS 3-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1470	1412	0	104.1	90	110	08/11/2023	

Batch R335486		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.7	90	110	08/09/2023	

Batch R335486		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.6	90	110	08/10/2023	

Batch R335486		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-4											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field		*	0		1420	1412	0	100.8	90	110	08/14/2023

Batch R335486		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-5											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	08/14/2023	

Batch R335486		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-6											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field		*	0		1420	1412	0	100.5	90	110	08/15/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9040B FIELD

Batch R335486		SampType: LCS		Units							
SampID: LCS 1 -3											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
pH	*	1.00		7.10	7.000	0	101.4	98.57	101.4	08/09/2023	

Batch R335486		SampType: LCS		Units							
SampID: LCS 2-3											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
pH	*	1.00		7.01	7.000	0	100.1	98.57	101.4	08/10/2023	

Batch R335486		SampType: LCS		Units							
SampID: LCS 3-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.07	7.000	0	101.0	98.57	101.4	08/11/2023	

Batch R335486		SampType: LCS		Units							
SampID: LCS2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.01	7.000	0	100.1	98.57	101.4	08/09/2023	

Batch R335486		SampType: LCS		Units							
SampID: LCS3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.01	7.000	0	100.1	98.57	101.4	08/10/2023	

Batch R335486		SampType: LCS		Units							
SampID: LCS4											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.01	7.000	0	100.1	98.57	101.4	08/14/2023	

Batch R335486		SampType: LCS		Units							
SampID: LCS5											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.04	7.000	0	100.6	98.57	101.4	08/14/2023	

Batch R335486		SampType: LCS		Units							
SampID: LCS6											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH	*	1.00		7.02	7.000	0	100.3	98.57	101.4	08/15/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R334965	SampType: MBLK	Units mg/L								
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/12/2023

Batch R334965		SampType: LCS		Units mg/L							
SampID: LCS											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids			20		914	1000	0	91.4	90	110	08/12/2023

Batch R334965		SampType: DUP		Units mg/L					RPD Limit 10		
SampID: 23071810-011ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20		444				448.0	0.90	08/12/2023

Batch R335033		SampType: MBLK		Units mg/L							
SampID: MBLK											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/14/2023	

Batch R335033		SampType: LCS		Units mg/L						
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		936	1000	0	93.6	90	110	08/14/2023

Batch R335033		SampType: DUP		Units mg/L					RPD Limit 10		
SampID: 23071810-102ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20		432				446.0	3.19	08/14/2023

Batch R335101	SampType: MBLK	Units mg/L								
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/15/2023
Total Dissolved Solids		20	S	20	16.00	0	125.0	-100	100	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R335101		SampType: LCS		Units mg/L							
SampID: LCS											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Total Dissolved Solids			20		930	1000	0	93.0	90	110	08/15/2023
Total Dissolved Solids			20	B	934	1000	0	93.4	90	110	08/15/2023

Batch R335101		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 23071810-064ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			50		1100				1080	1.38	08/15/2023

Batch R335101		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 23071810-082ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20		758				752.0	0.79	08/15/2023

Batch R335171		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/16/2023	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/16/2023	

Batch R335171		SampType: LCS		Units mg/L							
SampID: LCS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Total Dissolved Solids		20		960	1000	0	96.0	90	110	08/16/2023	
Total Dissolved Solids		20		984	1000	0	98.4	90	110	08/16/2023	

Batch R335171		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 23071810-039ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20		452				426.0	5.92	08/16/2023

Batch R335171		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 23071810-054ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20		1610				1642	2.09	08/16/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R335221 SampType: MBLK Units mg/L
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/17/2023

Batch R335221 SampType: LCS Units mg/L
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		958	1000	0	95.8	90	110	08/17/2023

Batch R335221 SampType: DUP Units mg/L
SampID: 23071810-094ADUP

RPD Limit 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		100		11500				11590	0.78	08/17/2023

Batch R335221 SampType: DUP Units mg/L
SampID: 23071810-103ADUP

RPD Limit 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		200		17400				17840	2.73	08/17/2023

STANDARD METHODS 4500-NH3 G (DISSOLVED) 1997, 2011

Batch R334884 SampType: MBLK Units mg/L
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100	08/11/2023

Batch R334884 SampType: LCS Units mg/L
SampID: ICB/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		1.03	1.000	0	102.6	90	110	08/11/2023

Batch R334884 SampType: MS Units mg/L
SampID: 23071810-002GMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		1.91	2.000	0	95.3	90	110	08/11/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

STANDARD METHODS 4500-NH3 G (DISSOLVED) 1997, 2011

Batch R334884		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed	
SampID: 23071810-002GMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Ammonia (as N)			0.10		1.93	2.000	0	96.6	1.906	1.41	08/11/2023	

Batch R334884		SampType: MS		Units mg/L							
SampID: 23071810-010EMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.88	2.000	0	94.2	90	110	08/11/2023	

Batch R334884		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed	
SampID: 23071810-010EMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Ammonia (as N)			0.10		1.88	2.000	0	94.0	1.885	0.32	08/11/2023	

Batch R334884		SampType: MS		Units mg/L							
SampID: 23071810-101FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.90	2.000	0.02700	93.7	90	110	08/11/2023	

Batch R334884		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed	
SampID: 23071810-101FMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Ammonia (as N)				0.10		1.92	2.000	0.02700	94.4	1.901	0.73	08/11/2023

Batch R334951		SampType: MBLK		Units mg/L							Date Analyzed	
SampID: ICB/MBLK												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100	08/14/2023		

Batch R334951		SampType: LCS		Units mg/L							Date Analyzed	
SampID: ICV/LCS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Nitrogen, Ammonia (as N)		0.10		0.98	1.000	0	98.4	90	110	08/14/2023		

Batch R334951		SampType: MS		Units mg/L							
SampID: 23071810-004GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10	S	2.56	2.000	0.7670	89.6	90	110	08/14/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 4500-NH3 G (DISSOLVED) 1997, 2011

Batch R334951		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-004GMSD											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Nitrogen, Ammonia (as N)			0.10		2.58	2.000	0.7670	90.6	2.560	0.74	08/14/2023

Batch R334951		SampType: MS		Units mg/L							
SampID: 23071810-095GMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.82	2.000	0	91.2	90	110	08/14/2023	

Batch R334951		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed	
SampID: 23071810-095GMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Ammonia (as N)				0.10		1.81	2.000	0	90.7	1.825	0.60	08/14/2023

Batch R335087		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Nitrogen, Ammonia (as N)			0.10		< 0.10	0.0270	0	0	-100	100	08/16/2023

Batch R335087		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.02	1.000	0	102.4	90	110	08/16/2023	

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R334890		SampType: MS		Units mg/L							
SampID: 23071810-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.2	85	115	08/10/2023	

Batch R334890		SampType:	MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-001BMSD												
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)				0.05		0.50	0.5000	0	99.0	0.4960	0.20	08/10/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R334890		SampType: MS		Units mg/L							Date
SampID: 23071810-009BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	98.4	85	115	08/10/2023	

Batch R334890		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-009BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.6	0.4920	2.21	08/10/2023		

Batch R334890		SampType: MS		Units mg/L							Date
SampID: 23071810-011BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.4	85	115	08/10/2023	

Batch R334890		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-011BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.8	0.5020	0.60	08/10/2023		

Batch R334890		SampType: MS		Units mg/L							Date
SampID: 23071810-013BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.47	0.5000	0	94.0	85	115	08/10/2023	

Batch R334890		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-013BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.0	0.4700	5.18	08/10/2023		

Batch R334890		SampType: MS		Units mg/L							Date
SampID: 23071810-018BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	98.2	85	115	08/10/2023	

Batch R334890		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-018BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.4	0.4910	2.22	08/10/2023		



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R334890		SampType: MS		Units mg/L							Date
SampID: 23071810-060BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	98.8	85	115	08/10/2023	

Batch R334890		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 23071810-060BMSD											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.8	0.4940	1.01	08/10/2023	

Batch R334911		SampType: MS		Units mg/L							Date
SampID: 23071810-005BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.47	0.5000	0	94.8	85	115	08/11/2023	

Batch R334911		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 23071810-005BMSD											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0	95.2	0.4740	0.42	08/11/2023	

Batch R334911		SampType: MS		Units mg/L							Date
SampID: 23071810-061BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.47	0.5000	0	94.8	85	115	08/11/2023	

Batch R334911		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 23071810-061BMSD											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)		0.05		0.47	0.5000	0	94.4	0.4740	0.42	08/11/2023	

Batch R334911		SampType: MS		Units mg/L							Date
SampID: 23071810-081BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0	95.8	85	115	08/11/2023	

Batch R334911		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 23071810-081BMSD											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)		0.05		0.47	0.5000	0	94.6	0.4790	1.26	08/11/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R334911		SampType: MS		Units mg/L							Date
SampID: 23071810-095BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.47	0.5000	0	94.6	85	115	08/11/2023	

Batch R334911		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-095BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0	95.2	0.4730	0.63	08/11/2023		

Batch R335044		SampType: MS		Units mg/L							Date
SampID: 23071810-051BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0	96.4	85	115	08/15/2023	

Batch R335044		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-051BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	97.8	0.4820	1.44	08/15/2023		

Batch R335044		SampType: MS		Units mg/L							Date
SampID: 23071810-052BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	102.6	85	115	08/15/2023	

Batch R335044		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-052BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	101.8	0.5130	0.78	08/15/2023		

Batch R335044		SampType: MS		Units mg/L							Date
SampID: 23071810-110BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	97.8	85	115	08/15/2023	

Batch R335044		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-110BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	98.0	0.4890	0.20	08/15/2023		



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R334890	SampType: MBLK		Units mg/L							
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	08/10/2023

Batch R334890		SampType: LCS		Units mg/L							
SampID: LCS											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Nitrogen, Nitrite (as N)			0.25		1.24	1.250	0	98.8	90	110	08/10/2023

Batch R334911	SampType: MBLK		Units mg/L							
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	08/11/2023

Batch R334911		SampType: MBLK		Units mg/Kg							
SampID: MB-R334911											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Nitrogen, Nitrite (as N)			0.50		< 0.50	0.0250	0	0	-100	100	08/11/2023

Batch R334911	SampType: LCS	Units mg/L								
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		1.24	1.250	0	99.2	90	110	08/11/2023

Batch R334911		SampType: LCS		Units mg/Kg						
SampID: LCS-R334911										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		2.50	J	1.2	1.250	0	99.2	90	110	08/11/2023

Batch R334911		SampType: MS		Units mg/L							
SampID: 23071810-033AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.46	0.5000	0	91.4	85	115	08/11/2023	

Batch R334911		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-033AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)			0.05		0.50	0.5000	0	99.0	0.4570	7.98	08/11/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R334911 SampType: MS Units mg/L

SampID: 23071810-083AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	101.0	85	115	08/11/2023

Batch R334911 SampType: MSD Units mg/L

RPD Limit 10

SampID: 23071810-083AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	101.0	0.5050	0.00	08/11/2023

Batch R335044 SampType: MBLK Units mg/L

SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	08/15/2023

Batch R335044 SampType: LCS Units mg/L

SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		1.19	1.250	0	95.2	90	110	08/15/2023

Batch R335044 SampType: MS Units mg/L

SampID: 23071810-039AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.8	85	115	08/15/2023

Batch R335044 SampType: MSD Units mg/L

RPD Limit 10

SampID: 23071810-039AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.2	0.4990	0.60	08/15/2023

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R334857 SampType: MS Units mg/L

SampID: 23071810-009BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.249	0.2500	0	99.6	85	115	08/10/2023



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R334857		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23071810-009BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.250	0.2500	0	100.0	0.2490	0.40	08/10/2023	

Batch R334857		SampType: MS		Units mg/L							
SampID: 23071810-016BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050	E	1.03	0.2500	0.7610	105.6	85	115	08/10/2023	

Batch R334857		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed	
SampID: 23071810-016BMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrate-Nitrite (as N)			0.050	E	1.02	0.2500	0.7610	104.0	1.025	0.39	08/10/2023	

Batch R334857		SampType: MS		Units mg/L							
SampID: 23071810-102BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.254	0.2500	0	101.6	85	115	08/10/2023	

Batch R334857		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-102BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.250	0.2500	0	100.0	0.2540	1.59	08/10/2023

Batch R334934		SampType: MS		Units mg/L							
SampID: 23071810-004BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.275	0.2500	0.02600	99.6	85	115	08/11/2023	

Batch R334934		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-004BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.272	0.2500	0.02600	98.4	0.2750	1.10	08/11/2023

Batch R334934		SampType: MS		Units mg/L							
SampID: 23071810-023BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.802	0.2500	0.5370	106.0	85	115	08/11/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

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STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R334934		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-023BMSD											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.796	0.2500	0.5370	103.6	0.8020	0.75	08/11/2023

Batch R334934		SampType: MS		Units mg/L							
SampID: 23071810-072BMS											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.254	0.2500	0	101.6	85	115	08/11/2023

Batch R334934		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-072BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.251	0.2500	0	100.4	0.2540	1.19	08/11/2023

Batch R334934		SampType: MS		Units mg/L							
SampID: 23071810-075BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050	S	0.227	0.2500	0.04900	71.2	85	115	08/11/2023	

Batch R334934		SampType:	MSD		Units mg/L			RPD Limit 10			
SampID: 23071810-075BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050	S	0.233	0.2500	0.04900	73.6	0.2270	2.61	08/11/2023

Batch R335048		SampType: MS		Units mg/L							
SampID: 23071810-025BMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.546	0.2500	0.3060	96.0	85	115	08/15/2023

Batch R335048		SampType: MSD	Units mg/L					RPD Limit 10			
SampID: 23071810-025BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.540	0.2500	0.3060	93.6	0.5460	1.10	08/15/2023

Batch R335128		SampType: MS		Units mg/L							
SampID: 23071810-050BMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.500		7.13	2.500	4.650	99.2	85	115	08/16/2023



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Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
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STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R335128		SampType: MSD		Units mg/L						RPD Limit 10	
SampID: 23071810-050BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.500		6.99	2.500	4.650	93.7	7.131	1.97	08/16/2023

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R334857		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate (as N)		0.050		< 0.050						08/10/2023	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	08/10/2023	

Batch R334857		SampType: LCS		Units mg/L							
SampID: ICV/LCS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.525	0.5000	0	105.0	90	110	08/10/2023	

Batch R334857		SampType: MS		Units mg/L						
SampID: 23071810-060AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.297	0.2500	0.04100	102.4	85	115	08/10/2023

Batch R334857		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23071810-060AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.294	0.2500	0.04100	101.2	0.2970	1.02	08/10/2023	

Batch R334857		SampType: MS		Units mg/L							
SampID: 23071810-070AMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.260	0.2500	0.01100	99.6	85	115		

Batch R334857		SampType: MSD		Units mg/L				RPD Limit 10				
SampID: 23071810-070AMSD											Date Analyzed	
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrate-Nitrite (as N)				0.050		0.257	0.2500	0.01100	98.4	0.2600	1.16	08/10/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R334857 SampType: MS Units mg/L

SampID: 23071810-073AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.255	0.2500	0.01100	97.6	85	115	08/10/2023

Batch R334857 SampType: MSD Units mg/L

RPD Limit 10

SampID: 23071810-073AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.257	0.2500	0.01100	98.4	0.2550	0.78	08/10/2023

Batch R334934 SampType: MBLK Units mg/L

SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		< 0.050						08/11/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	08/11/2023

Batch R334934 SampType: LCS Units mg/L

SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.495	0.5000	0	99.0	90	110	08/11/2023

Batch R334934 SampType: MS Units mg/L

SampID: 23071810-038AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.259	0.2500	0.009000	100.0	85	115	08/11/2023

Batch R334934 SampType: MSD Units mg/L

RPD Limit 10

SampID: 23071810-038AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.254	0.2500	0.009000	98.0	0.2590	1.95	08/11/2023

Batch R334934 SampType: MS Units mg/L

SampID: 23071810-082AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.294	0.2500	0.04900	98.0	85	115	08/11/2023



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R334934		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23071810-082AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.292	0.2500	0.04900	97.2	0.2940	0.68	08/11/2023

Batch R334997		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		< 0.050	0.0090	0	0	-100	100	08/14/2023

Batch R334997		SampType: LCS		Units mg/L							
SampID: ICV/LCS											Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.512	0.5000	0	102.4	90	110	08/14/2023

Batch	R335048	SampType:	MBLK	Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< 0.050						08/15/2023	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	08/15/2023	

Batch R335048		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.504	0.5000	0	100.8	90	110	08/15/2023

Batch R335048		SampType: MS		Units mg/L							
SampID: 23071810-029AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.248	0.2500	0.01200	94.4	85	115	08/15/2023	

Batch R335048		SampType: MSD	Units mg/L					RPD Limit 10			
SampID: 23071810-029AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.249	0.2500	0.01200	94.8	0.2480	0.40	08/15/2023



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch	R335128	SampType:	MBLK	Units mg/L							
SampID:		ICB/MBLK									
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< 0.050						08/16/2023	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	08/16/2023	

Batch R335128		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.501	0.5000	0	100.2	90	110	08/16/2023

STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R334877		SampType: MS		Units mg/L							
SampID: 23071810-032BMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)			0.010		0.060	0.0500	0.01100	98.0	85	115	08/11/2023

Batch R334877		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-032BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)			0.010		0.065	0.0500	0.01100	108.0	0.06000	8.00	08/11/2023

Batch R334877		SampType: MS		Units mg/L							
SampID: 23071810-038BMS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		0.064	0.0500	0.007000	114.0	85	115	08/11/2023	

Batch R334877		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-038BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)			0.010		0.064	0.0500	0.007000	114.0	0.06400	0.00	08/11/2023

Batch R334877		SampType: MS		Units mg/L							
SampID: 23071810-065BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		0.060	0.0500	0.007000	106.0	85	115	08/11/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

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Batch R334877		SampType: MSD		Units mg/L					RPD Limit 10		
SampID: 23071810-065BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)			0.010		0.062	0.0500	0.007000	110.0	0.06000	3.28	08/11/2023

Batch R334877		SampType: MS		Units mg/L							
SampID: 23071810-080BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		0.062	0.0500	0.01400	96.0	85	115	08/11/2023	

Batch	R334877	SampType:	MSD	Units mg/L						RPD Limit 10		Date Analyzed	
SampID: 23071810-080BMSD													
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Phosphorus, Orthophosphate (as P)					0.010		0.065	0.0500	0.01400	102.0	0.06200	4.72	08/11/2023

Batch R334877		SampType: MS		Units mg/L							
SampID: 23071810-081BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		0.051	0.0500	0	102.0	85	115	08/11/2023	

Batch R334877		SampType: MSD	Units mg/L					RPD Limit 10			Date Analyzed
SampID: 23071810-081BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Phosphorus, Orthophosphate (as P)			0.010		0.051	0.0500	0	102.0	0.05100	0.00	08/11/2023

Batch R334938		SampType: MS		Units mg/L							
SampID: 23071810-067BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		0.057	0.0500	0.006000	102.0	85	115	08/10/2023	

Batch R334938		SampType: MSD	Units mg/L					RPD Limit 10			Date Analyzed
SampID: 23071810-067BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Phosphorus, Orthophosphate (as P)			0.010		0.058	0.0500	0.006000	104.0	0.05700	1.74	08/10/2023

Batch R334938		SampType: MS		Units mg/L							
SampID: 23071810-071BMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)			0.010		0.050	0.0500	0	100.0	85	115	08/10/2023



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R334938		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-071BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)			0.010		0.049	0.0500	0	98.0	0.05000	2.02	08/10/2023

Batch R334938		SampType: MS		Units mg/L							
SampID: 23071810-111BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Phosphorus, Orthophosphate (as P)		0.010		0.055	0.0500	0	110.0	85	115	08/10/2023	

Batch	R334938	SampType:	MSD	Units					mg/L	RPD Limit			10
SampID: 23071810-111BMSD												Date Analyzed	
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Phosphorus, Orthophosphate (as P)			0.010		0.055	0.0500	0	110.0	0.05500	0.00		08/10/2023	

Batch R335029		SampType: MS		Units mg/L							
SampID: 23071810-029BMS											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Phosphorus, Orthophosphate (as P)			0.010		0.070	0.0500	0.01800	104.0	85	115	08/15/2023

Batch R335029		SampType: MSD	Units mg/L							RPD Limit 10	
SampID: 23071810-029BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)			0.010		0.072	0.0500	0.01800	108.0	0.07000	2.82	08/15/2023

Batch R335029		SampType: MS		Units mg/L							
SampID: 23071810-042BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		0.054	0.0500	0	108.0	85	115	08/15/2023	

Batch R335029		SampType: MSD	Units mg/L					RPD Limit 10			
SampID: 23071810-042BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)			0.010		0.052	0.0500	0	104.0	0.05400	3.77	08/15/2023

Batch R335029		SampType: MS		Units mg/L							
SampID: 23071810-051BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		0.056	0.0500	0.01100	90.0	85	115	08/15/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

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STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R335029		SampType: MSD		Units mg/L			RPD Limit 10				
SampID: 23071810-051BMSD											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Phosphorus, Orthophosphate (as P)			0.010		0.056	0.0500	0.01100	90.0	0.05600	0.00	08/15/2023

Batch R335135		SampType: MS		Units mg/L							
SampID: 23071810-054BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Phosphorus, Orthophosphate (as P)		0.010		0.049	0.0500	0	98.0	85	115	08/16/2023	

Batch R335135		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed		
SampID: 23071810-054BMSD													
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Phosphorus, Orthophosphate (as P)				0.010		0.050	0.0500	0		100.0	0.04900	2.02	08/16/2023

Batch R335135		SampType: MS		Units mg/L							
SampID: 23071810-103BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		0.055	0.0500	0	110.0	85	115	08/16/2023	

Batch R335135		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed		
SampID: 23071810-103BMSD													
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Phosphorus, Orthophosphate (as P)				0.010		0.051	0.0500	0		102.0	0.05500	7.55	08/16/2023

STANDARD METHODS 4500-P E 1999, 2011

Batch R334877		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Phosphorus, Orthophosphate (as P)			0.010		< 0.010	0.0020	0	0	-100	100	08/11/2023

Batch R334877		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Orthophosphate (as P)		0.010		0.105	0.1000	0	105.0	90	110	08/11/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

STANDARD METHODS 4500-P E 1999, 2011

Batch R334938	SampType: MBLK	Units mg/L								
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		< 0.010	0.0020	0	0	-100	100	08/10/2023

Batch R334938		SampType: LCS		Units mg/L							
SampID: LCS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Phosphorus, Orthophosphate (as P)		0.010		0.099	0.1000	0	99.0	90	110	08/10/2023	

Batch R335029	SampType: MBLK	Units mg/L								
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		< 0.010	0.0020	0	0	-100	100	08/15/2023

Batch R335029		SampType: LCS		Units mg/L							
SampID: LCS											Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Phosphorus, Orthophosphate (as P)			0.010		0.105	0.1000	0	105.0	90	110	08/15/2023

Batch R335135		SampType: MBLK		Units mg/L							
SampID: MBLK											Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Phosphorus, Orthophosphate (as P)			0.010		< 0.010	0.0020	0	0	-100	100	08/16/2023

Batch R335135		SampType: LCS		Units mg/L							
SampID: LCS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Phosphorus, Orthophosphate (as P)		0.010		0.108	0.1000	0	108.0	90	110	08/16/2023	

SW-846 9012A (TOTAL)

Batch 210749		SampType: MBLK		Units mg/L							
SampID: MBLK 230811 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	08/14/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

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SW-846 9012A (TOTAL)

Batch 210749		SampType: LCS		Units mg/L							
SampID: LCS 230811 TCN1											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Cyanide		0.005		0.027	0.0250	0	107.8	90	110	08/14/2023	

Batch 210749		SampType: MS		Units mg/L							
SampID: 23071810-002EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	104.5	75	125	08/14/2023	

Batch 210749		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-002EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005		0.025	0.0250	0	100.2	0.02613	4.26	08/14/2023	

Batch 210822		SampType: MBLK		Units mg/L							
SampID: MBLK 230814 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	08/15/2023	

Batch 210822		SampType: LCS		Units mg/L							
SampID: LCS 230814 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	105.1	90	110	08/15/2023	

Batch 210822		SampType: MS		Units mg/L							
SampID: 23071810-004EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	105.5	75	125	08/15/2023	

Batch 210822		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-004EMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide			0.005		0.026	0.0250	0	102.5	0.02636	2.83	08/15/2023

Batch 210824		SampType: MBLK		Units mg/L							
SampID: MBLK 230814 TCN3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	08/15/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9012A (TOTAL)

Batch 210824		SampType: LCS		Units mg/L							
SampID: LCS 230814 TCN3											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Cyanide		0.005		0.026	0.0250	0	103.6	85	115	08/15/2023	

Batch 210824		SampType: MS		Units mg/L							
SampID: 23071810-020DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.028	0.0250	0	111.3	75	125	08/15/2023	

Batch 210824		SampType: MSD		Units mg/L				RPD Limit 15				
SampID: 23071810-020DMSD												Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Cyanide			0.005		0.028	0.0250	0	110.8	0.02782	0.43	08/15/2023	

Batch 210912		SampType: MBLK		Units mg/L							
SampID: MBLK 230815 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	08/16/2023	

Batch 210912		SampType: LCS		Units mg/L							
SampID: LCS 230815 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	104.5	90	110	08/16/2023	

Batch 210912		SampType: MS		Units mg/L							
SampID: 23071810-036EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005	S	0.017	0.0250	0	69.9	75	125	08/16/2023	

Batch 210912		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-036EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005	R	0.024	0.0250	0	95.2	0.01747	30.72	08/16/2023	

Batch 210912		SampType: MS		Units mg/L							
SampID: 23071810-042EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.028	0.0250	0.001480	106.1	75	125	08/16/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9012A (TOTAL)

Batch 210912		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-042EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005		0.028	0.0250	0.001480	106.3	0.02800	0.17	08/16/2023	

Batch 210913		SampType: MBLK		Units mg/L							
SampID: MBLK 230815 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	08/16/2023	

Batch 210913		SampType: LCS		Units mg/L						
SampID: LCS 230815 TCN2										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		0.026	0.0250	0	104.1	90	110	08/16/2023

Batch 210913		SampType: MS		Units mg/L						
SampID: 23071810-051EMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		0.028	0.0250	0	113.0	75	125	08/16/2023

Batch 210913		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-051EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005	R	0.023	0.0250	0	93.8	0.02824	18.51	08/16/2023	

Batch 210913		SampType: MS		Units mg/L							
SampID: 23071810-079EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.027	0.0250	0	109.8	75	125	08/16/2023	

Batch 210913		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-079EMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide			0.005		0.025	0.0250	0	98.3	0.02744	10.99	08/16/2023

Batch 210967		SampType: MBLK		Units mg/L							
SampID: MBLK 230816 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	08/17/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9012A (TOTAL)

Batch 210967		SampType: LCS		Units mg/L							
SampID: LCS 230816 TCN1											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.026	0.0250	0	104.4	90	110	08/17/2023	

Batch 210967		SampType: MS		Units mg/L						
SampID: 23071810-078EMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		0.022	0.0250	0	86.6	75	125	08/17/2023

Batch 210967		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-078EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005	R	0.025	0.0250	0	101.1	0.02164	15.46	08/17/2023	

Batch 210967		SampType: MS		Units mg/L						
SampID: 23071810-083EMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		0.027	0.0250	0	108.1	75	125	08/17/2023

Batch 210967		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-083EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005		0.027	0.0250	0	108.6	0.02704	0.46	08/17/2023	

SW-846 9036 (DISSOLVED)

Batch R335217		SampType: MS		Units mg/L							
SampID: 23071810-001BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		100	S	285	200.0	124.3	80.5	85	115	08/18/2023	

Batch R335217		SampType: MSD		Units mg/L					RPD Limit 10		
SampID: 23071810-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			100	S	282	200.0	124.3	79.1	285.2	0.95	08/18/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9036 (DISSOLVED)

Batch R335452		SampType: MS		Units mg/L							Date
SampID: 23071810-007BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		20	E	106	40.00	69.98	90.7	85	115	08/23/2023	

Batch R335452		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-007BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Sulfate		20	E	108	40.00	69.98	94.5	106.3	1.41	08/23/2023		

Batch R335452		SampType: MS		Units mg/L							Date
SampID: 23071810-015BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		100		323	200.0	126.0	98.4	85	115	08/23/2023	

Batch R335452		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-015BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Sulfate		100		315	200.0	126.0	94.7	322.9	2.33	08/23/2023		

Batch R335452		SampType: MS		Units mg/L							Date
SampID: 23071810-022BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		20	E	109	40.00	74.41	86.9	85	115	08/23/2023	

Batch R335452		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-022BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Sulfate		20	E	110	40.00	74.41	88.2	109.2	0.48	08/23/2023		

Batch R335452		SampType: MS		Units mg/L							Date
SampID: 23071810-037BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		200		783	400.0	400.3	95.6	85	115	08/23/2023	

Batch R335452		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-037BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Sulfate		200		752	400.0	400.3	87.9	782.9	4.03	08/23/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9036 (DISSOLVED)

Batch R335452		SampType: MS		Units mg/L							
SampID: 23071810-053BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		100		435	200.0	252.1	91.4	85	115	08/23/2023	

Batch R335452		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-053BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			100		446	200.0	252.1	96.8	434.8	2.44	08/23/2023

Batch R335683		SampType: MS		Units mg/L							
SampID: 23071810-069BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		200	E	1060	400.0	686.8	92.4	85	115	08/29/2023	

Batch R335683		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-069BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			200	E	1070	400.0	686.8	95.8	1056	1.29	08/29/2023

Batch R335683		SampType: MS		Units mg/L							
SampID: 23071810-101BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		50		177	100.0	90.46	86.0	85	115	08/29/2023	

Batch R335683		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-101BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			50	S	175	100.0	90.46	84.4	176.5	0.96	08/29/2023

Batch R335764		SampType: MS		Units mg/L							
SampID: 23071810-062BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100	S	302	200.0	139.0	81.7	85	115	08/30/2023	

Batch R335764		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-062BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			100	S	305	200.0	139.0	83.0	302.4	0.84	08/30/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9036 (DISSOLVED)

Batch R335764		SampType: MS		Units mg/L							Date
SampID: 23071810-094BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		2000	E	12000	4000	8358	90.3	85	115	08/30/2023	

Batch R335764		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 23071810-094BMSD											Analyzed	
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Sulfate		2000	E	12100	4000	8358	94.1	11970	1.27	08/30/2023		

SW-846 9036 (TOTAL)

Batch R335217		SampType: MBLK		Units mg/L							Date
SampID: ICB/MBLK											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10		< 10	6.140	0	0	-100	100	08/17/2023	

Batch R335217		SampType: LCS		Units mg/L							Date
SampID: ICB/LCS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10		20	20.00	0	99.6	90	110	08/17/2023	

Batch R335341		SampType: MBLK		Units mg/L							Date
SampID: ICB/MBLK											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10		< 10	6.140	0	0	-100	100	08/21/2023	

Batch R335341		SampType: LCS		Units mg/L							Date
SampID: ICB/LCS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10		20	20.00	0	98.0	90	110	08/21/2023	

Batch R335452		SampType: MBLK		Units mg/L							Date
SampID: ICB/MBLK											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10		< 10	6.140	0	0	-100	100	08/23/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

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SW-846 9036 (TOTAL)

Batch R335452		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	95.9	90	110	08/23/2023	

Batch R335683		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	08/29/2023	

Batch R335683		SampType: LCS		Units mg/L							
SampID: ICV/LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Sulfate		10		19	20.00	0	95.0	90	110	08/29/2023	

Batch R335683		SampType: MS		Units mg/L							
SampID: 23071810-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		299	200.0	125.8	86.5	85	115	08/29/2023	

Batch R335683		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23071810-002AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Sulfate			100		297	200.0	125.8	85.4	298.9	0.72	08/29/2023

Batch R335683		SampType: MS		Units mg/L							
SampID: 23071810-017AMS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Sulfate		100	S	258	200.0	102.8	77.4	85	115	08/29/2023	

Batch R335683		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-017AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		100	S	253	200.0	102.8	75.2	257.7	1.73	08/29/2023	

Batch R335764		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10		< 10	6.140	0	0	-100	100	08/30/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9036 (TOTAL)

Batch R335764		SampType: LCS		Units mg/L							
SampID: ICV/LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Sulfate		10		19	20.00	0	96.6	90	110	08/30/2023	

Batch R335764		SampType: MS		Units mg/L							
SampID: 23071810-031AMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		20	E	112	40.00	77.15	86.9	85	115	08/30/2023	

Batch R335764		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-031AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			20	E	115	40.00	77.15	94.6	111.9	2.74	08/30/2023

Batch R335764		SampType: MS		Units mg/L							
SampID: 23071810-043AMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		100		465	200.0	286.4	89.5	85	115	08/30/2023	

Batch R335764		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-043AMSD											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Sulfate			100		471	200.0	286.4	92.2	465.4	1.15	08/30/2023

Batch R335764		SampType: MS		Units mg/L							
SampID: 23071810-101AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50	S	172	100.0	87.16	84.7	85	115	08/30/2023	

Batch R335764		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-101AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			50		183	100.0	87.16	96.0	171.9	6.37	08/30/2023

Batch R335914		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	09/01/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9036 (TOTAL)

Batch R335914		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		20	20.00	0	98.7	90	110	09/01/2023	

Batch R336010		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	09/06/2023	

Batch R336010		SampType: LCS		Units mg/L							
SampID: ICB/LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Sulfate		10		19	20.00	0	97.0	90	110	09/06/2023	

Batch R336163		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	09/08/2023	

Batch R336163		SampType: LCS		Units mg/L							
SampID: ICV/LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Sulfate		10		18	20.00	0	91.5	90	110	09/08/2023	

SW-846 9060A

Batch R335646		SampType: MBLK		Units mg/L							
SampID: FILTER MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		< 1.0	0.4500	0	0	-100	100	08/28/2023	

Batch R335646		SampType: MBLK		Units mg/L							
SampID: MB-R335646											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Dissolved Organic Carbon		1.0		< 1.0	0.4500	0	0	-100	100	08/28/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9060A

Batch R335646		SampType: LCS		Units mg/L						
SampID: LCS-R335646										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		4.7	5.000	0	93.8	90	110	08/28/2023

Batch R335646		SampType: MS		Units mg/L						
SampID: 23071810-025GMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0	S	4.9	5.000	1.350	71.2	85	115	08/28/2023

Batch R335646		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-025GMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Dissolved Organic Carbon			1.0	S	5.4	5.000	1.350	80.6	4.910	9.14	08/28/2023

Batch R335646		SampType: MS		Units mg/L							
SampID: 23071810-037GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		5.2	5.000	0.8400	86.6	85	115	08/28/2023	

Batch R335646		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 23071810-037GMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Dissolved Organic Carbon			1.0	S	4.9	5.000	0.8400	81.4	5.170	5.16	08/28/2023

Batch R335646		SampType: MS		Units mg/L							
SampID: 23071810-060FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		6.4	5.000	1.840	90.2	85	115	08/29/2023	

Batch R335646		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-060FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Dissolved Organic Carbon			1.0		6.4	5.000	1.840	92.0	6.350	1.41	08/29/2023

Batch R335851		SampType: MBLK		Units mg/L							
SampID: FILTER MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		< 1.0	0.4500	0	0	-100	100	08/31/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9060A

Batch R335851		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		< 1.0	0.4500	0	0	-100	100	08/31/2023	

Batch R335851		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		4.9	5.000	0	97.8	90	110	08/31/2023	

Batch R335851		SampType: MS		Units mg/L							
SampID: 23071810-037FMS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Total Organic Carbon (TOC)		1.0		6.0	5.000	1.210	95.2	85	115	08/31/2023	

Batch R335851		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-037FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)			1.0		6.2	5.000	1.210	98.8	5.970	2.97	08/31/2023

Batch R335851		SampType: MS		Units mg/L							
SampID: 23071810-065FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		6.0	5.000	1.330	94.4	85	115	08/31/2023	

Batch R335851		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-065FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Dissolved Organic Carbon			1.0		6.2	5.000	1.330	96.4	6.050	1.64	08/31/2023

Batch R335851		SampType: MS		Units mg/L							
SampID: 23071810-073EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0	E	12.4	5.000	7.650	94.2	85	115	08/31/2023	

Batch R335851		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-073EMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)			1.0	E	12.4	5.000	7.650	94.0	12.36	0.08	08/31/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9060A

Batch R335851		SampType: MS		Units mg/L						
SampID: 23071810-077GMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		5.7	5.000	0.8800	96.6	85	115	08/31/2023

Batch R335851		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-077GMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Dissolved Organic Carbon			1.0		5.8	5.000	0.8800	98.0	5.710	1.22	08/31/2023

Batch R335851		SampType: MS		Units mg/L							
SampID: 23071810-078FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		7.5	5.000	2.610	97.6	85	115	09/01/2023	

Batch R335851		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-078FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)			1.0		7.3	5.000	2.610	94.6	7.490	2.02	09/01/2023

Batch R335851		SampType: MS		Units mg/L							
SampID: 23071810-105FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		6.6	5.000	1.590	99.6	85	115	08/31/2023	

Batch R335851		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-105FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Dissolved Organic Carbon			1.0		6.3	5.000	1.590	94.4	6.570	4.04	08/31/2023

Batch R335935		SampType: MBLK		Units mg/L							
SampID: FILTER MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		< 1.0	0.4500	0	0	-100	100	09/05/2023	

Batch R335935		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		< 1.0	0.4500	0	0	-100	100	09/05/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9060A

Batch R335935		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		4.5	5.000	0	90.4	90	110	09/05/2023	

Batch R335935		SampType: MS		Units mg/L						
SampID: 23071810-052EMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		6.3	5.000	1.600	93.2	85	115	09/05/2023

Batch R335935		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 23071810-052EMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)			1.0		5.9	5.000	1.600	86.2	6.260	5.75	09/05/2023

Batch R336068		SampType: MBLK		Units mg/L							
SampID: FILTER MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Dissolved Organic Carbon		1.0		< 1.0	0.4500	0	0	-100	100	09/07/2023	

Batch R336068		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		< 1.0	0.4500	0	0	-100	100	09/07/2023	

Batch R336068		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Organic Carbon (TOC)		1.0		4.9	5.000	0	97.8	90	110	09/07/2023	

SW-846 9066 (TOTAL)

Batch R335106		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		< 0.005	0.0028	0	0	-100	100	08/16/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9066 (TOTAL)

Batch R335106		SampType: LCS		Units mg/L							
SampID: ICV/LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Phenols		0.005		0.053	0.0500	0	107.0	90	110	08/16/2023	

Batch R335106		SampType: MS		Units µg/L							
SampID: 23071810-002FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		5		54	50.00	0	108.1	85	115	08/16/2023	

Batch R335106		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 23071810-002FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			5		54	50.00	0	108.0	54.07	0.11	08/16/2023

Batch R335106		SampType: MS		Units µg/L							
SampID: 23071810-004FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		5		57	50.00	3.490	106.5	85	115	08/16/2023	

Batch R335106		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 23071810-004FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			5		56	50.00	3.490	104.9	56.76	1.47	08/16/2023

Batch R335286		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		< 0.005	0.0028	0	0	-100	100	08/21/2023	

Batch R335286		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		0.049	0.0500	0	98.0	90	110	08/21/2023	

Batch R335286		SampType: MS		Units µg/L							
SampID: 23071810-028FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		5	S	59	50.00	0	117.2	85	115	08/21/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9066 (TOTAL)

Batch R335286		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 23071810-028FMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Phenols		5	S	67	50.00	0	134.2	58.61	13.51	08/21/2023	

Batch R335286		SampType: MS		Units µg/L							Date Analyzed
SampID: 23071810-030FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Phenols		5	S	86	50.00	0	172.8	85	115	08/21/2023	

Batch R335286		SampType: MSD		Units µg/L				RPD Limit 15			Date Analyzed	
SampID: 23071810-030FMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Phenols		5	R	49	50.00	0	97.8	86.41	55.44	08/21/2023		

Batch R335407		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		< 0.005	0.0028	0	0	-100	100	08/23/2023	

Batch R335407		SampType: LCS		Units mg/L							
SampID: ICB/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		0.048	0.0500	0	97.0	90	110	08/23/2023	

SW-846 9214 (DISSOLVED)

Batch R334963		SampType: MS		Units mg/L							
SampID: 23071810-006BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.50	2.000	0.3860	105.8	75	125	08/14/2023	

Batch R334963		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-006BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.44	2.000	0.3860	102.8	2.502	2.39	08/14/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9214 (DISSOLVED)

Batch R334963		SampType: MS		Units mg/L						
SampID: 23071810-095BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.31	2.000	0.3320	98.9	75	125	08/14/2023

Batch R334963		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-095BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.29	2.000	0.3320	97.7	2.310	1.04	08/14/2023

Batch R335028		SampType: MS		Units mg/L							
SampID: 23071810-014BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.18	2.000	0.2160	98.0	75	125	08/15/2023	

Batch R335028		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 23071810-014BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Fluoride			0.10		2.15	2.000	0.2160	96.9	2.175	0.97	08/15/2023

Batch R335028		SampType: MS		Units mg/L							
SampID: 23071810-108BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.12	2.000	0.2560	93.0	75	125	08/15/2023	

Batch R335028		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-108BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.13	2.000	0.2560	93.6	2.117	0.52	08/15/2023

Batch R335102		SampType: MS		Units mg/L							
SampID: 23071810-029BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.61	2.000	0.4790	106.4	75	125	08/16/2023	

Batch R335102		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-029BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.57	2.000	0.4790	104.4	2.607	1.51	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9214 (DISSOLVED)

Batch R335102		SampType: MS		Units mg/L							
SampID: 23071810-036BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		2.43	2.000	0.3570	103.8	75	125	08/16/2023	

Batch R335102		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-036BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.41	2.000	0.3570	102.4	2.434	1.16	08/16/2023

Batch R335102		SampType: MS		Units mg/L							
SampID: 23071810-042BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.38	2.000	0.3380	102.2	75	125	08/16/2023	

Batch R335102		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-042BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.38	2.000	0.3380	102.0	2.381	0.13	08/16/2023

Batch R335102		SampType: MS		Units mg/L							
SampID: 23071810-107BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.97	2.000	0	98.4	75	125	08/16/2023	

Batch R335102		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-107BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.00	2.000	0	100.2	1.968	1.81	08/16/2023

SW-846 9214 (TOTAL)

Batch R334963		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride			0.10		< 0.10	0.0500	0	0	-100	100	08/14/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9214 (TOTAL)

Batch R334963		SampType: LCS		Units mg/L							
SampID: LCS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		0.97	1.000	0	97.0	90	110	08/14/2023	

Batch R334963		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-071AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		2.68	2.000	0.6470	101.6	75	125	08/14/2023	

Batch R334963		SampType: MSD		Units mg/L					RPD Limit 15		
SampID: 23071810-071AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.68	2.000	0.6470	101.6	2.678	0.04	08/14/2023

Batch R334963		SampType: MS		Units mg/L							
SampID: 23071810-105AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.92	2.000	0.5610	118.0	75	125	08/14/2023	

Batch R334963		SampType: MSD		Units mg/L					RPD Limit 15		
SampID: 23071810-105AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.76	2.000	0.5610	109.8	2.921	5.78	08/14/2023

Batch R335028		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	08/15/2023	

Batch R335028		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		0.94	1.000	0	94.2	90	110	08/15/2023	

Batch R335102		SampType: MBLK		Units mg/L								Date Analyzed
SampID: MBLK												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	08/16/2023		



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9214 (TOTAL)

Batch R335102		SampType: LCS		Units mg/L							
SampID: LCS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		1.00	1.000	0	99.6	90	110	08/16/2023	

Batch R335102		SampType: MS		Units mg/L							
SampID: 23071810-034AMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.10		2.45	2.000	0.3700	104.0	75	125	08/16/2023	

Batch R335102		SampType: MSD		Units mg/L					RPD Limit 15		
SampID: 23071810-034AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.46	2.000	0.3700	104.8	2.451	0.57	08/16/2023

Batch R335102		SampType: MS		Units mg/L								Date Analyzed
SampID: 23071810-043AMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Fluoride		0.10		2.29	2.000	0.3240	98.2	75	125	08/16/2023		

Batch R335102		SampType: MSD		Units mg/L					RPD Limit 15		
SampID: 23071810-043AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.32	2.000	0.3240	99.6	2.289	1.13	08/16/2023

Batch R335102		SampType: MS		Units mg/L							
SampID: 23071810-061AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.50	2.000	0.4880	100.8	75	125	08/16/2023	

Batch R335102		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-061AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.55	2.000	0.4880	103.1	2.505	1.78	08/16/2023	

Batch R335102		SampType: MS		Units mg/L								Date Analyzed
SampID: 23071810-075AMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Fluoride		0.10		1.99	2.000	0.1940	89.9	75	125	08/16/2023		



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9214 (TOTAL)

Batch R335102		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-075AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.05	2.000	0.1940	92.8	1.992	2.92	08/16/2023

Batch R335102		SampType: MS		Units mg/L							
SampID: 23071810-095AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.36	2.000	0.3380	101.2	75	125	08/16/2023	

Batch R335102		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed	
SampID: 23071810-095AMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride			0.10		2.42	2.000	0.3380	104.2	2.361	2.51	08/16/2023	

Batch R335102		SampType: MS		Units mg/L							
SampID: 23071810-110AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.30	2.000	0.3160	99.4	75	125	08/16/2023	

Batch R335102		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed	
SampID: 23071810-110AMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride			0.10		2.27	2.000	0.3160	97.8	2.304	1.44	08/16/2023	

SW-846 9251 (DISSOLVED)

Batch R335223		SampType: MS		Units mg/L							
SampID: 23071810-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		270	200.0	87.24	91.4	85	115	08/18/2023	

Batch R335223		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			40		268	200.0	87.24	90.6	270.0	0.61	08/18/2023



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9251 (DISSOLVED)

Batch R335354		SampType: MS		Units mg/L							Date
SampID: 23071810-007BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4	E	51	20.00	33.70	85.7	85	115	08/21/2023	

Batch R335354		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 23071810-007BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Chloride		4	E	51	20.00	33.70	85.5	50.83	0.06	08/21/2023		

Batch R335354		SampType: MS		Units mg/L							Date
SampID: 23071810-015BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		40		225	200.0	45.35	89.7	85	115	08/21/2023	

Batch R335354		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 23071810-015BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Chloride		40		224	200.0	45.35	89.5	224.7	0.12	08/21/2023		

Batch R335354		SampType: MS		Units mg/L							Date
SampID: 23071810-022BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		23	20.00	4.140	92.3	85	115	08/21/2023	

Batch R335354		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 23071810-022BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Chloride		4		23	20.00	4.140	92.5	22.60	0.18	08/21/2023		

Batch R335354		SampType: MS		Units mg/L							Date
SampID: 23071810-037BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		40		286	200.0	116.1	85.1	85	115	08/21/2023	

Batch R335354		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 23071810-037BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Chloride		40		286	200.0	116.1	85.0	286.3	0.04	08/21/2023		



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9251 (DISSOLVED)

Batch R335479		SampType: MS		Units mg/L							
SampID: 23071810-053BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		8		65	40.00	28.74	91.6	85	115	08/23/2023	

Batch R335479		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-053BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			8		66	40.00	28.74	94.4	65.37	1.71	08/23/2023

Batch R335479		SampType: MS		Units mg/L							
SampID: 23071810-069BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		8		57	40.00	21.57	88.1	85	115	08/23/2023	

Batch R335479		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-069BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			8		57	40.00	21.57	89.1	56.82	0.68	08/23/2023

Batch R335479		SampType: MS		Units mg/L							
SampID: 23071810-101BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		40		230	200.0	41.06	94.7	85	115	08/24/2023	

Batch R335479		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 23071810-101BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chloride		40		229	200.0	41.06	94.0	230.4	0.55	08/24/2023	

Batch R335729		SampType: MS		Units mg/L							
SampID: 23071810-062BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0.9900	94.8	85	115	08/29/2023	

Batch R335729		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-062BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			4		20	20.00	0.9900	96.0	19.95	1.20	08/29/2023



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9251 (DISSOLVED)

Batch R335780		SampType: MS		Units mg/L							
SampID: 23071810-094BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		400		3020	2000	1271	87.5	85	115	08/30/2023	

Batch R335780		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-094BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			400		3080	2000	1271	90.4	3020	1.89	08/30/2023

SW-846 9251 (TOTAL)

Batch R335223		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		< 4	0.5000	0	0	-100	100	08/17/2023	

Batch R335223		SampType: LCS		Units mg/L							
SampID: ICB/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	100.8	90	110	08/17/2023	

Batch R335354		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	08/21/2023	

Batch R335354		SampType: LCS		Units mg/L							
SampID: ICB/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	98.6	90	110	08/21/2023	

Batch R335479		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	08/23/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9251 (TOTAL)

Batch R335479		SampType: LCS		Units mg/L							
SampID: ICV/LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Chloride		4		20	20.00	0	101.8	90	110	08/23/2023	

Batch R335479		SampType: MS		Units mg/L							
SampID: 23071810-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		8		66	40.00	30.93	86.6	85	115	08/24/2023	

Batch R335479		SampType: MSD		Units mg/L					RPD Limit 15		
SampID: 23071810-002AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			8		67	40.00	30.93	90.3	65.58	2.23	08/24/2023

Batch R335729		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	08/29/2023	

Batch R335729		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	100.6	90	110	08/29/2023	

Batch R335729		SampType: MS		Units mg/L							
SampID: 23071810-017AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		270	200.0	81.59	94.1	85	115	08/29/2023	

Batch R335729		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-017AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			40		268	200.0	81.59	93.0	269.8	0.81	08/29/2023

Batch R335729		SampType: MS		Units mg/L							
SampID: 23071810-031AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4	E	61	20.00	42.33	93.0	85	115	08/29/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9251 (TOTAL)

Batch R335729		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-031AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			4	E	60	20.00	42.33	89.3	60.92	1.21	08/29/2023

Batch R335780		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	08/30/2023	

Batch R335780		SampType: LCS		Units mg/L								
SampID: ICV/LCS												Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride			4		20	20.00	0	99.7	90	110	08/30/2023	

Batch R335780		SampType: MS		Units mg/L							
SampID: 23071810-043AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		29	20.00	11.31	87.8	85	115	08/30/2023	

Batch R335780		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-043AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			4		29	20.00	11.31	87.8	28.87	0.00	08/30/2023

Batch R335780		SampType: MS		Units mg/L							
SampID: 23071810-101AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		140	100.0	45.31	94.3	85	115	08/30/2023	

Batch R335780		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-101AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			20		142	100.0	45.31	96.9	139.6	1.89	08/30/2023

Batch R335932		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	09/01/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 9251 (TOTAL)

Batch R335932		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	102.0	90	110	09/01/2023	

Batch R336035		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	09/06/2023	

Batch R336035		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	0	103.2	90	110	09/06/2023	

Batch R336144		SampType: MBLK		Units mg/L								
SampID: ICB/MBLK												Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Chloride		4		< 4	0.5000	0	0	-100	100		09/08/2023	

Batch R336144		SampType: MBLK		Units mg/L							
SampID: MBLK-211677											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride	*	4		< 4	0.5000	0	0	-100	100	09/08/2023	

Batch R336144		SampType: LCS		Units mg/L							
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		19	20.00	0	95.6	90	110	09/08/2023	



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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210784 SampType: MBLK Units mg/L

SampleID: MBLK-210784

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/14/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/14/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/14/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/14/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/14/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/14/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/14/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/14/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/14/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/14/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/14/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/14/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/14/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/14/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/14/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/14/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/14/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/14/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/14/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/14/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/14/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/14/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/14/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/14/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210784		SampType: LCS		Units mg/L							
SampID: LCS-210784											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		1.74	2.000	0	87.2	85	115	08/14/2023	
Antimony		0.0500		0.463	0.5000	0	92.5	85	115	08/14/2023	
Arsenic		0.0250		0.479	0.5000	0	95.8	85	115	08/14/2023	
Barium		0.0025		1.88	2.000	0	94.0	85	115	08/14/2023	
Beryllium		0.0005		0.0449	0.0500	0	89.8	85	115	08/14/2023	
Boron		0.0200		0.450	0.5000	0	89.9	85	115	08/14/2023	
Cadmium		0.0020		0.0501	0.0500	0	100.2	85	115	08/14/2023	
Calcium		0.100		2.34	2.500	0	93.7	85	115	08/14/2023	
Chromium		0.0050		0.182	0.2000	0	91.0	85	115	08/14/2023	
Cobalt		0.0050		0.449	0.5000	0	89.8	85	115	08/14/2023	
Copper		0.0050		0.230	0.2500	0	92.1	85	115	08/14/2023	
Iron		0.0400		1.85	2.000	0	92.7	85	115	08/14/2023	
Lead		0.0150		0.459	0.5000	0	91.7	85	115	08/14/2023	
Magnesium		0.0500		2.16	2.500	0	86.3	85	115	08/14/2023	
Manganese		0.0070		0.436	0.5000	0	87.3	85	115	08/14/2023	
Molybdenum		0.0100		0.452	0.5000	0	90.4	85	115	08/14/2023	
Nickel		0.0050		0.466	0.5000	0	93.2	85	115	08/14/2023	
Potassium		0.100		2.53	2.500	0	101.3	85	115	08/14/2023	
Selenium		0.0400		0.443	0.5000	0	88.6	85	115	08/14/2023	
Silver		0.0070		0.0485	0.0500	0	97.0	85	115	08/14/2023	
Sodium		0.0500		2.35	2.500	0	94.1	85	115	08/14/2023	
Thallium		0.0500		0.220	0.2500	0	88.2	85	115	08/14/2023	
Vanadium		0.0100		0.463	0.5000	0	92.6	85	115	08/14/2023	
Zinc		0.0100		0.460	0.5000	0	92.0	85	115	08/14/2023	

Batch 210784		SampType: MS		Units mg/L						
SampID: 23071810-002DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	71.5	2.500	70.76	31.2	75	125	08/14/2023
Magnesium		0.0500	S	32.4	2.500	30.84	61.9	75	125	08/14/2023
Potassium		0.100		2.91	2.500	0.4298	99.3	75	125	08/14/2023
Sodium		0.0500	S	63.8	2.500	62.24	61.6	75	125	08/14/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210784		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 23071810-002DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	72.3	2.500	70.76	61.2	71.54	1.04	08/14/2023
Magnesium		0.0500	S	32.7	2.500	30.84	72.4	32.39	0.81	08/14/2023
Potassium		0.100		2.88	2.500	0.4298	98.0	2.912	1.09	08/14/2023
Sodium		0.0500		64.2	2.500	62.24	78.0	63.78	0.64	08/14/2023

Batch 210814		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210814											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/15/2023	
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/15/2023	
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/15/2023	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/15/2023	
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/15/2023	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/15/2023	
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/15/2023	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/15/2023	
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/15/2023	
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/15/2023	
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/15/2023	
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/15/2023	
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/15/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/15/2023	
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/15/2023	
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/15/2023	
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/15/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/15/2023	
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/15/2023	
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/15/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/15/2023	
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/15/2023	
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/15/2023	
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/15/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210814		SampType: LCS		Units mg/L						
SampID: LCS-210814										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.79	2.000	0	89.3	85	115	08/15/2023
Antimony		0.0500		0.460	0.5000	0	91.9	85	115	08/15/2023
Arsenic		0.0250		0.495	0.5000	0	99.0	85	115	08/15/2023
Barium		0.0025		1.80	2.000	0	90.0	85	115	08/15/2023
Beryllium		0.0005		0.0459	0.0500	0	91.8	85	115	08/15/2023
Boron		0.0200		0.466	0.5000	0	93.3	85	115	08/15/2023
Cadmium		0.0020		0.0473	0.0500	0	94.6	85	115	08/15/2023
Calcium		0.100		2.38	2.500	0	95.2	85	115	08/15/2023
Chromium		0.0050		0.182	0.2000	0	90.8	85	115	08/15/2023
Cobalt		0.0050		0.464	0.5000	0	92.8	85	115	08/15/2023
Copper		0.0050		0.231	0.2500	0	92.3	85	115	08/15/2023
Iron		0.0400		1.81	2.000	0	90.6	85	115	08/15/2023
Lead		0.0150		0.463	0.5000	0	92.6	85	115	08/15/2023
Magnesium		0.0500		2.20	2.500	0	87.9	85	115	08/15/2023
Manganese		0.0070		0.451	0.5000	0	90.2	85	115	08/15/2023
Molybdenum		0.0100		0.445	0.5000	0	89.0	85	115	08/15/2023
Nickel		0.0050		0.470	0.5000	0	94.0	85	115	08/15/2023
Potassium		0.100		2.53	2.500	0	101.3	85	115	08/15/2023
Selenium		0.0400		0.474	0.5000	0	94.9	85	115	08/15/2023
Silver		0.0070		0.0440	0.0500	0	88.0	85	115	08/15/2023
Sodium		0.0500		2.27	2.500	0	90.9	85	115	08/15/2023
Thallium		0.0500		0.244	0.2500	0	97.4	85	115	08/15/2023
Vanadium		0.0100		0.450	0.5000	0	90.1	85	115	08/15/2023
Zinc		0.0100		0.468	0.5000	0	93.7	85	115	08/15/2023

Batch 210814		SampType: MS		Units mg/L						
SampID: 23071810-004DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	74.5	5.000	71.35	63.8	75	125	08/15/2023
Magnesium		0.0500	S	35.1	5.000	31.51	72.5	75	125	08/15/2023
Potassium		0.100		6.18	5.000	1.150	100.5	75	125	08/15/2023
Sodium		0.0500	S	53.4	5.000	51.02	47.4	75	125	08/15/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210814		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23071810-004DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Calcium		0.100	S	74.6	5.000	71.35	64.8	74.54	0.07	08/15/2023	
Magnesium		0.0500	S	35.0	5.000	31.51	70.1	35.14	0.35	08/15/2023	
Potassium		0.100		5.77	5.000	1.150	92.3	6.177	6.87	08/15/2023	
Sodium		0.0500	S	53.1	5.000	51.02	42.2	53.39	0.49	08/15/2023	

Batch 210814		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-016CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100		82.7	2.500	80.23	99.2	75	125	08/15/2023	
Magnesium		0.0500		39.0	2.500	36.68	94.1	75	125	08/15/2023	
Potassium		0.100		2.95	2.500	0.3913	102.2	75	125	08/15/2023	
Sodium		0.0500	S	54.3	2.500	52.86	57.2	75	125	08/15/2023	

Batch 210814		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 23071810-016CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		83.1	2.500	80.23	113.2	82.71	0.42	08/15/2023
Magnesium		0.0500		38.9	2.500	36.68	88.5	39.03	0.36	08/15/2023
Potassium		0.100		2.91	2.500	0.3913	100.9	2.946	1.15	08/15/2023
Sodium		0.0500	S	54.1	2.500	52.86	48.0	54.29	0.42	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210815 SampType: MBLK Units mg/L

SampleID: MBLK-210815

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/15/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/15/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/15/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/15/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/15/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/15/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/15/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/15/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/15/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/15/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/15/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/15/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/15/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/15/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/15/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/15/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/15/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/15/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/15/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/15/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/15/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/15/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/15/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/15/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210815		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210815											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		1.79	2.000	0	89.3	85	115	08/15/2023	
Antimony		0.0500		0.468	0.5000	0	93.6	85	115	08/15/2023	
Arsenic		0.0250		0.495	0.5000	0	99.0	85	115	08/15/2023	
Barium		0.0025		1.79	2.000	0	89.3	85	115	08/15/2023	
Beryllium		0.0005		0.0462	0.0500	0	92.4	85	115	08/15/2023	
Boron		0.0200		0.468	0.5000	0	93.6	85	115	08/15/2023	
Cadmium		0.0020		0.0487	0.0500	0	97.4	85	115	08/15/2023	
Calcium		0.100		2.37	2.500	0	94.7	85	115	08/15/2023	
Chromium		0.0050		0.183	0.2000	0	91.4	85	115	08/15/2023	
Cobalt		0.0050		0.467	0.5000	0	93.3	85	115	08/15/2023	
Copper		0.0050		0.229	0.2500	0	91.6	85	115	08/15/2023	
Iron		0.0400		1.82	2.000	0	91.1	85	115	08/15/2023	
Lead		0.0150		0.472	0.5000	0	94.3	85	115	08/15/2023	
Magnesium		0.0500		2.22	2.500	0	89.0	85	115	08/15/2023	
Manganese		0.0070		0.452	0.5000	0	90.5	85	115	08/15/2023	
Molybdenum		0.0100		0.449	0.5000	0	89.9	85	115	08/15/2023	
Nickel		0.0050		0.478	0.5000	0	95.7	85	115	08/15/2023	
Potassium		0.100		2.50	2.500	0	99.9	85	115	08/15/2023	
Selenium		0.0400		0.480	0.5000	0	95.9	85	115	08/15/2023	
Silicon	*	0.0500		0.443	0.5000	0	88.6	85	115	08/15/2023	
Silver		0.0070		0.0437	0.0500	0	87.4	85	115	08/15/2023	
Sodium		0.0500		2.27	2.500	0	90.7	85	115	08/15/2023	
Thallium		0.0500		0.236	0.2500	0	94.6	85	115	08/15/2023	
Vanadium		0.0100		0.453	0.5000	0	90.6	85	115	08/15/2023	
Zinc		0.0100		0.473	0.5000	0	94.7	85	115	08/15/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210815		SampType: MS		Units mg/L						
SampleID: 23071810-034DMS										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Aluminum		0.0250		1.80	2.000	0	90.0	75	125	08/15/2023
Arsenic		0.0250		0.512	0.5000	0	102.5	75	125	08/15/2023
Barium		0.0025		1.88	2.000	0.07570	90.1	75	125	08/15/2023
Beryllium		0.0005		0.0469	0.0500	0	93.8	75	125	08/15/2023
Boron		0.0200		0.471	0.5000	0	94.2	75	125	08/15/2023
Cadmium		0.0020		0.0472	0.0500	0	94.4	75	125	08/15/2023
Chromium		0.0050		0.183	0.2000	0	91.7	75	125	08/15/2023
Copper		0.0050		0.234	0.2500	0	93.6	75	125	08/15/2023
Iron		0.0400		1.81	2.000	0	90.3	75	125	08/15/2023
Lead		0.0150		0.460	0.5000	0	92.1	75	125	08/15/2023
Manganese		0.0070		0.490	0.5000	0.03660	90.7	75	125	08/15/2023
Molybdenum		0.0100		0.458	0.5000	0	91.6	75	125	08/15/2023
Nickel		0.0050		0.478	0.5000	0	95.5	75	125	08/15/2023
Silver		0.0070		0.0444	0.0500	0	88.8	75	125	08/15/2023
Zinc		0.0100		0.480	0.5000	0	96.0	75	125	08/15/2023

Batch 210815		SampType: MSD		Units mg/L					RPD Limit 20		Date Analyzed
SampID: 23071810-034DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Aluminum		0.0250		1.79	2.000	0	89.4	1.799	0.64	08/15/2023	
Arsenic		0.0250		0.511	0.5000	0	102.3	0.5125	0.23	08/15/2023	
Barium		0.0025		1.87	2.000	0.07570	89.5	1.878	0.60	08/15/2023	
Beryllium		0.0005		0.0467	0.0500	0	93.4	0.04690	0.43	08/15/2023	
Boron		0.0200		0.470	0.5000	0	94.0	0.4711	0.21	08/15/2023	
Cadmium		0.0020		0.0472	0.0500	0	94.4	0.04720	0.00	08/15/2023	
Chromium		0.0050		0.183	0.2000	0	91.7	0.1834	0.05	08/15/2023	
Copper		0.0050		0.235	0.2500	0	94.0	0.2339	0.47	08/15/2023	
Iron		0.0400		1.80	2.000	0	90.2	1.806	0.08	08/15/2023	
Lead		0.0150		0.461	0.5000	0	92.2	0.4603	0.11	08/15/2023	
Manganese		0.0070		0.490	0.5000	0.03660	90.7	0.4901	0.04	08/15/2023	
Molybdenum		0.0100		0.458	0.5000	0	91.5	0.4580	0.07	08/15/2023	
Nickel		0.0050		0.476	0.5000	0	95.3	0.4775	0.25	08/15/2023	
Silver		0.0070		0.0445	0.0500	0	89.0	0.04440	0.22	08/15/2023	
Zinc		0.0100		0.480	0.5000	0	95.9	0.4802	0.15	08/15/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210815		SampType: MS		Units mg/L						
SampID: 23071810-036DMS										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Aluminum		0.0250		1.83	2.000	0	91.6	75	125	08/15/2023
Arsenic		0.0250		0.514	0.5000	0	102.8	75	125	08/15/2023
Barium		0.0025		1.86	2.000	0.05010	90.3	75	125	08/15/2023
Beryllium		0.0005		0.0461	0.0500	0	92.2	75	125	08/15/2023
Boron		0.0200		1.47	0.5000	1.000	94.4	75	125	08/15/2023
Cadmium		0.0020		0.0473	0.0500	0	94.6	75	125	08/15/2023
Chromium		0.0050		0.182	0.2000	0	90.8	75	125	08/15/2023
Copper		0.0050		0.234	0.2500	0	93.5	75	125	08/15/2023
Iron		0.0400		7.54	2.000	5.680	93.0	75	125	08/15/2023
Lead		0.0150		0.452	0.5000	0	90.5	75	125	08/15/2023
Manganese		0.0070		0.976	0.5000	0.5338	88.4	75	125	08/15/2023
Molybdenum		0.0100		0.458	0.5000	0	91.6	75	125	08/15/2023
Nickel		0.0050		0.470	0.5000	0	94.0	75	125	08/15/2023
Silver		0.0070		0.0458	0.0500	0	91.6	75	125	08/15/2023
Zinc		0.0100		0.474	0.5000	0	94.8	75	125	08/15/2023

Batch 210815		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 23071810-036DMSD										Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD
Aluminum			0.0250		1.83	2.000	0	91.7	1.832	0.08
Arsenic			0.0250		0.519	0.5000	0	103.8	0.5140	0.93
Barium			0.0025		1.86	2.000	0.05010	90.7	1.856	0.42
Beryllium			0.0005		0.0465	0.0500	0	93.0	0.04610	0.86
Boron			0.0200		1.48	0.5000	1.000	95.8	1.472	0.48
Cadmium			0.0020		0.0469	0.0500	0	93.8	0.04730	0.85
Chromium			0.0050		0.182	0.2000	0	91.2	0.1816	0.44
Copper			0.0050		0.237	0.2500	0	94.7	0.2337	1.28
Iron			0.0400		7.59	2.000	5.680	95.5	7.540	0.66
Lead			0.0150		0.456	0.5000	0	91.1	0.4525	0.68
Manganese			0.0070		0.983	0.5000	0.5338	89.8	0.9760	0.71
Molybdenum			0.0100		0.457	0.5000	0	91.4	0.4579	0.17
Nickel			0.0050		0.473	0.5000	0	94.6	0.4700	0.68
Silver			0.0070		0.0466	0.0500	0	93.2	0.04580	1.73
Zinc			0.0100		0.478	0.5000	0	95.6	0.4741	0.84



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210825 SampType: MBLK Units mg/L

SampleID: MBLK-210825

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/16/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/16/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/16/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/16/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/16/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/16/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/16/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/16/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/16/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/16/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/16/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/16/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/16/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/16/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/16/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/16/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/16/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/16/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/16/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/16/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/16/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/16/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/16/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/16/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/16/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210825		SampType: LCS		Units mg/L							Date Analyzed	
SampID: LCS-210825												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Aluminum		0.0250		1.77	2.000	0	88.3	85	115	08/16/2023		
Antimony		0.0500		0.448	0.5000	0	89.7	85	115	08/16/2023		
Arsenic		0.0250		0.443	0.5000	0	88.5	85	115	08/16/2023		
Barium		0.0025		1.82	2.000	0	91.2	85	115	08/16/2023		
Beryllium		0.0005		0.0433	0.0500	0	86.6	85	115	08/16/2023		
Boron		0.0200		0.436	0.5000	0	87.2	85	115	08/16/2023		
Cadmium		0.0020		0.0434	0.0500	0	86.8	85	115	08/16/2023		
Calcium		0.100		2.38	2.500	0	95.3	85	115	08/16/2023		
Chromium		0.0050		0.175	0.2000	0	87.5	85	115	08/16/2023		
Cobalt		0.0050		0.441	0.5000	0	88.2	85	115	08/16/2023		
Copper		0.0050		0.230	0.2500	0	92.0	85	115	08/16/2023		
Iron		0.0400		1.74	2.000	0	87.2	85	115	08/16/2023		
Lead		0.0150		0.430	0.5000	0	86.0	85	115	08/16/2023		
Magnesium		0.0500		2.30	2.500	0	92.0	85	115	08/17/2023		
Manganese		0.0070		0.435	0.5000	0	87.0	85	115	08/16/2023		
Molybdenum		0.0100		0.428	0.5000	0	85.7	85	115	08/16/2023		
Nickel		0.0050		0.437	0.5000	0	87.3	85	115	08/16/2023		
Potassium		0.100		2.50	2.500	0	100.1	85	115	08/16/2023		
Selenium		0.0400		0.425	0.5000	0	85.0	85	115	08/16/2023		
Silicon	*	0.0500		0.451	0.5000	0	90.2	85	115	08/16/2023		
Silver		0.0070		0.0464	0.0500	0	92.8	85	115	08/16/2023		
Sodium		0.0500		2.28	2.500	0	91.1	85	115	08/16/2023		
Thallium		0.0500		0.220	0.2500	0	88.0	85	115	08/16/2023		
Vanadium		0.0100		0.439	0.5000	0	87.8	85	115	08/16/2023		
Zinc		0.0100		0.438	0.5000	0	87.6	85	115	08/16/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210825 SampType: MS Units mg/L

SampleID: 23071810-082DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.80	2.000	0.02590	88.8	75	125	08/16/2023
Arsenic		0.0250		0.478	0.5000	0	95.7	75	125	08/16/2023
Boron		0.0200		0.569	0.5000	0.1270	88.3	75	125	08/16/2023
Copper		0.0050		0.240	0.2500	0	95.9	75	125	08/16/2023
Iron		0.0400		2.73	2.000	0.8447	94.3	75	125	08/16/2023
Lead		0.0150		0.432	0.5000	0	86.3	75	125	08/16/2023
Manganese		0.0070		3.36	0.5000	2.966	78.6	75	125	08/16/2023
Nickel		0.0050		0.436	0.5000	0	87.1	75	125	08/16/2023
Silver		0.0070		0.0502	0.0500	0.003200	94.0	75	125	08/16/2023
Zinc		0.0100		0.452	0.5000	0	90.3	75	125	08/16/2023

Batch 210825 SampType: MSD Units mg/L

RPD Limit 20

SampleID: 23071810-082DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		1.81	2.000	0.02590	89.1	1.802	0.38	08/16/2023
Arsenic		0.0250		0.471	0.5000	0	94.1	0.4783	1.60	08/16/2023
Boron		0.0200		0.567	0.5000	0.1270	88.0	0.5686	0.25	08/16/2023
Copper		0.0050		0.237	0.2500	0	94.9	0.2398	1.09	08/16/2023
Iron		0.0400		2.72	2.000	0.8447	93.8	2.730	0.37	08/16/2023
Lead		0.0150		0.429	0.5000	0	85.9	0.4316	0.51	08/16/2023
Manganese		0.0070		3.36	0.5000	2.966	78.5	3.359	0.01	08/16/2023
Nickel		0.0050		0.435	0.5000	0	87.1	0.4356	0.07	08/16/2023
Silver		0.0070		0.0497	0.0500	0.003200	93.0	0.05020	1.00	08/16/2023
Zinc		0.0100		0.446	0.5000	0	89.2	0.4517	1.27	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210902 SampType: MBLK Units mg/L
SampleID: MBLK-210902

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/16/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/16/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/16/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/16/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/16/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/16/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/16/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/16/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/16/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/16/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/16/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/16/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/16/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/16/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/16/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/16/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/16/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/16/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/16/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/16/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/16/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/16/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/16/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/16/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/16/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210902		SampType: LCS		Units mg/L							Date Analyzed	
SampID: LCS-210902												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Aluminum		0.0250		1.78	2.000	0	89.2	85	115	08/16/2023		
Antimony		0.0500		0.451	0.5000	0	90.2	85	115	08/16/2023		
Arsenic		0.0250		0.450	0.5000	0	90.0	85	115	08/16/2023		
Barium		0.0025		1.84	2.000	0	92.1	85	115	08/16/2023		
Beryllium		0.0005		0.0438	0.0500	0	87.6	85	115	08/16/2023		
Boron		0.0200		0.449	0.5000	0	89.9	85	115	08/16/2023		
Cadmium		0.0020		0.0499	0.0500	0	99.8	85	115	08/17/2023		
Calcium		0.100		2.40	2.500	0	96.0	85	115	08/16/2023		
Chromium		0.0050		0.180	0.2000	0	90.1	85	115	08/16/2023		
Cobalt		0.0050		0.462	0.5000	0	92.4	85	115	08/16/2023		
Copper		0.0050		0.239	0.2500	0	95.7	85	115	08/16/2023		
Iron		0.0400		1.78	2.000	0	88.8	85	115	08/16/2023		
Lead		0.0150		0.440	0.5000	0	87.9	85	115	08/16/2023		
Magnesium		0.0500		2.29	2.500	0	91.5	85	115	08/17/2023		
Manganese		0.0070		0.454	0.5000	0	90.8	85	115	08/16/2023		
Molybdenum		0.0100		0.441	0.5000	0	88.2	85	115	08/16/2023		
Nickel		0.0050		0.443	0.5000	0	88.6	85	115	08/16/2023		
Potassium		0.100		2.48	2.500	0	99.1	85	115	08/16/2023		
Selenium		0.0400		0.432	0.5000	0	86.3	85	115	08/16/2023		
Silicon	*	0.0500		0.447	0.5000	0	89.3	85	115	08/16/2023		
Silver		0.0070		0.0460	0.0500	0	92.0	85	115	08/16/2023		
Sodium		0.0500		2.28	2.500	0	91.2	85	115	08/16/2023		
Thallium		0.0500		0.223	0.2500	0	89.1	85	115	08/16/2023		
Vanadium		0.0100		0.445	0.5000	0	89.0	85	115	08/16/2023		
Zinc		0.0100		0.442	0.5000	0	88.4	85	115	08/16/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210902		SampType: MS		Units mg/L						
SampID: 23071810-028DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.79	2.000	0.02120	88.6	75	125	08/16/2023
Arsenic		0.0250		0.456	0.5000	0	91.2	75	125	08/16/2023
Barium		0.0025		1.91	2.000	0.09310	91.1	75	125	08/16/2023
Beryllium		0.0005		0.0446	0.0500	0	89.2	75	125	08/16/2023
Boron		0.0200		0.446	0.5000	0	89.1	75	125	08/16/2023
Cadmium		0.0020		0.0415	0.0500	0	83.0	75	125	08/16/2023
Chromium		0.0050		0.178	0.2000	0	89.2	75	125	08/16/2023
Copper		0.0050		0.239	0.2500	0	95.5	75	125	08/16/2023
Iron		0.0400		1.77	2.000	0	88.6	75	125	08/16/2023
Lead		0.0150		0.431	0.5000	0	86.1	75	125	08/16/2023
Manganese		0.0070		0.458	0.5000	0.003900	90.8	75	125	08/16/2023
Molybdenum		0.0100		0.442	0.5000	0	88.5	75	125	08/16/2023
Nickel		0.0050		0.432	0.5000	0	86.4	75	125	08/16/2023
Silver		0.0070		0.0473	0.0500	0	94.6	75	125	08/16/2023
Zinc		0.0100		0.446	0.5000	0	89.3	75	125	08/16/2023

Batch 210902		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 23071810-028DMSD										Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD
Aluminum			0.0250		1.80	2.000	0.02120	88.9	1.793	0.39
Arsenic			0.0250		0.462	0.5000	0	92.5	0.4561	1.39
Barium			0.0025		1.94	2.000	0.09310	92.2	1.914	1.19
Beryllium			0.0005		0.0443	0.0500	0	88.6	0.04460	0.67
Boron			0.0200		0.452	0.5000	0	90.3	0.4456	1.32
Cadmium			0.0020		0.0418	0.0500	0	83.6	0.04150	0.72
Chromium			0.0050		0.180	0.2000	0	90.1	0.1784	1.00
Copper			0.0050		0.242	0.2500	0	96.6	0.2388	1.17
Iron			0.0400		1.78	2.000	0	89.2	1.772	0.71
Lead			0.0150		0.434	0.5000	0	86.8	0.4307	0.74
Manganese			0.0070		0.458	0.5000	0.003900	90.9	0.4577	0.15
Molybdenum			0.0100		0.450	0.5000	0	90.0	0.4424	1.68
Nickel			0.0050		0.437	0.5000	0	87.4	0.4321	1.10
Silver			0.0070		0.0475	0.0500	0	95.0	0.04730	0.42
Zinc			0.0100		0.450	0.5000	0	89.9	0.4464	0.74



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210902		SampType: MS		Units mg/L						
SampID: 23071810-030DMS										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Aluminum		0.0250		1.81	2.000	0	90.5	75	125	08/16/2023
Arsenic		0.0250		0.465	0.5000	0	93.0	75	125	08/16/2023
Barium		0.0025		1.88	2.000	0.04450	91.6	75	125	08/16/2023
Beryllium		0.0005		0.0446	0.0500	0	89.2	75	125	08/16/2023
Boron		0.0200		0.446	0.5000	0	89.2	75	125	08/16/2023
Cadmium		0.0020		0.0413	0.0500	0	82.6	75	125	08/16/2023
Chromium		0.0050		0.180	0.2000	0	89.8	75	125	08/16/2023
Copper		0.0050		0.241	0.2500	0	96.6	75	125	08/16/2023
Iron		0.0400		1.78	2.000	0	89.1	75	125	08/16/2023
Lead		0.0150		0.428	0.5000	0	85.6	75	125	08/16/2023
Manganese		0.0070		0.459	0.5000	0	91.7	75	125	08/16/2023
Molybdenum		0.0100		0.446	0.5000	0	89.2	75	125	08/16/2023
Nickel		0.0050		0.435	0.5000	0	87.0	75	125	08/16/2023
Silver		0.0070		0.0480	0.0500	0	96.0	75	125	08/16/2023
Zinc		0.0100		0.450	0.5000	0	89.9	75	125	08/16/2023

Batch 210902	SampType: MSD	Units mg/L				RPD Limit 20				
SampID: 23071810-030DMSD										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Aluminum		0.0250		1.81	2.000	0	90.7	1.810	0.18	08/16/2023
Arsenic		0.0250		0.466	0.5000	0	93.3	0.4651	0.30	08/16/2023
Barium		0.0025		1.87	2.000	0.04450	91.3	1.877	0.33	08/16/2023
Beryllium		0.0005		0.0443	0.0500	0	88.6	0.04460	0.67	08/16/2023
Boron		0.0200		0.447	0.5000	0	89.4	0.4459	0.20	08/16/2023
Cadmium		0.0020		0.0410	0.0500	0	82.0	0.04130	0.73	08/16/2023
Chromium		0.0050		0.178	0.2000	0	89.2	0.1795	0.67	08/16/2023
Copper		0.0050		0.241	0.2500	0	96.5	0.2414	0.04	08/16/2023
Iron		0.0400		1.78	2.000	0	88.9	1.782	0.25	08/16/2023
Lead		0.0150		0.429	0.5000	0	85.8	0.4282	0.23	08/16/2023
Manganese		0.0070		0.458	0.5000	0	91.6	0.4586	0.17	08/16/2023
Molybdenum		0.0100		0.444	0.5000	0	88.9	0.4461	0.40	08/16/2023
Nickel		0.0050		0.434	0.5000	0	86.7	0.4349	0.32	08/16/2023
Silver		0.0070		0.0475	0.0500	0	95.0	0.04800	1.05	08/16/2023
Zinc		0.0100		0.450	0.5000	0	89.9	0.4495	0.04	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210928 SampType: MBLK Units mg/L
SampleID: MBLK-210928

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/16/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/16/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/16/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/16/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/16/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/16/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/16/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/16/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/16/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/16/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/16/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/16/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/16/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/16/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/16/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/16/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/16/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/16/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/16/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/16/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/16/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/16/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/16/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/16/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210928		SampType: LCS		Units mg/L						
SampID: LCS-210928										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.75	2.000	0	87.7	85	115	08/16/2023
Antimony		0.0500		0.437	0.5000	0	87.3	85	115	08/16/2023
Arsenic		0.0250		0.442	0.5000	0	88.5	85	115	08/16/2023
Barium		0.0025		1.83	2.000	0	91.6	85	115	08/16/2023
Beryllium		0.0005		0.0431	0.0500	0	86.2	85	115	08/16/2023
Boron		0.0200		0.432	0.5000	0	86.4	85	115	08/16/2023
Cadmium		0.0020		0.0440	0.0500	0	88.0	85	115	08/16/2023
Calcium		0.100		2.37	2.500	0	94.8	85	115	08/16/2023
Chromium		0.0050		0.174	0.2000	0	87.0	85	115	08/16/2023
Cobalt		0.0050		0.438	0.5000	0	87.7	85	115	08/16/2023
Copper		0.0050		0.231	0.2500	0	92.4	85	115	08/16/2023
Iron		0.0400		1.75	2.000	0	87.5	85	115	08/16/2023
Lead		0.0150		0.430	0.5000	0	86.0	85	115	08/16/2023
Magnesium		0.0500		2.33	2.500	0	93.4	85	115	08/17/2023
Manganese		0.0070		0.432	0.5000	0	86.5	85	115	08/16/2023
Molybdenum		0.0100		0.425	0.5000	0	85.0	85	115	08/16/2023
Nickel		0.0050		0.433	0.5000	0	86.5	85	115	08/16/2023
Potassium		0.100		2.50	2.500	0	100.0	85	115	08/16/2023
Silicon	*	0.0500		0.444	0.5000	0	88.8	85	115	08/16/2023
Silver		0.0070		0.0464	0.0500	0	92.8	85	115	08/16/2023
Sodium		0.0500		2.28	2.500	0	91.2	85	115	08/16/2023
Thallium		0.0500		0.213	0.2500	0	85.4	85	115	08/16/2023
Vanadium		0.0100		0.440	0.5000	0	87.9	85	115	08/16/2023
Zinc		0.0100		0.436	0.5000	0	87.3	85	115	08/16/2023

Batch 210928		SampType: MS		Units mg/L						
SampID: 23071810-094DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	434	2.500	440.1	-234.4	75	125	08/16/2023
Magnesium		0.0500	S	799	2.500	801.1	-93.1	75	125	08/16/2023
Potassium		2.00	S	106	2.500	105.6	20.4	75	125	08/17/2023
Silicon	*	0.0500		7.27	0.5000	6.876	79.2	75	125	08/16/2023
Sodium		0.0500	S	363	2.500	367.8	-210.0	75	125	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210928		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 23071810-094DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	435	2.500	440.1	-202.8	434.3	0.18	08/16/2023
Magnesium		0.0500	S	803	2.500	801.1	69.2	798.7	0.51	08/16/2023
Potassium		2.00	S	106	2.500	105.6	3.4	106.1	0.40	08/17/2023
Silicon	*	0.0500		7.25	0.5000	6.876	75.1	7.272	0.28	08/16/2023
Sodium		0.0500	S	364	2.500	367.8	-164.8	362.6	0.31	08/16/2023

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210770		SampType: MBLK		Units mg/L							
SampID: MBLK-210770											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/15/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/15/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/15/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/15/2023	

Batch 210770		SampType: LCS		Units mg/L						
SampID: LCS-210770										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.66	2.500	0	106.4	85	115	08/15/2023
Magnesium		0.0500		2.42	2.500	0	96.6	85	115	08/15/2023
Potassium		0.100		2.79	2.500	0	111.7	85	115	08/15/2023
Sodium		0.0500		2.61	2.500	0	104.6	85	115	08/15/2023

Batch 210770		SampType: MS		Units mg/L						
SampID: 23071810-009CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	98.0	2.500	94.85	128.0	75	125	08/15/2023
Magnesium		0.0500		44.6	2.500	41.82	112.9	75	125	08/15/2023
Potassium		0.100		3.02	2.500	0.2669	110.3	75	125	08/15/2023
Sodium		0.0500		55.2	2.500	52.11	122.8	75	125	08/15/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210770		SampType: MSD		Units mg/L				RPD Limit 20		
SampleID: 23071810-009CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		97.9	2.500	94.85	120.4	98.05	0.19	08/15/2023
Magnesium		0.0500		44.6	2.500	41.82	111.7	44.64	0.07	08/15/2023
Potassium		0.100		3.00	2.500	0.2669	109.4	3.024	0.75	08/15/2023
Sodium		0.0500	S	55.3	2.500	52.11	127.2	55.18	0.20	08/15/2023

Batch 210785		SampType: MBLK		Units mg/L						
SampleID: MBLK-210785										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/15/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/15/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/15/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/15/2023

Batch 210785		SampType: LCS		Units mg/L						
SampleID: LCS-210785										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.58	2.500	0	103.3	85	115	08/15/2023
Magnesium		0.0500		2.33	2.500	0	93.3	85	115	08/15/2023
Potassium		0.100		2.76	2.500	0	110.6	85	115	08/15/2023
Sodium		0.0500		2.56	2.500	0	102.4	85	115	08/15/2023

Batch 210785	SampType: LCSD	Units mg/L						RPD Limit 20		
SampleID: LCSD-210785										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		2.54	2.500	0	101.7	2.582	1.55	08/15/2023
Magnesium		0.0500		2.34	2.500	0	93.5	2.332	0.27	08/15/2023
Potassium		0.100		2.76	2.500	0	110.3	2.765	0.22	08/15/2023
Sodium		0.0500		2.56	2.500	0	102.2	2.559	0.16	08/15/2023

Batch 210785		SampType: MS		Units mg/L						
SampleID: 23071810-012CMS										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Calcium		0.100	S	87.2	2.500	83.60	142.0	75	125	08/15/2023
Magnesium		0.0500	S	42.8	2.500	39.63	127.9	75	125	08/15/2023
Potassium		0.100		3.43	2.500	0.6776	110.0	75	125	08/15/2023
Sodium		0.0500		42.2	2.500	39.16	119.6	75	125	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210785		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23071810-012CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Calcium		0.100	S	87.8	2.500	83.60	169.2	87.15	0.78		
Magnesium		0.0500	S	42.8	2.500	39.63	126.4	42.82	0.09		
Potassium		0.100		3.44	2.500	0.6776	110.3	3.429	0.19		
Sodium		0.0500	S	42.3	2.500	39.16	125.6	42.15	0.36		

Batch 210785		SampType: MS		Units mg/L						
SampID: 23071810-017CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		69.6	2.500	67.64	80.0	75	125	08/15/2023
Magnesium		0.0500		34.6	2.500	32.47	83.9	75	125	08/15/2023
Potassium		0.100		3.15	2.500	0.3994	109.9	75	125	08/15/2023
Sodium		0.0500		85.2	2.500	83.10	83.6	75	125	08/15/2023

Batch 210785		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 23071810-017CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	69.5	2.500	67.64	74.0	69.64	0.22	08/15/2023
Magnesium		0.0500		34.6	2.500	32.47	83.7	34.57	0.02	08/15/2023
Potassium		0.100		3.16	2.500	0.3994	110.6	3.148	0.50	08/15/2023
Sodium		0.0500		85.2	2.500	83.10	85.2	85.19	0.05	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210812 SampType: MBLK Units mg/L

SampleID: MBLK-210812

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/15/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/15/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/15/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/15/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/15/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/15/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/15/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/15/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/15/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/15/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/15/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/15/2023
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	08/15/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/15/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/15/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/15/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/15/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/15/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/15/2023
Silicon	*	0.0500	JS	0.031	0.0122	0	255.7	-100	100	08/15/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/15/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/15/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/15/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/15/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/15/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210812		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210812											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		1.98	2.000	0	99.2	85	115	08/15/2023	
Antimony		0.0500		0.537	0.5000	0	107.4	85	115	08/15/2023	
Arsenic		0.0250		0.570	0.5000	0	114.0	85	115	08/15/2023	
Barium		0.0025		2.11	2.000	0	105.5	85	115	08/15/2023	
Beryllium		0.0005		0.0526	0.0500	0	105.2	85	115	08/15/2023	
Boron		0.0200		0.524	0.5000	0	104.9	85	115	08/15/2023	
Cadmium		0.0020		0.0545	0.0500	0	109.0	85	115	08/15/2023	
Calcium		0.100		2.63	2.500	0	105.3	85	115	08/15/2023	
Chromium		0.0050		0.203	0.2000	0	101.6	85	115	08/15/2023	
Cobalt		0.0050		0.521	0.5000	0	104.2	85	115	08/15/2023	
Copper		0.0050		0.256	0.2500	0	102.6	85	115	08/15/2023	
Iron		0.0400		2.08	2.000	0	104.0	85	115	08/15/2023	
Lead		0.0150		0.523	0.5000	0	104.5	85	115	08/15/2023	
Magnesium		0.0500		2.49	2.500	0	99.5	85	115	08/15/2023	
Manganese		0.0070		0.506	0.5000	0	101.1	85	115	08/15/2023	
Molybdenum		0.0100		0.506	0.5000	0	101.2	85	115	08/15/2023	
Nickel		0.0050		0.533	0.5000	0	106.7	85	115	08/15/2023	
Potassium		0.100		2.71	2.500	0	108.2	85	115	08/15/2023	
Selenium		0.0400		0.536	0.5000	0	107.2	85	115	08/15/2023	
Silicon	*	0.0500	B	0.518	0.5000	0	103.6	85	115	08/15/2023	
Silver		0.0070		0.0489	0.0500	0	97.8	85	115	08/15/2023	
Sodium		0.0500		2.51	2.500	0	100.3	85	115	08/15/2023	
Thallium		0.0500		0.262	0.2500	0	104.8	85	115	08/15/2023	
Vanadium		0.0100		0.505	0.5000	0	101.0	85	115	08/15/2023	
Zinc		0.0100		0.528	0.5000	0	105.7	85	115	08/15/2023	

Batch 210812		SampType: MS		Units mg/L						
SampID: 23071810-101CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	80.7	2.500	76.79	156.0	75	125	08/15/2023
Magnesium		0.0500		36.9	2.500	33.90	119.3	75	125	08/15/2023
Potassium		0.100		3.03	2.500	0.2572	111.0	75	125	08/15/2023
Sodium		0.0500		64.6	2.500	61.58	119.2	75	125	08/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210812		SampType: MSD		Units mg/L				RPD Limit 20		
SampleID: 23071810-101CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		79.8	2.500	76.79	121.6	80.69	1.07	08/15/2023
Magnesium		0.0500		36.8	2.500	33.90	116.9	36.88	0.16	08/15/2023
Potassium		0.100		3.00	2.500	0.2572	109.9	3.031	0.87	08/15/2023
Sodium		0.0500		63.7	2.500	61.58	85.6	64.56	1.31	08/15/2023

Batch 210813		SampType: MBLK		Units mg/L						
SampleID: MBLK-210813										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/16/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/16/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/16/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/16/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/16/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/16/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/16/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/16/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/16/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/16/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/16/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/16/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/16/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/16/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/16/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/16/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/16/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/16/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/16/2023
Silicon	*	0.0500		< 0.0500	0.0310	0	0	-100	100	08/16/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/16/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/16/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/16/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/16/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/16/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210813		SampType: LCS		Units mg/L							Date Analyzed	
SampID: LCS-210813												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Aluminum		0.0250		1.96	2.000	0	97.9	85	115	08/16/2023		
Antimony		0.0500		0.499	0.5000	0	99.7	85	115	08/16/2023		
Arsenic		0.0250		0.500	0.5000	0	100.0	85	115	08/16/2023		
Barium		0.0025		1.98	2.000	0	99.0	85	115	08/16/2023		
Beryllium		0.0005		0.0492	0.0500	0	98.4	85	115	08/16/2023		
Boron		0.0200		0.493	0.5000	0	98.6	85	115	08/16/2023		
Cadmium		0.0020		0.0457	0.0500	0	91.4	85	115	08/16/2023		
Calcium		0.100		2.61	2.500	0	104.4	85	115	08/16/2023		
Chromium		0.0050		0.196	0.2000	0	98.0	85	115	08/16/2023		
Cobalt		0.0050		0.498	0.5000	0	99.7	85	115	08/16/2023		
Copper		0.0050		0.266	0.2500	0	106.5	85	115	08/16/2023		
Iron		0.0400		1.96	2.000	0	97.9	85	115	08/16/2023		
Lead		0.0150		0.478	0.5000	0	95.6	85	115	08/16/2023		
Magnesium		0.0500		2.32	2.500	0	92.8	85	115	08/16/2023		
Manganese		0.0070		0.502	0.5000	0	100.4	85	115	08/16/2023		
Molybdenum		0.0100		0.480	0.5000	0	96.0	85	115	08/16/2023		
Nickel		0.0050		0.482	0.5000	0	96.4	85	115	08/16/2023		
Potassium		0.100		2.63	2.500	0	105.2	85	115	08/16/2023		
Selenium		0.0400		0.476	0.5000	0	95.3	85	115	08/16/2023		
Silicon	*	0.0500		0.523	0.5000	0	104.6	85	115	08/16/2023		
Silver		0.0070		0.0500	0.0500	0	100.0	85	115	08/16/2023		
Sodium		0.0500		2.48	2.500	0	99.0	85	115	08/16/2023		
Thallium		0.0500		0.237	0.2500	0	94.9	85	115	08/16/2023		
Vanadium		0.0100		0.482	0.5000	0	96.4	85	115	08/16/2023		
Zinc		0.0100		0.487	0.5000	0	97.4	85	115	08/16/2023		

Batch 210813		SampType: MS		Units mg/L							Date Analyzed	
SampID: 23071810-082CMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Calcium		0.100	S	96.1	2.500	94.57	61.6	75	125	08/16/2023		

Batch 210813		SampType: MSD		Units mg/L					RPD Limit 20		Date Analyzed
SampID: 23071810-082CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Calcium		0.100	S	96.0	2.500	94.57	56.0	96.11	0.15	08/16/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210813		SampType: MS		Units mg/L						
SampID: 23071810-083CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		84.6	2.500	82.71	77.2	75	125	08/16/2023

Batch 210813		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 23071810-083CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium		0.100		85.1	2.500	82.71	96.8	84.64	0.58	08/16/2023	

Batch 210826		SampType: MBLK		Units mg/L							
SampID: MBLK-210826											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/16/2023	
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/16/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/16/2023	
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/16/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/16/2023	
Silicon	*	0.0500	JS	0.029	0.0122	0	237.7	-100	100	08/16/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/16/2023	

Batch 210826		SampType: LCS		Units mg/L							
SampID: LCS-210826											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Calcium		0.100		2.87	2.500	0	114.6	85	115	08/16/2023	
Copper		0.0050		0.279	0.2500	0	111.7	85	115	08/16/2023	
Magnesium		0.0500		2.64	2.500	0	105.8	85	115	08/16/2023	
Molybdenum		0.0100		0.542	0.5000	0	108.4	85	115	08/16/2023	
Potassium		0.100		2.78	2.500	0	111.4	85	115	08/16/2023	
Silicon	*	0.0500	B	0.549	0.5000	0	109.9	85	115	08/16/2023	
Sodium		0.0500		2.74	2.500	0	109.8	85	115	08/16/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210826		SampType: MS		Units mg/L						
SampID: 23071810-105CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		105	2.500	103.3	85.2	75	125	08/16/2023
Magnesium		0.0500		18.0	2.500	15.47	100.8	75	125	08/16/2023
Potassium		0.500		19.2	2.500	16.17	121.8	75	125	08/17/2023
Silicon	*	0.0500	B	10.8	0.5000	10.25	115.1	75	125	08/16/2023
Sodium		0.0500		44.4	2.500	42.27	83.6	75	125	08/16/2023

Batch 210826		SampType: MSD	Units mg/L					RPD Limit 20		
SampID: 23071810-105CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	104	2.500	103.3	41.2	105.4	1.05	08/16/2023
Magnesium		0.0500		17.8	2.500	15.47	92.5	17.99	1.17	08/16/2023
Potassium		0.500		18.9	2.500	16.17	110.5	19.21	1.49	08/17/2023
Silicon	*	0.0500	B	10.7	0.5000	10.25	85.6	10.83	1.37	08/16/2023
Sodium		0.0500	S	43.8	2.500	42.27	62.8	44.36	1.18	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210901 SampType: MBLK Units mg/L

SampleID: MBLK-210901

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/16/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/16/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/16/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/16/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/16/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/16/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/16/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/16/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/16/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/16/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/16/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/16/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/16/2023
Lithium		0.0050		< 0.0050	0.0019	0	0	-100	100	08/16/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/16/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/16/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/16/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/16/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/16/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/16/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/16/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/16/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/16/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/16/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/16/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210901		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210901											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		1.93	2.000	0	96.4	85	115	08/16/2023	
Antimony		0.0500		0.498	0.5000	0	99.7	85	115	08/16/2023	
Arsenic		0.0250		0.505	0.5000	0	100.9	85	115	08/16/2023	
Barium		0.0025		2.00	2.000	0	100.0	85	115	08/16/2023	
Beryllium		0.0005		0.0487	0.0500	0	97.4	85	115	08/16/2023	
Boron		0.0200		0.489	0.5000	0	97.9	85	115	08/16/2023	
Cadmium		0.0020		0.0485	0.0500	0	97.0	85	115	08/16/2023	
Calcium		0.100		2.62	2.500	0	104.9	85	115	08/16/2023	
Chromium		0.0050		0.193	0.2000	0	96.7	85	115	08/16/2023	
Cobalt		0.0050		0.490	0.5000	0	98.0	85	115	08/16/2023	
Copper		0.0050		0.255	0.2500	0	102.1	85	115	08/16/2023	
Iron		0.0400		1.94	2.000	0	97.2	85	115	08/16/2023	
Lead		0.0150		0.482	0.5000	0	96.4	85	115	08/16/2023	
Lithium		0.0050		0.468	0.5000	0	93.6	85	115	08/16/2023	
Magnesium		0.0500		2.32	2.500	0	92.8	85	115	08/16/2023	
Molybdenum		0.0100		0.474	0.5000	0	94.9	85	115	08/16/2023	
Nickel		0.0050		0.483	0.5000	0	96.6	85	115	08/16/2023	
Potassium		0.100		2.68	2.500	0	107.2	85	115	08/16/2023	
Selenium		0.0400		0.486	0.5000	0	97.2	85	115	08/16/2023	
Silicon	*	0.0500		0.520	0.5000	0	104.0	85	115	08/16/2023	
Silver		0.0070		0.0513	0.0500	0	102.6	85	115	08/16/2023	
Sodium		0.0500		2.50	2.500	0	100.2	85	115	08/16/2023	
Thallium		0.0500		0.243	0.2500	0	97.1	85	115	08/16/2023	
Vanadium		0.0100		0.487	0.5000	0	97.4	85	115	08/16/2023	
Zinc		0.0100		0.490	0.5000	0	98.0	85	115	08/16/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210901		SampType: MS		Units mg/L						
SampID: 23071810-028CMS										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Aluminum		0.0250		1.99	2.000	0.01430	99.0	75	125	08/16/2023
Arsenic		0.0250		0.504	0.5000	0	100.8	75	125	08/16/2023
Barium		0.0025		2.05	2.000	0.09890	97.6	75	125	08/16/2023
Beryllium		0.0005		0.0492	0.0500	0	98.4	75	125	08/16/2023
Boron		0.0200		0.499	0.5000	0	99.9	75	125	08/16/2023
Cadmium		0.0020		0.0456	0.0500	0	91.2	75	125	08/16/2023
Chromium		0.0050		0.196	0.2000	0	98.2	75	125	08/16/2023
Copper		0.0050		0.265	0.2500	0	105.8	75	125	08/16/2023
Iron		0.0400		1.97	2.000	0.02400	97.1	75	125	08/16/2023
Lead		0.0150		0.475	0.5000	0	95.0	75	125	08/16/2023
Molybdenum		0.0100		0.490	0.5000	0	97.9	75	125	08/16/2023
Nickel		0.0050		0.477	0.5000	0	95.3	75	125	08/16/2023
Silver		0.0070		0.0522	0.0500	0	104.4	75	125	08/16/2023
Zinc		0.0100		0.491	0.5000	0	98.2	75	125	08/16/2023

Batch 210901	SampType: MSD	Units mg/L				RPD Limit 20				
SampID: 23071810-028CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		1.99	2.000	0.01430	98.7	1.994	0.32	08/16/2023
Arsenic		0.0250		0.499	0.5000	0	99.8	0.5040	0.96	08/16/2023
Barium		0.0025		2.05	2.000	0.09890	97.6	2.050	0.00	08/16/2023
Beryllium		0.0005		0.0491	0.0500	0	98.2	0.04920	0.20	08/16/2023
Boron		0.0200		0.498	0.5000	0	99.7	0.4994	0.22	08/16/2023
Cadmium		0.0020		0.0457	0.0500	0	91.4	0.04560	0.22	08/16/2023
Chromium		0.0050		0.195	0.2000	0	97.5	0.1965	0.82	08/16/2023
Copper		0.0050		0.263	0.2500	0	105.2	0.2646	0.61	08/16/2023
Iron		0.0400		1.96	2.000	0.02400	96.6	1.966	0.49	08/16/2023
Lead		0.0150		0.472	0.5000	0	94.5	0.4748	0.49	08/16/2023
Molybdenum		0.0100		0.486	0.5000	0	97.2	0.4896	0.78	08/16/2023
Nickel		0.0050		0.476	0.5000	0	95.2	0.4766	0.08	08/16/2023
Silver		0.0070		0.0521	0.0500	0	104.2	0.05220	0.19	08/16/2023
Zinc		0.0100		0.488	0.5000	0	97.6	0.4908	0.53	08/16/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210926 SampType: MBLK Units mg/L

SampleID: MBLK-210926

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	08/17/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/17/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/17/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/17/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/17/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/17/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/17/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	08/17/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/17/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/17/2023
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	08/17/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	08/17/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/17/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	08/17/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	08/17/2023
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	08/17/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	08/17/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210926		SampType: LCS		Units mg/L						
SampID: LCS-210926										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.96	2.000	0	97.9	85	115	08/17/2023
Arsenic		0.0250		0.530	0.5000	0	106.1	85	115	08/17/2023
Barium		0.0025		2.04	2.000	0	102.0	85	115	08/17/2023
Beryllium		0.0005		0.0505	0.0500	0	101.0	85	115	08/17/2023
Boron		0.0200		0.507	0.5000	0	101.3	85	115	08/17/2023
Cadmium		0.0020		0.0502	0.0500	0	100.4	85	115	08/17/2023
Calcium		0.100		2.49	2.500	0	99.6	85	115	08/17/2023
Calcium		0.100		2.59	2.500	0	103.7	85	115	08/17/2023
Chromium		0.0050		0.200	0.2000	0	100.2	85	115	08/17/2023
Iron		0.0400		2.08	2.000	0	104.0	85	115	08/17/2023
Lead		0.0150		0.506	0.5000	0	101.2	85	115	08/17/2023
Magnesium		0.0500		2.39	2.500	0	95.6	85	115	08/17/2023
Manganese		0.0070		0.505	0.5000	0	101.0	85	115	08/17/2023
Molybdenum		0.0100		0.495	0.5000	0	99.1	85	115	08/17/2023
Potassium		0.100		2.70	2.500	0	108.1	85	115	08/17/2023
Silicon	*	0.0500		0.529	0.5000	0	105.7	85	115	08/17/2023
Sodium		0.0500		2.53	2.500	0	101.4	85	115	08/17/2023

Batch 210926		SampType: MS		Units mg/L						
SampID: 23071810-052CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	142	2.500	140.4	53.2	75	125	08/17/2023
Magnesium		0.0500		71.3	2.500	68.89	94.8	75	125	08/17/2023
Potassium		0.100		4.02	2.500	1.309	108.6	75	125	08/17/2023
Silicon	*	0.0500		10.2	0.5000	9.583	115.1	75	125	08/17/2023
Sodium		0.0500		57.6	2.500	55.43	86.4	75	125	08/17/2023

Batch 210926		SampType: MSD	Units mg/L					RPD Limit 20		
SampID: 23071810-052CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	142	2.500	140.4	70.8	141.8	0.31	08/17/2023
Magnesium		0.0500		71.4	2.500	68.89	100.7	71.26	0.21	08/17/2023
Potassium		0.100		4.02	2.500	1.309	108.4	4.024	0.14	08/17/2023
Silicon	*	0.0500		10.2	0.5000	9.583	122.0	10.16	0.34	08/17/2023
Sodium		0.0500		57.7	2.500	55.43	89.2	57.59	0.12	08/17/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211078		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-211078											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100		< 0.100	0.0350	0	0	-100	100		
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100		
Potassium		0.100		< 0.100	0.0400	0	0	-100	100		
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100		

Batch 211078		SampType: LCS		Units mg/L						
SampID: LCS-211078										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.77	2.500	0	111.0	85	115	08/21/2023
Magnesium		0.0500		2.53	2.500	0	101.2	85	115	08/21/2023
Potassium		0.100		2.77	2.500	0	110.7	85	115	08/21/2023
Sodium		0.0500		2.61	2.500	0	104.3	85	115	08/21/2023

Batch 211078	SampType: LCSD	Units mg/L								RPD Limit 20
SampID: LCSD-211078										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		2.80	2.500	0	112.2	2.774	1.10	08/21/2023
Magnesium		0.0500		2.55	2.500	0	102.1	2.529	0.91	08/21/2023
Potassium		0.100		2.79	2.500	0	111.5	2.767	0.73	08/21/2023
Sodium		0.0500		2.63	2.500	0	105.2	2.608	0.84	08/21/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211843 SampType: MBLK Units mg/L

SampleID: MBLK-211843

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0127	0	0	-100	100	09/12/2023
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	09/12/2023
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	09/12/2023
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/12/2023
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	09/12/2023
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/12/2023
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	09/12/2023
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/12/2023
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	09/12/2023
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	09/12/2023
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	09/12/2023
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	09/12/2023
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	09/12/2023
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	09/12/2023
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	09/12/2023
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	09/12/2023
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	09/12/2023
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	09/12/2023
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	09/12/2023
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	09/12/2023
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	09/12/2023
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	09/12/2023
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	09/12/2023
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	09/12/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211843		SampType: LCS		Units mg/L							
SampID: LCS-211843											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		2.01	2.000	0	100.5	85	115	09/12/2023	
Antimony		0.0500		0.523	0.5000	0	104.6	85	115	09/12/2023	
Arsenic		0.0250		0.523	0.5000	0	104.7	85	115	09/12/2023	
Barium		0.0025		2.07	2.000	0	103.5	85	115	09/12/2023	
Beryllium		0.0005		0.0503	0.0500	0	100.6	85	115	09/12/2023	
Boron		0.0200		0.499	0.5000	0	99.9	85	115	09/12/2023	
Cadmium		0.0020		0.0514	0.0500	0	102.8	85	115	09/12/2023	
Calcium		0.100		2.62	2.500	0	104.8	85	115	09/12/2023	
Chromium		0.0050		0.200	0.2000	0	100.1	85	115	09/12/2023	
Cobalt		0.0050		0.501	0.5000	0	100.2	85	115	09/12/2023	
Copper		0.0050		0.258	0.2500	0	103.3	85	115	09/12/2023	
Iron		0.0400		2.13	2.000	0	106.5	85	115	09/12/2023	
Lead		0.0150		0.497	0.5000	0	99.5	85	115	09/12/2023	
Magnesium		0.0500		2.37	2.500	0	94.9	85	115	09/12/2023	
Manganese		0.0070		0.500	0.5000	0	100.0	85	115	09/12/2023	
Molybdenum		0.0100		0.492	0.5000	0	98.3	85	115	09/12/2023	
Nickel		0.0050		0.503	0.5000	0	100.5	85	115	09/12/2023	
Potassium		0.100		2.66	2.500	0	106.4	85	115	09/12/2023	
Selenium		0.0400		0.503	0.5000	0	100.5	85	115	09/12/2023	
Silver		0.0070		0.0522	0.0500	0	104.4	85	115	09/12/2023	
Sodium		0.0500		2.58	2.500	0	103.4	85	115	09/12/2023	
Thallium		0.0500		0.249	0.2500	0	99.6	85	115	09/12/2023	
Vanadium		0.0100		0.509	0.5000	0	101.8	85	115	09/12/2023	
Zinc		0.0100		0.502	0.5000	0	100.4	85	115	09/12/2023	

Batch 211883		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-211883											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/13/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	09/13/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	09/13/2023	
Silicon	*	0.0500	JS	0.037	0.0122	0	300.0	-100	100	09/13/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	09/13/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211883		SampType: LCS		Units mg/L						
SampID: LCS-211883										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.68	2.500	0	107.2	85	115	09/13/2023
Magnesium		0.0500		2.45	2.500	0	98.1	85	115	09/13/2023
Potassium		0.100		2.57	2.500	0	102.9	85	115	09/13/2023
Silicon	*	0.0500	B	0.512	0.5000	0	102.4	85	115	09/13/2023
Sodium		0.0500		2.53	2.500	0	101.3	85	115	09/13/2023

Batch 212184		SampType: MBLK		Units mg/L							
SampID: MBLK-212184											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/26/2023	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/26/2023	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	09/20/2023	
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	09/20/2023	
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	09/25/2023	
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	09/26/2023	
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	09/26/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	09/20/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	09/26/2023	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	09/26/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	09/26/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	09/20/2023	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	09/26/2023	
Silicon	*	0.0500		< 0.0500	0.0122	0	0	-100	100	09/20/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	09/20/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	09/26/2023	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	09/26/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 212184		SampType: LCS		Units mg/L							Date Analyzed	
SampID: LCS-212184												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Calcium		0.100		2.59	2.500	0	103.5	85	115			
Calcium		0.100		2.53	2.500	0	101.1	85	115			
Calcium		0.100		2.54	2.500	0	101.5	85	115			
Lead		0.0150		0.498	0.5000	0	99.6	85	115			
Lead		0.0150		0.495	0.5000	0	99.0	85	115			
Lead		0.0150		0.515	0.5000	0	103.0	85	115			
Lead		0.0150		0.492	0.5000	0	98.5	85	115			
Magnesium		0.0500		2.40	2.500	0	96.1	85	115			
Magnesium		0.0500		2.48	2.500	0	99.3	85	115			
Magnesium		0.0500		2.38	2.500	0	95.3	85	115			
Potassium		0.100		2.45	2.500	0	98.0	85	115			
Potassium		0.100		2.68	2.500	0	107.2	85	115			
Potassium		0.100		2.56	2.500	0	102.3	85	115			
Silicon	*	0.0500		0.527	0.5000	0	105.4	85	115			
Sodium		0.0500		2.52	2.500	0	100.9	85	115			
Sodium		0.0500		2.37	2.500	0	94.7	85	115			
Sodium		0.0500		2.50	2.500	0	100.2	85	115			



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210784		SampType: MBLK		Units mg/L							Date
SampID: MBLK-210784											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/13/2023	
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	08/30/2023	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/13/2023	
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	08/30/2023	
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/13/2023	
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	08/30/2023	
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/13/2023	
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	08/30/2023	
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/13/2023	
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023	
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/13/2023	
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/30/2023	
Cobalt		0.0010		< 0.0010	0.0003	0	0	-100	100	08/30/2023	
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/11/2023	
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/13/2023	
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	08/30/2023	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/13/2023	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023	
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/13/2023	
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/30/2023	
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/13/2023	
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/30/2023	
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	09/13/2023	
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023	
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023	
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	09/13/2023	
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/30/2023	
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2023	
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/30/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210784		SampType: LCS		Units mg/L							
SampID: LCS-210784											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		1.89	2.000	0	94.6	80	120	09/13/2023	
Aluminum		0.0250		1.70	2.000	0	85.0	80	120	08/30/2023	
Antimony		0.0010		0.469	0.5000	0	93.9	80	120	08/30/2023	
Arsenic		0.0010		0.517	0.5000	0	103.5	80	120	09/13/2023	
Arsenic		0.0010		0.505	0.5000	0	101.0	80	120	08/30/2023	
Barium		0.0010		1.96	2.000	0	97.9	80	120	08/30/2023	
Barium		0.0010		2.11	2.000	0	105.4	80	120	09/13/2023	
Beryllium		0.0010		0.0436	0.0500	0	87.3	80	120	08/30/2023	
Beryllium		0.0010		0.0481	0.0500	0	96.1	80	120	09/13/2023	
Boron		0.0250		0.455	0.5000	0	91.0	80	120	08/30/2023	
Cadmium		0.0010		0.0492	0.0500	0	98.3	80	120	09/13/2023	
Cadmium		0.0010		0.0467	0.0500	0	93.3	80	120	08/30/2023	
Chromium		0.0015		0.205	0.2000	0	102.6	80	120	09/13/2023	
Chromium		0.0015		0.193	0.2000	0	96.5	80	120	08/30/2023	
Cobalt		0.0010		0.493	0.5000	0	98.6	80	120	08/30/2023	
Iron		0.0250		1.93	2.000	0	96.5	80	120	08/30/2023	
Iron		0.0250		2.12	2.000	0	105.8	80	120	09/13/2023	
Lead		0.0010		0.517	0.5000	0	103.4	80	120	09/13/2023	
Lead		0.0010		0.487	0.5000	0	97.4	80	120	08/30/2023	
Manganese		0.0020		0.533	0.5000	0	106.6	80	120	09/13/2023	
Manganese		0.0020		0.480	0.5000	0	96.0	80	120	08/30/2023	
Molybdenum	*	0.0015		0.477	0.5000	0	95.4	80	120	09/13/2023	
Molybdenum	*	0.0015		0.480	0.5000	0	96.1	80	120	08/30/2023	
Nickel		0.0010		0.519	0.5000	0	103.8	80	120	09/13/2023	
Nickel		0.0010		0.494	0.5000	0	98.7	80	120	08/30/2023	
Selenium		0.0010		0.453	0.5000	0	90.6	80	120	08/30/2023	
Silver		0.0010		0.0544	0.0500	0	108.8	80	120	08/30/2023	
Silver		0.0010		0.0463	0.0500	0	92.7	80	120	09/13/2023	
Thallium		0.0020		0.232	0.2500	0	93.0	80	120	08/30/2023	
Vanadium		0.0050		0.472	0.5000	0	94.4	80	120	08/30/2023	
Zinc		0.0150		0.441	0.5000	0	88.3	80	120	08/30/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210784		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-002DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		1.69	2.000	0	84.7	75	125	08/30/2023	
Antimony		0.0010		0.469	0.5000	0	93.9	75	125	08/30/2023	
Arsenic		0.0010		0.518	0.5000	0	103.5	75	125	08/30/2023	
Barium		0.0010		1.97	2.000	0.05111	96.2	75	125	08/30/2023	
Beryllium		0.0010		0.0473	0.0500	0	94.6	75	125	08/30/2023	
Boron		0.0250		0.495	0.5000	0	99.1	75	125	08/30/2023	
Cadmium		0.0010		0.0451	0.0500	0	90.2	75	125	08/30/2023	
Chromium		0.0015		0.194	0.2000	0	96.8	75	125	08/30/2023	
Cobalt		0.0010		0.489	0.5000	0	97.9	75	125	08/30/2023	
Copper		0.0010		0.248	0.2500	0.002143	98.2	75	125	08/30/2023	
Iron		0.0250		1.93	2.000	0.01553	95.6	75	125	08/30/2023	
Lead		0.0010		0.481	0.5000	0	96.2	75	125	08/30/2023	
Manganese		0.0020		0.480	0.5000	0.003507	95.3	75	125	08/30/2023	
Molybdenum	*	0.0015		0.487	0.5000	0	97.3	75	125	08/30/2023	
Nickel		0.0010		0.484	0.5000	0.001108	96.6	75	125	08/30/2023	
Selenium		0.0010		0.465	0.5000	0.001678	92.8	75	125	08/30/2023	
Silver		0.0010		0.0519	0.0500	0	103.9	75	125	08/30/2023	
Thallium		0.0020		0.237	0.2500	0	94.6	75	125	08/30/2023	
Vanadium		0.0050		0.476	0.5000	0	95.2	75	125	08/30/2023	
Zinc		0.0150		0.447	0.5000	0	89.4	75	125	08/30/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	210784	SampType:	MSD	Units				mg/L	RPD Limit			20
SampleID: 23071810-002DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Aluminum		0.0250		1.67	2.000	0	83.5	1.695	1.46	08/30/2023		
Antimony		0.0010		0.461	0.5000	0	92.2	0.4693	1.75	08/30/2023		
Arsenic		0.0010		0.502	0.5000	0	100.4	0.5176	3.08	08/30/2023		
Barium		0.0010		1.92	2.000	0.05111	93.2	1.974	3.03	08/30/2023		
Beryllium		0.0010		0.0455	0.0500	0	91.0	0.04729	3.83	08/30/2023		
Boron		0.0250		0.495	0.5000	0	98.9	0.4954	0.15	08/30/2023		
Cadmium		0.0010		0.0447	0.0500	0	89.5	0.04512	0.87	08/30/2023		
Chromium		0.0015		0.188	0.2000	0	94.1	0.1936	2.79	08/30/2023		
Cobalt		0.0010		0.477	0.5000	0	95.5	0.4894	2.50	08/30/2023		
Copper		0.0010		0.242	0.2500	0.002143	95.8	0.2475	2.36	08/30/2023		
Iron		0.0250		1.91	2.000	0.01553	94.7	1.927	0.88	08/30/2023		
Lead		0.0010		0.477	0.5000	0	95.5	0.4812	0.79	08/30/2023		
Manganese		0.0020		0.474	0.5000	0.003507	94.2	0.4801	1.19	08/30/2023		
Molybdenum	*	0.0015		0.471	0.5000	0	94.1	0.4866	3.31	08/30/2023		
Nickel		0.0010		0.473	0.5000	0.001108	94.4	0.4842	2.32	08/30/2023		
Selenium		0.0010		0.446	0.5000	0.001678	88.9	0.4655	4.24	08/30/2023		
Silver		0.0010		0.0504	0.0500	0	100.8	0.05195	3.05	08/30/2023		
Thallium		0.0020		0.237	0.2500	0	94.7	0.2366	0.01	08/30/2023		
Vanadium		0.0050		0.471	0.5000	0	94.2	0.4760	1.10	08/30/2023		
Zinc		0.0150		0.430	0.5000	0	86.0	0.4471	3.92	08/30/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210814		SampType: MBLK		Units mg/L							Date Analyzed
SampleID: MBLK-210814											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	08/30/2023	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023	
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	08/30/2023	
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	08/30/2023	
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	08/30/2023	
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023	
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/11/2023	
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023	
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/11/2023	
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	08/30/2023	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023	
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/30/2023	
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/30/2023	
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023	
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023	
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/30/2023	
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2023	
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/30/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210814		SampType: LCS		Units mg/L						
SampID: LCS-210814										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.68	2.000	0	84.2	80	120	08/30/2023
Antimony		0.0010		0.454	0.5000	0	90.8	80	120	08/30/2023
Arsenic		0.0010		0.504	0.5000	0	100.9	80	120	08/30/2023
Barium		0.0010		1.89	2.000	0	94.6	80	120	08/30/2023
Beryllium		0.0010		0.0469	0.0500	0	93.8	80	120	08/30/2023
Boron		0.0250		0.474	0.5000	0	94.9	80	120	08/30/2023
Cadmium		0.0010		0.0458	0.0500	0	91.5	80	120	08/30/2023
Chromium		0.0015		0.195	0.2000	0	97.3	80	120	08/30/2023
Cobalt		0.0010		0.493	0.5000	0	98.6	80	120	08/30/2023
Copper		0.0010		0.257	0.2500	0	102.7	80	120	08/30/2023
Iron		0.0250		1.96	2.000	0	97.8	80	120	08/30/2023
Lead		0.0010		0.468	0.5000	0	93.5	80	120	08/30/2023
Manganese		0.0020		0.489	0.5000	0	97.8	80	120	08/30/2023
Molybdenum	*	0.0015		0.467	0.5000	0	93.3	80	120	08/30/2023
Nickel		0.0010		0.495	0.5000	0	99.0	80	120	08/30/2023
Selenium		0.0010		0.469	0.5000	0	93.8	80	120	08/30/2023
Silver		0.0010		0.0530	0.0500	0	106.1	80	120	08/30/2023
Thallium		0.0020		0.233	0.2500	0	93.2	80	120	08/30/2023
Vanadium		0.0050		0.469	0.5000	0	93.8	80	120	08/30/2023
Zinc		0.0150		0.456	0.5000	0	91.1	80	120	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210814		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-004DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		3.10	4.000	0.01385	77.2	75	125		
Antimony		0.0010		0.949	1.000	0	94.9	75	125		
Arsenic		0.0010		0.906	1.000	0.002154	90.4	75	125		
Barium		0.0010		3.70	4.000	0.09539	90.2	75	125		
Beryllium		0.0010		0.0866	0.1000	0	86.6	75	125		
Boron		0.0250		0.913	1.000	0.03014	88.3	75	125		
Cadmium		0.0010		0.0896	0.1000	0	89.6	75	125		
Chromium		0.0015		0.349	0.4000	0	87.2	75	125		
Cobalt		0.0010		0.994	1.000	0.0005190	99.4	75	125		
Copper		0.0010		0.437	0.5000	0.001017	87.3	75	125		
Iron		0.0250		3.94	4.000	0.4055	88.4	75	125		
Lead		0.0010		0.934	1.000	0	93.4	75	125		
Manganese		0.0200	S	1.93	1.000	1.492	44.3	75	125		
Molybdenum	*	0.0015		0.920	1.000	0.0008750	92.0	75	125		
Nickel		0.0010		0.867	1.000	0.0007445	86.6	75	125		
Selenium		0.0010		0.791	1.000	0	79.1	75	125		
Silver		0.0010		0.0985	0.1000	0	98.5	75	125		
Thallium		0.0020		0.437	0.5000	0	87.5	75	125		
Vanadium		0.0050		0.861	1.000	0	86.1	75	125		
Zinc		0.0150		0.776	1.000	0	77.6	75	125		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210814		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 23071810-004DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		3.13	4.000	0.01385	77.9	3.102	0.87	08/31/2023
Antimony		0.0010		0.982	1.000	0	98.2	0.9493	3.37	08/31/2023
Arsenic		0.0010		0.950	1.000	0.002154	94.8	0.9061	4.71	08/31/2023
Barium		0.0010		3.83	4.000	0.09539	93.2	3.705	3.20	08/31/2023
Beryllium		0.0010		0.0893	0.1000	0	89.3	0.08655	3.15	08/31/2023
Boron		0.0250		0.927	1.000	0.03014	89.6	0.9129	1.50	08/31/2023
Cadmium		0.0010		0.0930	0.1000	0	93.0	0.08958	3.75	08/31/2023
Chromium		0.0015		0.356	0.4000	0	88.9	0.3490	1.91	08/31/2023
Cobalt		0.0010		1.03	1.000	0.0005190	102.8	0.9940	3.45	08/31/2023
Copper		0.0010		0.450	0.5000	0.001017	89.9	0.4373	2.93	08/31/2023
Iron		0.0250		3.99	4.000	0.4055	89.5	3.941	1.10	08/31/2023
Lead		0.0010		0.931	1.000	0	93.1	0.9340	0.35	08/31/2023
Manganese		0.0200	S	1.97	1.000	1.492	47.5	1.935	1.66	09/13/2023
Molybdenum	*	0.0015		0.957	1.000	0.0008750	95.6	0.9205	3.89	08/31/2023
Nickel		0.0010		0.897	1.000	0.0007445	89.6	0.8669	3.36	08/31/2023
Selenium		0.0010		0.825	1.000	0	82.5	0.7913	4.13	08/31/2023
Silver		0.0010		0.102	0.1000	0	102.2	0.09849	3.66	08/31/2023
Thallium		0.0020		0.438	0.5000	0	87.6	0.4373	0.17	08/31/2023
Vanadium		0.0050		0.882	1.000	0	88.2	0.8614	2.30	08/31/2023
Zinc		0.0150		0.801	1.000	0	80.1	0.7757	3.15	08/31/2023

Batch 210814		SampType: MS		Units mg/L						
SampID: 23071810-016CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.506	0.5000	0	101.2	75	125	08/31/2023
Arsenic		0.0010		0.491	0.5000	0	98.2	75	125	08/31/2023
Barium		0.0010		2.23	2.000	0.06386	108.2	75	125	09/10/2023
Boron		0.0250		0.479	0.5000	0.009340	93.9	75	125	08/31/2023
Cadmium		0.0010		0.0470	0.0500	0	94.0	75	125	08/31/2023
Chromium		0.0015		0.189	0.2000	0	94.3	75	125	08/31/2023
Cobalt		0.0010		0.461	0.5000	0	92.1	75	125	08/31/2023
Lead		0.0010		0.475	0.5000	0	95.0	75	125	08/31/2023
Manganese		0.0020		0.462	0.5000	0.001600	92.1	75	125	08/31/2023
Zinc		0.0150		0.470	0.5000	0	94.1	75	125	08/31/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	210814	SampType:	MSD	Units				mg/L	RPD Limit			20
SampID: 23071810-016CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		0.0010		0.472	0.5000	0	94.3	0.5058	7.00	08/31/2023		
Arsenic		0.0010		0.454	0.5000	0	90.8	0.4908	7.77	08/31/2023		
Barium		0.0010		2.26	2.000	0.06386	109.9	2.228	1.54	09/10/2023		
Boron		0.0250		0.453	0.5000	0.009340	88.7	0.4791	5.67	08/31/2023		
Cadmium		0.0010		0.0442	0.0500	0	88.4	0.04699	6.10	08/31/2023		
Chromium		0.0015		0.178	0.2000	0	88.8	0.1885	6.03	08/31/2023		
Cobalt		0.0010		0.440	0.5000	0	88.0	0.4607	4.58	08/31/2023		
Lead		0.0010		0.462	0.5000	0	92.4	0.4751	2.80	08/31/2023		
Manganese		0.0020		0.433	0.5000	0.001600	86.3	0.4620	6.42	08/31/2023		
Zinc		0.0150		0.434	0.5000	0	86.7	0.4704	8.14	08/31/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210815		SampType: MBLK		Units mg/L							Date
SampID: MBLK-210815											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/13/2023	
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	08/30/2023	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/13/2023	
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/13/2023	
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	08/30/2023	
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/13/2023	
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	08/30/2023	
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	08/30/2023	
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/13/2023	
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023	
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/13/2023	
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/30/2023	
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023	
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/13/2023	
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	08/30/2023	
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/13/2023	
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	08/30/2023	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/13/2023	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023	
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/13/2023	
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/30/2023	
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/13/2023	
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/30/2023	
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	09/13/2023	
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023	
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023	
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023	
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	09/13/2023	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/30/2023	
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2023	
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/30/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210815		SampType: LCS		Units mg/L						
SampID: LCS-210815										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Aluminum		0.0250		1.66	2.000	0	83.1	80	120	08/30/2023
Aluminum		0.0250		1.81	2.000	0	90.5	80	120	09/13/2023
Antimony		0.0010		0.447	0.5000	0	89.4	80	120	08/30/2023
Arsenic		0.0010		0.479	0.5000	0	95.7	80	120	08/30/2023
Arsenic		0.0010		0.523	0.5000	0	104.7	80	120	09/13/2023
Barium		0.0010		1.89	2.000	0	94.5	80	120	08/30/2023
Barium		0.0010		2.07	2.000	0	103.3	80	120	09/13/2023
Beryllium		0.0010		0.0452	0.0500	0	90.5	80	120	09/13/2023
Beryllium		0.0010		0.0421	0.0500	0	84.2	80	120	08/30/2023
Boron		0.0250		0.446	0.5000	0	89.2	80	120	08/30/2023
Cadmium		0.0010		0.0439	0.0500	0	87.8	80	120	08/30/2023
Cadmium		0.0010		0.0472	0.0500	0	94.4	80	120	09/13/2023
Chromium		0.0015		0.205	0.2000	0	102.4	80	120	09/13/2023
Chromium		0.0015		0.186	0.2000	0	93.1	80	120	08/30/2023
Cobalt		0.0010		0.478	0.5000	0	95.6	80	120	08/30/2023
Copper		0.0010		0.244	0.2500	0	97.8	80	120	08/30/2023
Copper		0.0010		0.259	0.2500	0	103.6	80	120	09/13/2023
Iron		0.0250		1.88	2.000	0	94.2	80	120	08/30/2023
Iron		0.0250		2.08	2.000	0	103.9	80	120	09/13/2023
Lead		0.0010		0.510	0.5000	0	102.0	80	120	09/13/2023
Lead		0.0010		0.467	0.5000	0	93.4	80	120	08/30/2023
Manganese		0.0020		0.469	0.5000	0	93.7	80	120	08/30/2023
Manganese		0.0020		0.522	0.5000	0	104.3	80	120	09/13/2023
Molybdenum	*	0.0015		0.476	0.5000	0	95.3	80	120	09/13/2023
Molybdenum	*	0.0015		0.451	0.5000	0	90.2	80	120	08/30/2023
Nickel		0.0010		0.476	0.5000	0	95.1	80	120	08/30/2023
Nickel		0.0010		0.520	0.5000	0	103.9	80	120	09/13/2023
Selenium		0.0010		0.433	0.5000	0	86.7	80	120	08/30/2023
Silver		0.0010		0.0452	0.0500	0	90.4	80	120	09/13/2023
Silver		0.0010		0.0512	0.0500	0	102.3	80	120	08/30/2023
Thallium		0.0020		0.228	0.2500	0	91.4	80	120	08/30/2023
Vanadium		0.0050		0.461	0.5000	0	92.1	80	120	08/30/2023
Zinc		0.0150		0.425	0.5000	0	85.0	80	120	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210815 SampType: MS

Units mg/L

SampleID: 23071810-034DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.68	2.000	0	84.1	75	125	08/30/2023
Antimony		0.0010		0.456	0.5000	0.001644	90.9	75	125	08/30/2023
Arsenic		0.0010		0.483	0.5000	0	96.6	75	125	08/30/2023
Barium		0.0010		1.92	2.000	0.07190	92.4	75	125	08/30/2023
Beryllium		0.0010		0.0467	0.0500	0	93.4	75	125	08/30/2023
Boron		0.0250		0.481	0.5000	0	96.2	75	125	08/30/2023
Cadmium		0.0010		0.0438	0.0500	0	87.6	75	125	08/30/2023
Chromium		0.0015		0.186	0.2000	0	93.0	75	125	08/30/2023
Cobalt		0.0010		0.469	0.5000	0	93.8	75	125	08/30/2023
Copper		0.0010		0.232	0.2500	0.004065	91.2	75	125	08/30/2023
Iron		0.0250		1.88	2.000	0	93.8	75	125	08/30/2023
Lead		0.0010		0.472	0.5000	0	94.4	75	125	08/30/2023
Manganese		0.0020		0.499	0.5000	0.03745	92.4	75	125	08/30/2023
Molybdenum	*	0.0015		0.460	0.5000	0	92.0	75	125	08/30/2023
Nickel		0.0010		0.460	0.5000	0	92.0	75	125	08/30/2023
Selenium		0.0010		0.435	0.5000	0	86.9	75	125	08/30/2023
Silver		0.0010		0.0500	0.0500	0	100.0	75	125	08/30/2023
Thallium		0.0020		0.235	0.2500	0	94.2	75	125	08/30/2023
Vanadium		0.0050		0.462	0.5000	0	92.3	75	125	08/30/2023
Zinc		0.0150		0.414	0.5000	0	82.9	75	125	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	210815	SampType:	MSD	Units				mg/L	RPD Limit			20
SampID: 23071810-034DMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum			0.0250		1.67	2.000	0	83.6	1.683	0.68	08/30/2023	
Antimony			0.0010		0.458	0.5000	0.001644	91.2	0.4560	0.41	08/30/2023	
Arsenic			0.0010		0.490	0.5000	0	97.9	0.4830	1.33	08/30/2023	
Barium			0.0010		1.93	2.000	0.07190	92.7	1.920	0.37	08/30/2023	
Beryllium			0.0010		0.0463	0.0500	0	92.7	0.04672	0.81	08/30/2023	
Boron			0.0250		0.484	0.5000	0	96.7	0.4809	0.55	08/30/2023	
Cadmium			0.0010		0.0447	0.0500	0	89.3	0.04380	1.94	08/30/2023	
Chromium			0.0015		0.187	0.2000	0	93.5	0.1860	0.59	08/30/2023	
Cobalt			0.0010		0.470	0.5000	0	94.0	0.4691	0.17	08/30/2023	
Copper			0.0010		0.238	0.2500	0.004065	93.6	0.2320	2.55	08/30/2023	
Iron			0.0250		1.88	2.000	0	93.9	1.876	0.13	08/30/2023	
Lead			0.0010		0.473	0.5000	0	94.6	0.4720	0.17	08/30/2023	
Manganese			0.0020		0.498	0.5000	0.03745	92.1	0.4993	0.28	08/30/2023	
Molybdenum	*		0.0015		0.467	0.5000	0	93.4	0.4598	1.57	08/30/2023	
Nickel			0.0010		0.468	0.5000	0	93.7	0.4600	1.80	08/30/2023	
Selenium			0.0010		0.441	0.5000	0	88.3	0.4346	1.53	08/30/2023	
Silver			0.0010		0.0504	0.0500	0	100.9	0.04999	0.90	08/30/2023	
Thallium			0.0020		0.233	0.2500	0	93.0	0.2354	1.21	08/30/2023	
Vanadium			0.0050		0.467	0.5000	0	93.3	0.4617	1.09	08/30/2023	
Zinc			0.0150		0.431	0.5000	0	86.1	0.4144	3.82	08/30/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210815		SampType: MS		Units mg/L							Date Analyzed	
SampID: 23071810-036DMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Aluminum		0.0250		1.60	2.000	0	79.9	75	125			
Antimony		0.0010		0.463	0.5000	0	92.5	75	125			
Arsenic		0.0010		0.503	0.5000	0.001345	100.4	75	125			
Barium		0.0010		1.90	2.000	0.04878	92.8	75	125			
Beryllium		0.0010		0.0438	0.0500	0	87.6	75	125			
Boron		0.0250		1.45	0.5000	1.025	85.3	75	125			
Cadmium		0.0010		0.0445	0.0500	0	89.0	75	125			
Chromium		0.0015		0.181	0.2000	0	90.7	75	125			
Cobalt		0.0010		0.499	0.5000	0.03509	92.8	75	125			
Copper		0.0010		0.228	0.2500	0.001314	90.8	75	125			
Iron		0.0250		7.36	2.000	5.848	75.7	75	125			
Lead		0.0010		0.483	0.5000	0	96.7	75	125			
Manganese		0.0020		0.976	0.5000	0.5611	83.0	75	125			
Molybdenum	*	0.0015		0.480	0.5000	0.001421	95.7	75	125			
Nickel		0.0010		0.456	0.5000	0.001943	90.8	75	125			
Selenium		0.0010		0.449	0.5000	0	89.8	75	125			
Silver		0.0010		0.0497	0.0500	0	99.4	75	125			
Thallium		0.0020		0.238	0.2500	0	95.3	75	125			
Vanadium		0.0050		0.459	0.5000	0	91.9	75	125			
Zinc		0.0150		0.413	0.5000	0	82.6	75	125			



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	210815	SampType:	MSD	Units				mg/L	RPD Limit			20
SampID: 23071810-036DMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum			0.0250		1.60	2.000	0	80.1	1.598	0.28	08/30/2023	
Antimony			0.0010		0.452	0.5000	0	90.4	0.4627	2.38	08/30/2023	
Arsenic			0.0010		0.510	0.5000	0.001345	101.8	0.5032	1.37	08/30/2023	
Barium			0.0010		1.90	2.000	0.04878	92.3	1.905	0.50	08/30/2023	
Beryllium			0.0010		0.0436	0.0500	0	87.1	0.04381	0.58	08/30/2023	
Boron			0.0250		1.44	0.5000	1.025	83.9	1.451	0.50	08/30/2023	
Cadmium			0.0010		0.0433	0.0500	0	86.6	0.04451	2.80	08/30/2023	
Chromium			0.0015		0.181	0.2000	0	90.3	0.1814	0.47	08/30/2023	
Cobalt			0.0010		0.502	0.5000	0.03509	93.5	0.4990	0.67	08/30/2023	
Copper			0.0010		0.229	0.2500	0.001314	91.2	0.2283	0.45	08/30/2023	
Iron			0.0250		7.46	2.000	5.848	80.4	7.362	1.27	08/30/2023	
Lead			0.0010		0.470	0.5000	0	94.1	0.4834	2.72	08/30/2023	
Manganese			0.0020		0.981	0.5000	0.5611	84.0	0.9762	0.47	08/30/2023	
Molybdenum	*		0.0015		0.479	0.5000	0.001421	95.6	0.4797	0.05	08/30/2023	
Nickel			0.0010		0.460	0.5000	0.001943	91.5	0.4560	0.77	08/30/2023	
Selenium			0.0010		0.451	0.5000	0	90.3	0.4492	0.49	08/30/2023	
Silver			0.0010		0.0485	0.0500	0	97.1	0.04968	2.30	08/30/2023	
Thallium			0.0020		0.236	0.2500	0	94.3	0.2382	0.98	08/30/2023	
Vanadium			0.0050		0.460	0.5000	0	92.0	0.4595	0.11	08/30/2023	
Zinc			0.0150		0.414	0.5000	0	82.8	0.4131	0.19	08/30/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210825		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-210825											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/10/2023	
Aluminum		0.0250	S	0.0264	0.0125	0	211.5	-100	100	08/31/2023	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/31/2023	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/31/2023	
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	08/31/2023	
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	08/31/2023	
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/31/2023	
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/31/2023	
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/31/2023	
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	08/31/2023	
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	08/31/2023	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/31/2023	
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/31/2023	
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/31/2023	
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/31/2023	
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/31/2023	
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/31/2023	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/31/2023	
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/31/2023	
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/31/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210825		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210825											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250	B	1.90	2.000	0	95.0	80	120	08/31/2023	
Antimony		0.0010		0.484	0.5000	0	96.8	80	120	08/31/2023	
Arsenic		0.0010		0.487	0.5000	0	97.3	80	120	08/31/2023	
Barium		0.0010		2.12	2.000	0	105.9	80	120	09/10/2023	
Beryllium		0.0010		0.0461	0.0500	0	92.3	80	120	08/31/2023	
Boron		0.0250		0.486	0.5000	0	97.3	80	120	08/31/2023	
Cadmium		0.0010		0.0472	0.0500	0	94.3	80	120	08/31/2023	
Chromium		0.0015		0.193	0.2000	0	96.4	80	120	08/31/2023	
Cobalt		0.0010		0.480	0.5000	0	96.1	80	120	08/31/2023	
Copper		0.0010		0.240	0.2500	0	95.9	80	120	08/31/2023	
Iron		0.0250		1.90	2.000	0	95.1	80	120	08/31/2023	
Lead		0.0010		0.508	0.5000	0	101.7	80	120	09/10/2023	
Manganese		0.0020		0.475	0.5000	0	95.0	80	120	08/31/2023	
Molybdenum	*	0.0015		0.452	0.5000	0	90.4	80	120	08/31/2023	
Nickel		0.0010		0.479	0.5000	0	95.8	80	120	08/31/2023	
Selenium		0.0010		0.444	0.5000	0	88.8	80	120	08/31/2023	
Silver		0.0010		0.0525	0.0500	0	104.9	80	120	08/31/2023	
Thallium		0.0020		0.231	0.2500	0	92.5	80	120	08/31/2023	
Vanadium		0.0050		0.481	0.5000	0	96.3	80	120	08/31/2023	
Zinc		0.0150		0.509	0.5000	0	101.8	80	120	09/10/2023	

Batch 210825		SampType: MS		Units mg/L							
SampID: 23071810-082DMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		2.03	2.000	0.02870	100.2	75	125	09/11/2023	
Arsenic		0.0010		0.519	0.5000	0.002896	103.3	75	125	09/11/2023	
Boron		0.0250		0.601	0.5000	0.1410	91.9	75	125	09/11/2023	
Copper		0.0010		0.232	0.2500	0.001679	91.9	75	125	09/11/2023	
Iron		0.0250		2.87	2.000	0.8198	102.4	75	125	09/11/2023	
Lead		0.0010		0.544	0.5000	0	108.9	75	125	09/11/2023	
Manganese		0.0020		4.40	0.5000	3.878	105.4	75	125	09/11/2023	
Nickel		0.0010		0.477	0.5000	0.003421	94.7	75	125	09/11/2023	
Silver		0.0010		0.0541	0.0500	0	108.1	75	125	09/11/2023	
Vanadium		0.0050		0.472	0.5000	0	94.5	75	125	09/01/2023	
Zinc		0.0150		0.501	0.5000	0	100.1	75	125	09/11/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210825		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 23071810-082DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		2.01	2.000	0.02870	99.2	2.032	0.96	09/11/2023
Arsenic		0.0010		0.507	0.5000	0.002896	100.9	0.5195	2.40	09/11/2023
Boron		0.0250		0.598	0.5000	0.1410	91.5	0.6006	0.36	09/11/2023
Copper		0.0010		0.228	0.2500	0.001679	90.6	0.2316	1.42	09/11/2023
Iron		0.0250		2.84	2.000	0.8198	100.8	2.869	1.18	09/11/2023
Lead		0.0010		0.538	0.5000	0	107.5	0.5443	1.21	09/11/2023
Manganese		0.0020		4.40	0.5000	3.878	104.7	4.405	0.09	09/11/2023
Nickel		0.0010		0.474	0.5000	0.003421	94.2	0.4770	0.59	09/11/2023
Silver		0.0010		0.0527	0.0500	0	105.4	0.05405	2.51	09/11/2023
Vanadium		0.0050		0.454	0.5000	0	90.7	0.4724	4.07	09/01/2023
Zinc		0.0150		0.493	0.5000	0	98.7	0.5006	1.48	09/11/2023

Batch 210902		SampType: MBLK		Units mg/L						
SampID: MBLK-210902										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/14/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/14/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/14/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/14/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/14/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/14/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/14/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	09/01/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/14/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/14/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/14/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/14/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/14/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	09/14/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/01/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	09/14/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/01/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	09/01/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	09/14/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210902		SampType: LCS		Units mg/L							
SampID: LCS-210902											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		1.94	2.000	0	96.9	80	120	09/14/2023	
Antimony		0.0010		0.462	0.5000	0	92.3	80	120	09/01/2023	
Arsenic		0.0010		0.543	0.5000	0	108.7	80	120	09/14/2023	
Arsenic		0.0010		0.528	0.5000	0	105.7	80	120	09/14/2023	
Barium		0.0010		2.27	2.000	0	113.3	80	120	09/14/2023	
Beryllium		0.0010		0.0497	0.0500	0	99.5	80	120	09/14/2023	
Boron		0.0250		0.475	0.5000	0	95.0	80	120	09/14/2023	
Cadmium		0.0010		0.0514	0.0500	0	102.7	80	120	09/14/2023	
Chromium		0.0015		0.209	0.2000	0	104.5	80	120	09/14/2023	
Cobalt		0.0010		0.486	0.5000	0	97.2	80	120	09/01/2023	
Copper		0.0010		0.256	0.2500	0	102.5	80	120	09/14/2023	
Iron		0.0250		2.08	2.000	0	103.8	80	120	09/14/2023	
Lead		0.0010		0.535	0.5000	0	106.9	80	120	09/14/2023	
Manganese		0.0020		0.539	0.5000	0	107.7	80	120	09/14/2023	
Molybdenum	*	0.0015		0.499	0.5000	0	99.7	80	120	09/14/2023	
Nickel		0.0010		0.510	0.5000	0	102.0	80	120	09/14/2023	
Selenium		0.0010		0.447	0.5000	0	89.4	80	120	09/01/2023	
Silver		0.0010		0.0482	0.0500	0	96.3	80	120	09/14/2023	
Thallium		0.0020		0.231	0.2500	0	92.3	80	120	09/01/2023	
Vanadium		0.0050		0.462	0.5000	0	92.4	80	120	09/01/2023	
Zinc		0.0150		0.491	0.5000	0	98.3	80	120	09/14/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210902		SampType: MS		Units mg/L							Date Analyzed	
SampID: 23071810-028DMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Aluminum		0.0250		1.92	2.000	0.01577	95.2	75	125			
Antimony		0.0010		0.462	0.5000	0	92.4	75	125			
Arsenic		0.0010		0.544	0.5000	0	108.8	75	125			
Barium		0.0010		2.28	2.000	0.1003	108.9	75	125			
Beryllium		0.0010		0.0492	0.0500	0	98.4	75	125			
Boron		0.0250		0.503	0.5000	0	100.6	75	125			
Cadmium		0.0010		0.0496	0.0500	0	99.3	75	125			
Chromium		0.0015		0.209	0.2000	0.0009832	103.9	75	125			
Cobalt		0.0010		0.472	0.5000	0	94.3	75	125			
Copper		0.0010		0.256	0.2500	0.001184	101.9	75	125			
Iron		0.0250		2.08	2.000	0.02414	102.7	75	125			
Lead		0.0010		0.531	0.5000	0	106.3	75	125			
Manganese		0.0020		0.544	0.5000	0.004646	107.8	75	125			
Molybdenum	*	0.0015		0.500	0.5000	0.0007224	99.9	75	125			
Nickel		0.0010		0.509	0.5000	0.0004698	101.7	75	125			
Selenium		0.0010		0.456	0.5000	0.002674	90.7	75	125			
Silver		0.0010		0.0467	0.0500	0	93.4	75	125			
Thallium		0.0020		0.226	0.2500	0	90.4	75	125			
Vanadium		0.0050		0.454	0.5000	0	90.8	75	125			
Zinc		0.0150		0.487	0.5000	0	97.4	75	125			



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	210902	SampType:	MSD	Units mg/L				RPD Limit 20			
SampID: 23071810-028DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum			0.0250		1.85	2.000	0.01577	91.8	1.920	3.67	09/14/2023
Antimony			0.0010		0.473	0.5000	0	94.6	0.4621	2.31	09/01/2023
Arsenic			0.0010		0.541	0.5000	0	108.1	0.5438	0.58	09/14/2023
Barium			0.0010		2.25	2.000	0.1003	107.6	2.279	1.16	09/14/2023
Beryllium			0.0010		0.0482	0.0500	0	96.3	0.04919	2.14	09/14/2023
Boron			0.0250		0.489	0.5000	0	97.7	0.5032	2.95	09/14/2023
Cadmium			0.0010		0.0494	0.0500	0	98.7	0.04963	0.52	09/14/2023
Chromium			0.0015		0.204	0.2000	0.0009832	101.3	0.2087	2.45	09/14/2023
Cobalt			0.0010		0.444	0.5000	0	88.9	0.4716	5.97	09/01/2023
Copper			0.0010		0.248	0.2500	0.001184	98.7	0.2559	3.20	09/14/2023
Iron			0.0250		2.03	2.000	0.02414	100.3	2.078	2.29	09/14/2023
Lead			0.0010		0.522	0.5000	0	104.4	0.5314	1.78	09/14/2023
Manganese			0.0020		0.527	0.5000	0.004646	104.4	0.5436	3.18	09/14/2023
Molybdenum		*	0.0015		0.494	0.5000	0.0007224	98.7	0.5001	1.15	09/14/2023
Nickel			0.0010		0.495	0.5000	0.0004698	98.9	0.5092	2.85	09/14/2023
Selenium			0.0010		0.456	0.5000	0.002674	90.6	0.4561	0.10	09/01/2023
Silver			0.0010		0.0462	0.0500	0	92.4	0.04668	0.99	09/14/2023
Thallium			0.0020		0.227	0.2500	0	91.0	0.2261	0.63	09/01/2023
Vanadium			0.0050		0.453	0.5000	0	90.7	0.4539	0.11	09/01/2023
Zinc			0.0150		0.482	0.5000	0	96.4	0.4869	0.98	09/14/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210902		SampType: MS		Units mg/L						
SampID: 23071810-030DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.84	2.000	0	92.1	75	125	09/14/2023
Antimony		0.0010		0.469	0.5000	0	93.8	75	125	09/01/2023
Arsenic		0.0010		0.527	0.5000	0	105.4	75	125	09/14/2023
Barium		0.0010		2.18	2.000	0.04935	106.7	75	125	09/14/2023
Beryllium		0.0010		0.0485	0.0500	0	97.1	75	125	09/14/2023
Boron		0.0250		0.488	0.5000	0	97.6	75	125	09/14/2023
Cadmium		0.0010		0.0496	0.0500	0	99.2	75	125	09/14/2023
Chromium		0.0015		0.206	0.2000	0.0007224	102.6	75	125	09/14/2023
Cobalt		0.0010		0.417	0.5000	0	83.3	75	125	09/01/2023
Copper		0.0010		0.254	0.2500	0.001428	101.1	75	125	09/14/2023
Iron		0.0250		2.05	2.000	0.01838	101.6	75	125	09/14/2023
Lead		0.0010		0.528	0.5000	0	105.7	75	125	09/14/2023
Manganese		0.0020		0.534	0.5000	0.003166	106.1	75	125	09/14/2023
Molybdenum	*	0.0015		0.505	0.5000	0	101.1	75	125	09/14/2023
Nickel		0.0010		0.504	0.5000	0	100.8	75	125	09/14/2023
Selenium		0.0010		0.441	0.5000	0	88.2	75	125	09/01/2023
Silver		0.0010		0.0467	0.0500	0	93.3	75	125	09/14/2023
Thallium		0.0020		0.226	0.2500	0	90.4	75	125	09/01/2023
Vanadium		0.0050		0.447	0.5000	0	89.4	75	125	09/01/2023
Zinc		0.0150		0.466	0.5000	0	93.3	75	125	09/14/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	210902	SampType:	MSD	Units				mg/L	RPD Limit			20
SampID: 23071810-030DMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum			0.0250		1.81	2.000	0	90.6	1.842	1.62	09/14/2023	
Antimony			0.0010		0.473	0.5000	0	94.6	0.4692	0.85	09/01/2023	
Arsenic			0.0010		0.519	0.5000	0	103.8	0.5268	1.46	09/14/2023	
Barium			0.0010		2.12	2.000	0.04935	103.5	2.183	2.94	09/14/2023	
Beryllium			0.0010		0.0480	0.0500	0	96.0	0.04854	1.11	09/14/2023	
Boron			0.0250		0.499	0.5000	0	99.8	0.4879	2.23	09/14/2023	
Cadmium			0.0010		0.0478	0.0500	0	95.7	0.04958	3.59	09/14/2023	
Chromium			0.0015		0.202	0.2000	0.0007224	100.7	0.2059	1.90	09/14/2023	
Cobalt			0.0010		0.415	0.5000	0	82.9	0.4166	0.46	09/01/2023	
Copper			0.0010		0.241	0.2500	0.001428	95.9	0.2541	5.26	09/14/2023	
Iron			0.0250		1.98	2.000	0.01838	98.3	2.051	3.30	09/14/2023	
Lead			0.0010		0.509	0.5000	0	101.8	0.5284	3.72	09/14/2023	
Manganese			0.0020		0.512	0.5000	0.003166	101.7	0.5335	4.15	09/14/2023	
Molybdenum	*		0.0015		0.490	0.5000	0	98.0	0.5054	3.11	09/14/2023	
Nickel			0.0010		0.486	0.5000	0	97.2	0.5040	3.68	09/14/2023	
Selenium			0.0010		0.438	0.5000	0	87.7	0.4408	0.58	09/01/2023	
Silver			0.0010		0.0449	0.0500	0	89.9	0.04667	3.77	09/14/2023	
Thallium			0.0020		0.222	0.2500	0	88.7	0.2261	1.96	09/01/2023	
Vanadium			0.0050		0.445	0.5000	0	89.0	0.4468	0.44	09/01/2023	
Zinc			0.0150		0.457	0.5000	0	91.4	0.4664	2.07	09/14/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210928		SampType: MBLK		Units mg/L							Date Analyzed	
SampleID: MBLK-210928												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100			
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100			
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100			
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100			
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100			
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100			
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100			
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100			
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100			
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100			
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100			
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100			
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100			
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100			
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100			
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100			
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100			
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100			
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100			
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100			
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100			



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210928 SampType: LCS Units mg/L										
SampID: LCS-210928										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		2.07	2.000	0	103.3	80	120	09/08/2023
Antimony		0.0010		0.450	0.5000	0	90.1	80	120	09/01/2023
Arsenic		0.0010		0.495	0.5000	0	99.1	80	120	09/08/2023
Barium		0.0010		2.33	2.000	0	116.5	80	120	09/08/2023
Beryllium		0.0010		0.0461	0.0500	0	92.3	80	120	09/08/2023
Boron		0.0250		0.484	0.5000	0	96.7	80	120	09/08/2023
Cadmium		0.0010		0.0492	0.0500	0	98.5	80	120	09/08/2023
Chromium		0.0015		0.196	0.2000	0	98.1	80	120	09/08/2023
Cobalt		0.0010		0.477	0.5000	0	95.4	80	120	09/01/2023
Copper		0.0010		0.265	0.2500	0	106.2	80	120	09/08/2023
Iron		0.0250		1.98	2.000	0	98.9	80	120	09/08/2023
Lead		0.0010		0.503	0.5000	0	100.6	80	120	09/08/2023
Manganese		0.0020		0.506	0.5000	0	101.1	80	120	09/08/2023
Molybdenum	*	0.0015		0.499	0.5000	0	99.9	80	120	09/08/2023
Nickel		0.0010		0.527	0.5000	0	105.3	80	120	09/08/2023
Selenium		0.0010		0.443	0.5000	0	88.6	80	120	09/01/2023
Silver		0.0010		0.0525	0.0500	0	105.1	80	120	09/08/2023
Thallium		0.0020		0.227	0.2500	0	91.0	80	120	09/01/2023
Vanadium		0.0050		0.451	0.5000	0	90.1	80	120	09/01/2023
Zinc		0.0150		0.413	0.5000	0	82.6	80	120	09/08/2023

Batch 210928 SampType: MS Units mg/L										
SampID: 23071810-094DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		1.98	2.000	0.1910	89.3	75	125	09/13/2023
Iron		0.0250		2.00	2.000	0	99.9	75	125	09/13/2023
Manganese		0.0400	S	6.89	0.5000	6.769	24.2	75	125	09/13/2023

Batch 210928 SampType: MSD Units mg/L										
SampID: 23071810-094DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		2.00	2.000	0.1910	90.2	1.977	0.93	09/13/2023
Iron		0.0250		1.97	2.000	0	98.7	1.999	1.26	09/13/2023
Manganese		0.0400	S	7.01	0.5000	6.769	48.1	6.890	1.71	09/13/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210770 SampType: MBLK Units mg/L

SampleID: MBLK-210770

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	08/22/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/22/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/23/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	08/22/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	08/22/2023
Boron	*	0.0250		< 0.0250	0.0093	0	0	-100	100	08/22/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/22/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/23/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/23/2023
Copper		0.0010	S	0.0025	0.0003	0	837.0	-100	100	08/29/2023
Iron	*	0.0250		< 0.0250	0.0115	0	0	-100	100	08/23/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/22/2023
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	08/23/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/23/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/22/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/22/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/22/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/22/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/26/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/23/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/22/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210770		SampType: LCS		Units mg/L							
SampID: LCS-210770											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		1.92	2.000	0	96.1	85	115	08/22/2023	
Antimony		0.0010		0.538	0.5000	0	107.6	85	115	08/22/2023	
Arsenic		0.0010		0.552	0.5000	0	110.5	85	115	08/23/2023	
Barium		0.0010		2.20	2.000	0	110.2	85	115	08/22/2023	
Beryllium		0.0010		0.0495	0.0500	0	99.1	85	115	08/22/2023	
Boron	*	0.0250		0.502	0.5000	0	100.3	85	115	08/22/2023	
Cadmium		0.0010		0.0521	0.0500	0	104.2	85	115	08/22/2023	
Chromium		0.0015		0.197	0.2000	0	98.5	85	115	08/23/2023	
Cobalt		0.0010		0.516	0.5000	0	103.2	85	115	08/23/2023	
Copper		0.0010	B	0.276	0.2500	0	110.4	85	115	08/29/2023	
Iron	*	0.0250		1.94	2.000	0	96.8	85	115	08/23/2023	
Lead		0.0010		0.532	0.5000	0	106.4	85	115	08/22/2023	
Lithium	*	0.0030		0.469	0.5000	0	93.9	85	115	08/23/2023	
Manganese		0.0020		0.502	0.5000	0	100.5	85	115	08/23/2023	
Molybdenum	*	0.0015		0.489	0.5000	0	97.7	85	115	08/22/2023	
Nickel		0.0010		0.529	0.5000	0	105.9	85	115	08/22/2023	
Selenium		0.0010		0.524	0.5000	0	104.8	85	115	08/22/2023	
Thallium		0.0020		0.263	0.2500	0	105.3	85	115	08/26/2023	
Vanadium		0.0050		0.507	0.5000	0	101.4	85	115	08/23/2023	
Zinc		0.0150		0.508	0.5000	0	101.5	85	115	08/22/2023	

Batch 210770		SampType: MS		Units mg/L							
SampID: 23071810-009CMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Boron		0.0250		0.548	0.5000	0.01338	106.9	75	125	09/13/2023	

Batch 210770		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 23071810-009CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron			0.0250		0.555	0.5000	0.01338	108.2	0.5478	1.23	09/13/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210785		SampType: MBLK		Units mg/L						
SampID: MBLK-210785										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/10/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	08/16/2023
Iron	*	0.0250		< 0.0250	0.0115	0	0	-100	100	08/16/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/16/2023

Batch 210785		SampType: LCS		Units mg/L						
SampID: LCS-210785										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		0.481	0.5000	0	96.3	80	120	09/10/2023
Copper		0.0010		0.274	0.2500	0	109.4	85	115	08/16/2023
Iron	*	0.0250		2.08	2.000	0	104.0	85	115	08/16/2023
Manganese		0.0020		0.505	0.5000	0	101.1	85	115	08/16/2023

Batch	210785	SampType:	LCSD	Units mg/L						RPD Limit		20
SampID: LCSD-210785												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Boron			0.0250		0.465	0.5000	0	92.9	0.4813	3.53	09/11/2023	
Copper			0.0010		0.262	0.2500	0	104.9	0.2736	4.28	08/16/2023	
Iron		*	0.0250		2.07	2.000	0	103.3	2.079	0.65	08/16/2023	
Manganese			0.0020		0.499	0.5000	0	99.7	0.5054	1.35	08/16/2023	

Batch 210785		SampType: MS		Units mg/L							Date Analyzed
SampID: 23071810-012CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Boron		0.0250		0.483	0.5000	0	96.6	75	125	09/11/2023	

Batch 210785		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 23071810-012CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron			0.0250		0.489	0.5000	0	97.9	0.4832	1.29	09/11/2023

Batch 210785		SampType: MS		Units mg/L							
SampID: 23071810-017CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Boron		0.0250		0.481	0.5000	0	96.2	75	125	09/11/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210785		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 23071810-017CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Boron		0.0250		0.480	0.5000	0	96.0	0.4808	0.12	09/11/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210812 SampType: MBLK Units mg/L
SampleID: MBLK-210812

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	08/30/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	08/30/2023
Beryllium		0.0010		< 0.0010	0.0003	0	0	-100	100	08/30/2023
Boron	*	0.0250		< 0.0250	0.0093	0	0	-100	100	08/30/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/29/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/29/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	08/30/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Copper		0.0010	S	0.0010	0.0003	0	345.1	-100	100	08/29/2023
Iron	*	0.0250		< 0.0250	0.0115	0	0	-100	100	08/29/2023
Iron	*	0.0250		< 0.0250	0.0115	0	0	-100	100	08/30/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/29/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	08/30/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	08/30/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/29/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/30/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/29/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/29/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/30/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/29/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/29/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/30/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210812		SampType: LCS		Units mg/L							Date
SampID: LCS-210812											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Aluminum		0.0250		1.80	2.000	0	90.1	85	115	08/30/2023	
Antimony		0.0010		0.507	0.5000	0	101.4	85	115	08/30/2023	
Antimony		0.0010		0.516	0.5000	0	103.3	85	115	08/30/2023	
Arsenic		0.0010		0.528	0.5000	0	105.6	85	115	08/30/2023	
Arsenic		0.0010		0.532	0.5000	0	106.5	85	115	08/30/2023	
Barium		0.0010		2.07	2.000	0	103.5	85	115	08/30/2023	
Beryllium		0.0010		0.0486	0.0500	0	97.2	85	115	08/30/2023	
Boron	*	0.0250		0.512	0.5000	0	102.4	85	115	08/30/2023	
Cadmium		0.0010		0.0509	0.0500	0	101.7	85	115	08/30/2023	
Cadmium		0.0010		0.0498	0.0500	0	99.6	85	115	08/30/2023	
Chromium		0.0015		0.203	0.2000	0	101.3	85	115	08/30/2023	
Chromium		0.0015		0.212	0.2000	0	105.9	85	115	08/30/2023	
Cobalt		0.0010		0.524	0.5000	0	104.7	85	115	08/30/2023	
Copper		0.0010	B	0.263	0.2500	0	105.0	85	115	08/30/2023	
Iron	*	0.0250		2.01	2.000	0	100.6	85	115	08/30/2023	
Iron	*	0.0250		2.09	2.000	0	104.5	85	115	08/30/2023	
Lead		0.0010		0.475	0.5000	0	95.0	85	115	08/30/2023	
Lead		0.0010		0.515	0.5000	0	102.9	85	115	08/30/2023	
Lithium	*	0.0030		0.512	0.5000	0	102.5	85	115	08/30/2023	
Manganese		0.0020		0.513	0.5000	0	102.6	85	115	08/30/2023	
Molybdenum	*	0.0015		0.505	0.5000	0	101.1	85	115	08/30/2023	
Molybdenum	*	0.0015		0.499	0.5000	0	99.7	85	115	08/30/2023	
Nickel		0.0010		0.531	0.5000	0	106.2	85	115	08/30/2023	
Nickel		0.0010		0.504	0.5000	0	100.7	85	115	08/30/2023	
Selenium		0.0010		0.477	0.5000	0	95.4	85	115	08/30/2023	
Selenium		0.0010		0.491	0.5000	0	98.1	85	115	08/30/2023	
Silver		0.0010	S	0.0579	0.0500	0	115.7	85	115	08/30/2023	
Thallium		0.0020		0.251	0.2500	0	100.6	85	115	08/30/2023	
Vanadium		0.0050		0.512	0.5000	0	102.5	85	115	08/30/2023	
Vanadium		0.0050		0.507	0.5000	0	101.4	85	115	08/30/2023	
Zinc		0.0150		0.453	0.5000	0	90.5	85	115	08/30/2023	
Zinc		0.0150		0.475	0.5000	0	94.9	85	115	08/30/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210812		SampType: MS		Units mg/L							Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
SampID: 23071810-101CMS											
Boron			0.0250		0.483	0.5000	0.01088	94.3	75	125	09/11/2023

Batch 210812		SampType: MSD		Units mg/L							Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
SampID: 23071810-101CMSD											
Boron			0.0250		0.480	0.5000	0.01088	93.8	0.4825	0.58	09/11/2023

Batch 210813		SampType: MBLK		Units mg/L							Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
SampID: MBLK-210813											
Aluminum			0.0250		< 0.0250	0.0125	0	0	-100	100	08/31/2023
Antimony			0.0010		< 0.0010	0.0004	0	0	-100	100	08/31/2023
Arsenic			0.0010		< 0.0010	0.0004	0	0	-100	100	08/31/2023
Barium			0.0010		< 0.0010	0.0007	0	0	-100	100	09/07/2023
Beryllium			0.0010		< 0.0010	0.0002	0	0	-100	100	08/31/2023
Boron			0.0250		< 0.0250	0.0093	0	0	-100	100	08/31/2023
Cadmium			0.0010		< 0.0010	0.0001	0	0	-100	100	08/31/2023
Chromium			0.0015		< 0.0015	0.0007	0	0	-100	100	08/31/2023
Cobalt			0.0010		< 0.0010	0.0001	0	0	-100	100	08/31/2023
Copper			0.0010		< 0.0010	0.0003	0	0	-100	100	08/31/2023
Iron			0.0250		< 0.0250	0.0115	0	0	-100	100	08/31/2023
Lead			0.0010		< 0.0010	0.0006	0	0	-100	100	08/31/2023
Lithium		*	0.0030		< 0.0030	0.0015	0	0	-100	100	08/31/2023
Manganese			0.0020		< 0.0020	0.0008	0	0	-100	100	08/31/2023
Molybdenum		*	0.0015		< 0.0015	0.0006	0	0	-100	100	08/31/2023
Nickel			0.0010		< 0.0010	0.0004	0	0	-100	100	08/31/2023
Selenium			0.0010		< 0.0010	0.0006	0	0	-100	100	08/31/2023
Silver			0.0010		< 0.0010	0.0001	0	0	-100	100	08/31/2023
Thallium			0.0020		< 0.0020	0.0010	0	0	-100	100	08/31/2023
Vanadium			0.0050		< 0.0050	0.0028	0	0	-100	100	08/31/2023
Zinc			0.0150		< 0.0150	0.0059	0	0	-100	100	09/07/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210813		SampType: LCS		Units mg/L							
SampID: LCS-210813											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		1.99	2.000	0	99.4	80	120	08/31/2023	
Antimony		0.0010		0.540	0.5000	0	107.9	80	120	08/31/2023	
Arsenic		0.0010		0.513	0.5000	0	102.5	80	120	08/31/2023	
Barium		0.0010		2.36	2.000	0	117.8	80	120	09/07/2023	
Beryllium		0.0010		0.0498	0.0500	0	99.7	80	120	08/31/2023	
Boron		0.0250		0.510	0.5000	0	101.9	80	120	08/31/2023	
Cadmium		0.0010		0.0506	0.0500	0	101.1	80	120	08/31/2023	
Chromium		0.0015		0.199	0.2000	0	99.7	80	120	08/31/2023	
Cobalt		0.0010		0.495	0.5000	0	99.1	80	120	08/31/2023	
Copper		0.0010		0.250	0.2500	0	100.0	80	120	08/31/2023	
Iron		0.0250		1.98	2.000	0	99.0	80	120	08/31/2023	
Lead		0.0010		0.508	0.5000	0	101.6	80	120	08/31/2023	
Lithium	*	0.0030		0.519	0.5000	0	103.9	80	120	08/31/2023	
Manganese		0.0020		0.493	0.5000	0	98.6	80	120	08/31/2023	
Molybdenum	*	0.0015		0.482	0.5000	0	96.5	80	120	08/31/2023	
Nickel		0.0010		0.497	0.5000	0	99.4	80	120	08/31/2023	
Selenium		0.0010		0.467	0.5000	0	93.5	80	120	08/31/2023	
Silver		0.0010		0.0563	0.0500	0	112.6	80	120	08/31/2023	
Thallium		0.0020		0.247	0.2500	0	98.8	80	120	08/31/2023	
Vanadium		0.0050		0.497	0.5000	0	99.5	80	120	08/31/2023	
Zinc		0.0150		0.421	0.5000	0	84.2	80	120	09/07/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210813		SampType: MS		Units mg/L							
SampID: 23071810-082CMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Antimony		0.0010		0.564	0.5000	0	112.9	75	125	09/01/2023	
Arsenic		0.0010		0.531	0.5000	0.002037	105.9	75	125	09/01/2023	
Beryllium		0.0010		0.0509	0.0500	0.0003377	101.0	75	125	09/01/2023	
Boron		0.0250		0.655	0.5000	0.1486	101.2	75	125	09/01/2023	
Cadmium		0.0010		0.0509	0.0500	0	101.8	75	125	09/01/2023	
Chromium		0.0015		0.198	0.2000	0	98.8	75	125	09/01/2023	
Cobalt		0.0010		0.486	0.5000	0.003099	96.6	75	125	09/01/2023	
Lead		0.0010		0.556	0.5000	0	111.1	75	125	09/08/2023	
Lithium	*	0.0030		0.535	0.5000	0.009555	105.0	75	125	09/01/2023	
Molybdenum	*	0.0015		0.493	0.5000	0	98.6	75	125	09/01/2023	
Selenium		0.0010		0.470	0.5000	0	94.0	75	125	09/01/2023	
Thallium		0.0020		0.248	0.2500	0	99.2	75	125	09/01/2023	

Batch 210813		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 23071810-082CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.550	0.5000	0	110.0	0.5643	2.57	09/01/2023
Arsenic		0.0010		0.535	0.5000	0.002037	106.6	0.5314	0.74	09/01/2023
Beryllium		0.0010		0.0515	0.0500	0.0003377	102.4	0.05086	1.30	09/01/2023
Boron		0.0250		0.665	0.5000	0.1486	103.3	0.6546	1.57	09/01/2023
Cadmium		0.0010		0.0506	0.0500	0	101.2	0.05088	0.51	09/01/2023
Chromium		0.0015		0.201	0.2000	0	100.7	0.1975	1.91	09/01/2023
Cobalt		0.0010		0.497	0.5000	0.003099	98.8	0.4863	2.24	09/01/2023
Lead		0.0010		0.562	0.5000	0	112.5	0.5557	1.21	09/08/2023
Lithium	*	0.0030		0.534	0.5000	0.009555	105.0	0.5346	0.04	09/01/2023
Molybdenum	*	0.0015		0.499	0.5000	0	99.7	0.4928	1.18	09/01/2023
Selenium		0.0010		0.478	0.5000	0	95.6	0.4700	1.66	09/01/2023
Thallium		0.0020		0.251	0.2500	0	100.3	0.2480	1.06	09/01/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210813		SampType: MS		Units mg/L						
SampID: 23071810-083CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.593	0.5000	0	118.6	75	125	09/01/2023
Arsenic		0.0010		0.519	0.5000	0.0004430	103.6	75	125	09/01/2023
Beryllium		0.0010		0.0544	0.0500	0	108.7	75	125	09/01/2023
Boron		0.0250		0.645	0.5000	0.1544	98.1	75	125	09/01/2023
Cadmium		0.0010		0.0540	0.0500	0	107.9	75	125	09/01/2023
Chromium		0.0015		0.200	0.2000	0	99.8	75	125	09/01/2023
Cobalt		0.0010		0.482	0.5000	0.0005448	96.3	75	125	09/01/2023
Lead		0.0010		0.554	0.5000	0	110.8	75	125	09/08/2023
Lithium	*	0.0030		0.556	0.5000	0.01277	108.6	75	125	09/01/2023
Molybdenum	*	0.0015		0.515	0.5000	0.001624	102.6	75	125	09/01/2023
Selenium		0.0010		0.465	0.5000	0.001508	92.7	75	125	09/01/2023
Thallium		0.0020		0.252	0.2500	0.001437	100.2	75	125	09/01/2023

Batch 210813		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 23071810-083CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.624	0.5000	0	124.8	0.5931	5.08	09/01/2023
Arsenic		0.0010		0.557	0.5000	0.0004430	111.3	0.5186	7.16	09/01/2023
Beryllium		0.0010		0.0548	0.0500	0	109.6	0.05435	0.81	09/01/2023
Boron		0.0250		0.664	0.5000	0.1544	101.8	0.6450	2.84	09/01/2023
Cadmium		0.0010		0.0576	0.0500	0	115.2	0.05396	6.54	09/01/2023
Chromium		0.0015		0.206	0.2000	0	103.0	0.1996	3.17	09/01/2023
Cobalt		0.0010		0.510	0.5000	0.0005448	102.0	0.4821	5.70	09/01/2023
Lead		0.0010		0.559	0.5000	0	111.8	0.5538	0.90	09/08/2023
Lithium	*	0.0030		0.560	0.5000	0.01277	109.5	0.5560	0.74	09/01/2023
Molybdenum	*	0.0015		0.537	0.5000	0.001624	107.2	0.5145	4.36	09/01/2023
Selenium		0.0010		0.495	0.5000	0.001508	98.6	0.4652	6.11	09/01/2023
Thallium		0.0020		0.261	0.2500	0.001437	103.8	0.2520	3.51	09/01/2023



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210826		SampType: MBLK		Units mg/L							Date Analyzed	
SampID: MBLK-210826												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/01/2023		
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023		
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023		
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/07/2023		
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/01/2023		
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/01/2023		
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/01/2023		
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/01/2023		
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/01/2023		
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/01/2023		
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/01/2023		
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/07/2023		
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	09/01/2023		
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/01/2023		
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/01/2023		
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/01/2023		
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/01/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210826		SampType: LCS		Units mg/L							
SampID: LCS-210826											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		2.07	2.000	0	103.6	80	120	09/01/2023	
Antimony		0.0010		0.565	0.5000	0	112.9	80	120	09/01/2023	
Arsenic		0.0010		0.549	0.5000	0	109.8	80	120	09/01/2023	
Barium		0.0010		2.32	2.000	0	116.1	80	120	09/08/2023	
Beryllium		0.0010		0.0524	0.0500	0	104.8	80	120	09/01/2023	
Boron		0.0250		0.525	0.5000	0	104.9	80	120	09/01/2023	
Cadmium		0.0010		0.0528	0.0500	0	105.7	80	120	09/01/2023	
Chromium		0.0015		0.205	0.2000	0	102.7	80	120	09/01/2023	
Cobalt		0.0010		0.511	0.5000	0	102.1	80	120	09/01/2023	
Iron		0.0250		2.04	2.000	0	102.0	80	120	09/01/2023	
Lead		0.0010		0.572	0.5000	0	114.5	80	120	09/07/2023	
Lithium	*	0.0030		0.545	0.5000	0	109.0	80	120	09/01/2023	
Manganese		0.0020		0.522	0.5000	0	104.3	80	120	09/01/2023	
Molybdenum	*	0.0015		0.510	0.5000	0	102.0	80	120	09/01/2023	
Selenium		0.0010		0.497	0.5000	0	99.4	80	120	09/01/2023	
Thallium		0.0020		0.250	0.2500	0	100.1	80	120	09/01/2023	

Batch 210826		SampType: MS		Units mg/L						
SampID: 23071810-105CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		2.18	2.000	0.1244	102.7	75	125	09/01/2023
Antimony		0.0010		0.544	0.5000	0	108.7	75	125	09/01/2023
Arsenic		0.0010		0.531	0.5000	0.002203	105.8	75	125	09/01/2023
Barium		0.0010		2.39	2.000	0.1183	113.5	75	125	09/08/2023
Beryllium		0.0010		0.0527	0.0500	0	105.4	75	125	09/01/2023
Boron		0.0250		2.48	0.5000	1.917	111.9	75	125	09/01/2023
Cadmium		0.0010		0.0508	0.0500	0	101.5	75	125	09/01/2023
Chromium		0.0015		0.202	0.2000	0	101.2	75	125	09/01/2023
Cobalt		0.0010		0.504	0.5000	0.0001336	100.7	75	125	09/01/2023
Iron		0.0250		3.28	2.000	1.210	103.7	75	125	09/01/2023
Lead		0.0010		0.575	0.5000	0	115.0	75	125	09/07/2023
Lithium	*	0.0030		0.587	0.5000	0.05368	106.7	75	125	09/01/2023
Manganese		0.0020		0.592	0.5000	0.09027	100.4	75	125	09/01/2023
Molybdenum	*	0.0015		0.517	0.5000	0.02080	99.3	75	125	09/01/2023
Selenium		0.0010		0.477	0.5000	0	95.4	75	125	09/01/2023
Thallium		0.0020		0.252	0.2500	0	100.9	75	125	09/01/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	210826	SampType:	MSD	Units mg/L				RPD Limit 20			
SampID: 23071810-105CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum			0.0250		2.13	2.000	0.1244	100.1	2.178	2.44	09/01/2023
Antimony			0.0010		0.549	0.5000	0	109.9	0.5436	1.05	09/01/2023
Arsenic			0.0010		0.525	0.5000	0.002203	104.6	0.5313	1.15	09/01/2023
Barium			0.0010		2.43	2.000	0.1183	115.7	2.388	1.84	09/08/2023
Beryllium			0.0010		0.0501	0.0500	0	100.2	0.05272	5.10	09/01/2023
Boron			0.0250		2.42	0.5000	1.917	99.6	2.477	2.52	09/01/2023
Cadmium			0.0010		0.0513	0.0500	0	102.6	0.05076	1.02	09/01/2023
Chromium			0.0015		0.198	0.2000	0	99.2	0.2025	2.08	09/01/2023
Cobalt			0.0010		0.492	0.5000	0.0001336	98.4	0.5036	2.26	09/01/2023
Iron			0.0250		3.16	2.000	1.210	97.7	3.284	3.70	09/01/2023
Lead			0.0010		0.557	0.5000	0	111.5	0.5750	3.12	09/07/2023
Lithium		*	0.0030		0.583	0.5000	0.05368	105.8	0.5874	0.82	09/01/2023
Manganese			0.0020		0.581	0.5000	0.09027	98.2	0.5921	1.88	09/01/2023
Molybdenum		*	0.0015		0.520	0.5000	0.02080	99.9	0.5172	0.55	09/01/2023
Selenium			0.0010		0.470	0.5000	0	94.0	0.4770	1.50	09/01/2023
Thallium			0.0020		0.254	0.2500	0	101.7	0.2522	0.86	09/01/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210901 SampType: MBLK Units mg/L

SampleID: MBLK-210901

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/01/2023
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/07/2023
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/01/2023
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/01/2023
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/01/2023
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/01/2023
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	09/01/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/01/2023
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/01/2023
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/07/2023
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	09/01/2023
Manganese		0.0020	S	0.0124	0.0008	0	1659	-100	100	09/01/2023
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/01/2023
Nickel		0.0010		< 0.0010	0.0004	0	0	-100	100	09/01/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/01/2023
Silver		0.0010		< 0.0010	0.0001	0	0	-100	100	09/01/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/01/2023
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	09/01/2023
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	09/01/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210901		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-210901											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		2.10	2.000	0	105.1	80	120	09/01/2023	
Antimony		0.0010		0.563	0.5000	0	112.6	80	120	09/01/2023	
Arsenic		0.0010		0.522	0.5000	0	104.3	80	120	09/01/2023	
Barium		0.0010		2.19	2.000	0	109.6	80	120	09/08/2023	
Beryllium		0.0010		0.0522	0.0500	0	104.4	80	120	09/01/2023	
Boron		0.0250		0.520	0.5000	0	103.9	80	120	09/01/2023	
Cadmium		0.0010		0.0521	0.0500	0	104.3	80	120	09/01/2023	
Chromium		0.0015		0.202	0.2000	0	101.2	80	120	09/01/2023	
Cobalt		0.0010		0.501	0.5000	0	100.2	80	120	09/01/2023	
Copper		0.0010		0.245	0.2500	0	98.0	80	120	09/01/2023	
Iron		0.0250		2.00	2.000	0	100.0	80	120	09/01/2023	
Lead		0.0010		0.514	0.5000	0	102.8	80	120	09/07/2023	
Lithium	*	0.0030		0.540	0.5000	0	108.0	80	120	09/01/2023	
Manganese		0.0020	B	0.504	0.5000	0	100.9	80	120	09/01/2023	
Manganese		0.0020	B	0.519	0.5000	0	103.8	80	120	09/08/2023	
Molybdenum	*	0.0015		0.485	0.5000	0	97.0	80	120	09/01/2023	
Nickel		0.0010		0.497	0.5000	0	99.5	80	120	09/01/2023	
Selenium		0.0010		0.468	0.5000	0	93.5	80	120	09/01/2023	
Silver		0.0010		0.0561	0.0500	0	112.1	80	120	09/01/2023	
Thallium		0.0020		0.251	0.2500	0	100.3	80	120	09/01/2023	
Vanadium		0.0050		0.513	0.5000	0	102.7	80	120	09/01/2023	
Zinc		0.0150		0.505	0.5000	0	101.0	80	120	09/01/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210901		SampType: MS		Units mg/L							
SampID: 23071810-028CMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		2.13	2.000	0.01360	105.7	75	125	09/01/2023	
Antimony		0.0010		0.558	0.5000	0	111.5	75	125	09/01/2023	
Arsenic		0.0010		0.533	0.5000	0	106.7	75	125	09/01/2023	
Beryllium		0.0010		0.0540	0.0500	0	107.9	75	125	09/01/2023	
Boron		0.0250		0.552	0.5000	0.01171	108.0	75	125	09/01/2023	
Cadmium		0.0010		0.0519	0.0500	0	103.7	75	125	09/01/2023	
Chromium		0.0015		0.205	0.2000	0.0008107	102.2	75	125	09/01/2023	
Cobalt		0.0010		0.513	0.5000	0	102.7	75	125	09/01/2023	
Copper		0.0010		0.250	0.2500	0.001259	99.5	75	125	09/01/2023	
Iron		0.0250		2.08	2.000	0.04023	101.9	75	125	09/01/2023	
Lead		0.0010		0.539	0.5000	0	107.8	75	125	09/07/2023	
Molybdenum	*	0.0015		0.511	0.5000	0.0007056	102.1	75	125	09/01/2023	
Nickel		0.0010		0.507	0.5000	0.0004437	101.3	75	125	09/01/2023	
Selenium		0.0010		0.482	0.5000	0.002385	95.9	75	125	09/01/2023	
Silver		0.0010		0.0570	0.0500	0	113.9	75	125	09/01/2023	
Thallium		0.0020		0.253	0.2500	0	101.2	75	125	09/01/2023	
Vanadium		0.0050		0.515	0.5000	0	103.0	75	125	09/01/2023	
Zinc		0.0150		0.519	0.5000	0	103.8	75	125	09/01/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	210901	SampType:	MSD	Units				mg/L	RPD Limit			20
SampleID:		23071810-028CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Aluminum		0.0250		2.07	2.000	0.01360	103.0	2.127	2.49	09/01/2023		
Antimony		0.0010		0.552	0.5000	0	110.3	0.5576	1.07	09/01/2023		
Arsenic		0.0010		0.525	0.5000	0	105.0	0.5333	1.59	09/01/2023		
Beryllium		0.0010		0.0527	0.0500	0	105.4	0.05397	2.37	09/01/2023		
Boron		0.0250		0.536	0.5000	0.01171	104.9	0.5515	2.81	09/01/2023		
Cadmium		0.0010		0.0519	0.0500	0	103.8	0.05187	0.06	09/01/2023		
Chromium		0.0015		0.201	0.2000	0.0008107	100.3	0.2051	1.86	09/01/2023		
Cobalt		0.0010		0.503	0.5000	0	100.6	0.5133	2.02	09/01/2023		
Copper		0.0010		0.245	0.2500	0.001259	97.3	0.2499	2.14	09/01/2023		
Iron		0.0250		2.06	2.000	0.04023	101.1	2.079	0.79	09/01/2023		
Lead		0.0010		0.537	0.5000	0	107.3	0.5391	0.45	09/07/2023		
Molybdenum	*	0.0015		0.495	0.5000	0.0007056	98.9	0.5110	3.14	09/01/2023		
Nickel		0.0010		0.489	0.5000	0.0004437	97.8	0.5070	3.54	09/01/2023		
Selenium		0.0010		0.478	0.5000	0.002385	95.1	0.4820	0.84	09/01/2023		
Silver		0.0010		0.0562	0.0500	0	112.4	0.05697	1.38	09/01/2023		
Thallium		0.0020		0.255	0.2500	0	102.1	0.2530	0.86	09/01/2023		
Vanadium		0.0050		0.512	0.5000	0	102.4	0.5150	0.59	09/01/2023		
Zinc		0.0150		0.518	0.5000	0	103.5	0.5192	0.29	09/01/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210926		SampType: MBLK		Units mg/L							Date Analyzed	
SampID: MBLK-210926												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Aluminum		0.0250		< 0.0250	0.0125	0	0	-100	100	09/10/2023		
Antimony		0.0010		< 0.0010	0.0008	0	0	-100	100	08/30/2023		
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/10/2023		
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/10/2023		
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	09/10/2023		
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	09/10/2023		
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	09/10/2023		
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	09/10/2023		
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	08/30/2023		
Iron		0.0250		< 0.0250	0.0115	0	0	-100	100	09/10/2023		
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/10/2023		
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	08/30/2023		
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/10/2023		
Molybdenum	*	0.0015		< 0.0015	0.0006	0	0	-100	100	09/11/2023		
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/30/2023		
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/30/2023		
Vanadium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2023		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210926		SampType: LCS		Units mg/L							
SampID: LCS-210926											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		1.90	2.000	0	95.2	80	120	09/13/2023	
Antimony		0.0010		0.502	0.5000	0	100.3	80	120	08/30/2023	
Arsenic		0.0010		0.554	0.5000	0	110.9	80	120	09/13/2023	
Barium		0.0010		2.24	2.000	0	112.1	80	120	09/13/2023	
Beryllium		0.0010		0.0468	0.0500	0	93.6	80	120	09/13/2023	
Boron		0.0250		0.595	0.5000	0	119.0	80	120	09/10/2023	
Cadmium		0.0010		0.0517	0.0500	0	103.4	80	120	09/13/2023	
Chromium		0.0015		0.216	0.2000	0	107.8	80	120	09/13/2023	
Cobalt		0.0010		0.568	0.5000	0	113.5	80	120	08/30/2023	
Iron		0.0250		2.17	2.000	0	108.5	80	120	09/13/2023	
Lithium	*	0.0030		0.505	0.5000	0	101.1	80	120	08/31/2023	
Manganese		0.0020		0.555	0.5000	0	111.0	80	120	09/13/2023	
Molybdenum	*	0.0015		0.517	0.5000	0	103.3	80	120	09/13/2023	
Selenium		0.0010		0.480	0.5000	0	96.0	80	120	08/30/2023	
Thallium		0.0020		0.255	0.2500	0	102.0	80	120	08/30/2023	
Vanadium		0.0050		0.500	0.5000	0	100.0	80	120	08/30/2023	

Batch 210926		SampType: MS		Units mg/L							
SampID: 23071810-052CMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		1.98	2.000	0.04995	96.4	75	125	09/13/2023	
Antimony		0.0010		0.502	0.5000	0	100.5	75	125	08/30/2023	
Arsenic		0.0010		0.555	0.5000	0	110.9	75	125	09/13/2023	
Barium		0.0010		2.41	2.000	0.1742	111.8	75	125	09/13/2023	
Beryllium		0.0010		0.0508	0.0500	0	101.5	75	125	09/13/2023	
Boron		0.0250		0.577	0.5000	0.05451	104.4	75	125	09/11/2023	
Cadmium		0.0010		0.0506	0.0500	0	101.3	75	125	09/13/2023	
Chromium		0.0015		0.210	0.2000	0	105.1	75	125	09/13/2023	
Cobalt		0.0010		0.472	0.5000	0	94.5	75	125	08/30/2023	
Iron		0.0250		4.77	2.000	2.658	105.5	75	125	09/13/2023	
Lead		0.0010		0.535	0.5000	0	106.9	75	125	09/13/2023	
Lithium	*	0.0030		0.547	0.5000	0.01019	107.4	75	125	08/31/2023	
Manganese		0.0020		0.752	0.5000	0.1774	114.9	75	125	09/13/2023	
Molybdenum	*	0.0015		0.526	0.5000	0.001671	104.8	75	125	09/13/2023	
Selenium		0.0010		0.456	0.5000	0	91.3	75	125	08/30/2023	
Thallium		0.0020		0.253	0.2500	0	101.1	75	125	08/30/2023	



Quality Control Results

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Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210926		SampType: MSD		Units mg/L				RPD Limit 20		
SampleID: 23071810-052CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		1.99	2.000	0.04995	96.8	1.978	0.40	09/13/2023
Antimony		0.0010		0.522	0.5000	0	104.4	0.5024	3.88	08/30/2023
Arsenic		0.0010		0.569	0.5000	0	113.8	0.5547	2.55	09/13/2023
Barium		0.0010		2.39	2.000	0.1742	110.9	2.410	0.69	09/13/2023
Beryllium		0.0010		0.0503	0.0500	0	100.5	0.05076	0.97	09/13/2023
Boron		0.0250		0.574	0.5000	0.05451	103.8	0.5767	0.55	09/11/2023
Cadmium		0.0010		0.0499	0.0500	0	99.8	0.05065	1.45	09/13/2023
Chromium		0.0015		0.216	0.2000	0	108.1	0.2102	2.79	09/13/2023
Cobalt		0.0010		0.494	0.5000	0	98.9	0.4724	4.56	08/30/2023
Iron		0.0250		4.88	2.000	2.658	111.2	4.768	2.37	09/13/2023
Lead		0.0010		0.546	0.5000	0	109.1	0.5345	2.04	09/13/2023
Lithium	*	0.0030		0.528	0.5000	0.01019	103.5	0.5474	3.65	08/31/2023
Manganese		0.0020		0.770	0.5000	0.1774	118.5	0.7517	2.36	09/13/2023
Molybdenum	*	0.0015		0.524	0.5000	0.001671	104.6	0.5257	0.25	09/13/2023
Selenium		0.0010		0.480	0.5000	0	96.1	0.4563	5.14	08/30/2023
Thallium		0.0020		0.262	0.2500	0	104.7	0.2527	3.47	08/30/2023

Batch 211078		SampType: MBLK		Units mg/L						
SampleID: MBLK-211078										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/02/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/08/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/08/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/05/2023

Batch 211078		SampType: LCS		Units mg/L						
SampleID: LCS-211078										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		0.543	0.5000	0	108.7	85	115	09/02/2023
Barium		0.0010		2.15	2.000	0	107.7	80	120	09/08/2023
Manganese		0.0020		0.520	0.5000	0	104.0	80	120	09/08/2023
Selenium		0.0010		0.529	0.5000	0	105.9	85	115	09/05/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211078		SampType: LCSD		Units mg/L				RPD Limit 20		
SampID: LCSD-211078										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		0.514	0.5000	0	102.9	0.5433	5.47	09/02/2023
Barium		0.0010		2.16	2.000	0	107.8	2.154	0.06	09/08/2023
Manganese		0.0020		0.515	0.5000	0	103.0	0.5201	1.04	09/08/2023
Selenium		0.0010		0.513	0.5000	0	102.5	0.5144	0.33	09/05/2023

Batch 211078		SampType: MS		Units mg/L						
SampID: 23071810-042CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0010		2.22	2.000	0.03473	109.1	75	125	09/08/2023
Manganese		0.0020		0.622	0.5000	0.1112	102.2	75	125	09/08/2023

Batch 211078		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 23071810-042CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium			0.0010		2.14	2.000	0.03473	105.3	2.216	3.49	09/08/2023
Manganese			0.0020		0.606	0.5000	0.1112	98.9	0.6221	2.66	09/08/2023

Batch 211843		SampType: MBLK		Units mg/L						
SampID: MBLK-211843										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/18/2023
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	09/15/2023
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/15/2023
Manganese		0.0020		< 0.0020	0.0008	0	0	-100	100	09/15/2023
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/15/2023

Batch 211843		SampType: LCS		Units mg/L						
SampID: LCS-211843										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.516	0.5000	0	103.3	80	120	09/18/2023
Barium		0.0010		2.27	2.000	0	113.4	80	120	09/15/2023
Copper		0.0010		0.263	0.2500	0	105.2	80	120	09/15/2023
Manganese		0.0020		0.543	0.5000	0	108.7	80	120	09/15/2023
Thallium		0.0020		0.257	0.2500	0	102.8	80	120	09/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211843 SampType: MS Units mg/L

SampID: 23071810-078CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Manganese		0.0080	S	4.95	1.000	5.423	-47.4	75	125	09/18/2023

Batch 211843 SampType: MSD Units mg/L

RPD Limit 20

SampID: 23071810-078CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Manganese		0.0080	S	5.10	1.000	5.423	-32.7	4.948	2.92	09/18/2023

Batch 211843 SampType: MS Units mg/L

SampID: 23071810-082CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0010	S	5.38	4.000	0.2086	129.3	75	125	09/15/2023

Batch 211843 SampType: MSD Units mg/L

RPD Limit 20

SampID: 23071810-082CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0010	S	5.56	4.000	0.2086	133.9	5.379	3.38	09/15/2023

Batch 211843 SampType: MS Units mg/L

SampID: 23071810-083CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0010	S	5.23	4.000	0.03066	130.0	75	125	09/15/2023

Batch 211843 SampType: MSD Units mg/L

RPD Limit 20

SampID: 23071810-083CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0010	S	5.37	4.000	0.03066	133.5	5.231	2.63	09/15/2023

Batch 211883 SampType: MBLK Units mg/L

SampID: MBLK-211883

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Copper		0.0010		< 0.0010	0.0003	0	0	-100	100	09/15/2023

Batch 211883 SampType: LCS Units mg/L

SampID: LCS-211883

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Copper		0.0010		0.275	0.2500	0	109.9	80	120	09/15/2023



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 212184		SampType: MBLK		Units mg/L						
SampID: MBLK-212184										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/20/2023
Iron	*	0.0250		< 0.0250	0.0115	0	0	-100	100	09/20/2023
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	09/20/2023

Batch 212184		SampType: LCS		Units mg/L						
SampID: LCS-212184										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		0.515	0.5000	0	103.1	85	115	09/20/2023
Iron	*	0.0250		2.14	2.000	0	106.9	85	115	09/20/2023
Selenium		0.0010		0.455	0.5000	0	91.0	85	115	09/20/2023

Batch 212184		SampType: MS		Units mg/L							
SampID: 23071810-114BMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron			0.0250		2.34	2.000	0.3837	97.6	75	125	09/20/2023

Batch 212184		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 23071810-114BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Iron			0.0250		2.31	2.000	0.3837	96.2	2.335	1.17	09/20/2023

SW-846 7470A (DISSOLVED)

Batch 210710		SampType: MS		Units mg/L							
SampID: 23071810-004DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00516	0.0050	0	103.2	75	125	08/14/2023	

Batch 210710		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-004DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.00020		0.00512	0.0050	0	102.3	0.005162	0.88	08/14/2023

Batch 210850		SampType: MS		Units mg/L							
SampID: 23071810-011CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00514	0.0050	0	102.7	75	125	08/15/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 7470A (DISSOLVED)

Batch 210850		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-011CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.00020		0.00495	0.0050	0	99.0	0.005137	3.67	08/15/2023

Batch 210850		SampType: MS		Units mg/L							
SampID: 23071810-021CMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00515	0.0050	0	103.0	75	125	08/15/2023	

Batch 210850		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 23071810-021CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Mercury		0.00020		0.00536	0.0050	0	107.3	0.005148	4.10	08/15/2023	

Batch 211199		SampType: MS		Units mg/L							
SampID: 23071810-050DMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00575	0.0050	0.0003389	108.2	75	125	08/23/2023	

Batch 211199		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-050DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.00020		0.00564	0.0050	0.0003389	106.1	0.005749	1.86	08/23/2023

SW-846 7470A (TOTAL)

Batch 210705		SampType: MBLK		Units mg/L							
SampID: MBLK-210705											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/11/2023	

Batch 210705		SampType: LCS		Units mg/L							
SampID: LCS-210705											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00540	0.0050	0	108.0	85	115	08/11/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 7470A (TOTAL)

Batch 210705		SampType: MS		Units mg/L							Date
SampID: 23071810-002CMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00556	0.0050	0	111.3	75	125	08/11/2023	

Batch 210705		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 23071810-002CMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Mercury		0.00020		0.00571	0.0050	0	114.2	0.005563	2.63	08/11/2023		

Batch 210710		SampType: MBLK		Units mg/L							Date
SampID: MBLK-210710											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/14/2023	

Batch 210710		SampType: LCS		Units mg/L							Date
SampID: LCS-210710											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00513	0.0050	0	102.6	85	115	08/14/2023	

Batch 210850		SampType: MBLK		Units mg/L							Date
SampID: MBLK-210850											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/15/2023	

Batch 210850		SampType: LCS		Units mg/L							Date
SampID: LCS-210850											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00491	0.0050	0	98.2	85	115	08/15/2023	

Batch 210851		SampType: MBLK		Units mg/L							Date
SampID: MBLK-210851											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/15/2023	

Batch 210851		SampType: LCS		Units mg/L							Date
SampID: LCS-210851											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00503	0.0050	0	100.7	85	115	08/15/2023	



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 7470A (TOTAL)

Batch 210851		SampType: MS		Units mg/L							Date
SampID: 23071810-034CMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00530	0.0050	0	105.9	75	125	08/15/2023	

Batch 210851		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 23071810-034CMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Mercury		0.00020		0.00508	0.0050	0	101.6	0.005297	4.21	08/15/2023		

Batch 210851		SampType: MS		Units mg/L							Date
SampID: 23071810-060CMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00481	0.0050	0	96.2	75	125	08/15/2023	

Batch 210851		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 23071810-060CMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Mercury		0.00020		0.00465	0.0050	0	93.0	0.004810	3.41	08/15/2023		

Batch 210857		SampType: MBLK		Units mg/L							Date
SampID: MBLK-210857											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/15/2023	

Batch 210857		SampType: LCS		Units mg/L							Date
SampID: LCS-210857											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00477	0.0050	0	95.4	85	115	08/15/2023	

Batch 210857		SampType: MS		Units mg/L							Date
SampID: 23071810-070CMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00487	0.0050	0	97.4	75	125	08/15/2023	

Batch 210857		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 23071810-070CMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Mercury		0.00020		0.00489	0.0050	0	97.8	0.004871	0.43	08/15/2023		



Quality Control Results

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Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 7470A (TOTAL)

Batch 210857		SampType: MS		Units mg/L						
SampID: 23071810-082CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00795	0.0100	0	79.5	75	125	08/15/2023

Batch 210857		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-082CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.00020		0.00810	0.0100	0	81.0	0.007945	1.87	08/15/2023

Batch 210858		SampType: MBLK		Units mg/L							
SampID: MBLK-210858											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/15/2023	

Batch 210858		SampType: LCS		Units mg/L							
SampID: LCS-210858											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00507	0.0050	0	101.3	85	115	08/15/2023	

Batch 210858		SampType: MS		Units mg/L							
SampID: 23071810-108CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00498	0.0050	0	99.7	75	125	08/15/2023	

Batch 210858		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-108CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.00020		0.00524	0.0050	0	104.8	0.004983	5.01	08/15/2023

Batch 210923		SampType: MBLK		Units mg/L							
SampID: MBLK-210923											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/16/2023	

Batch 210923		SampType: LCS		Units mg/L							
SampID: LCS-210923											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00544	0.0050	0	108.8	85	115	08/16/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 7470A (TOTAL)

Batch 210923		SampType: MS		Units mg/L							
SampID: 23071810-029CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00560	0.0050	0	112.0	75	125	08/16/2023	

Batch 210923		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-029CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.00020		0.00558	0.0050	0	111.6	0.005601	0.33	08/16/2023

Batch 210923		SampType: MS		Units mg/L							
SampID: 23071810-040CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00593	0.0050	0	118.6	75	125	08/16/2023	

Batch 210923		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-040CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00578	0.0050	0	115.7	0.005929	2.50	08/16/2023	

Batch 211199		SampType: MBLK		Units mg/L							
SampID: MBLK-211199											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/23/2023	

Batch 211199		SampType: LCS		Units mg/L							
SampID: LCS-211199											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00443	0.0050	0	88.6	85	115	08/23/2023	

Batch 211205		SampType: MBLK		Units mg/L							
SampID: MBLK-211205											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/25/2023	

Batch 211205		SampType: LCS		Units mg/L							
SampID: LCS-211205											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00571	0.0050	0	114.2	85	115	08/23/2023	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

SW-846 7470A (TOTAL)

Batch 211312		SampType: MBLK		Units mg/L							
SampID: MBLK-211312											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/26/2023	

Batch 211312		SampType: LCS		Units mg/L							
SampID: LCS-211312											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00458	0.0050	0	91.5	85	115	08/25/2023	

Batch 211312		SampType: MS		Units mg/L							
SampID: 23071810-094CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020	S	0.00227	0.0100	0	22.7	75	125	08/25/2023	

Batch 211312		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 23071810-094CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.00020	SR	0.00054	0.0100	0	5.4	0.002273	123.78	08/25/2023



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071810

Client Project: COF-23Q3

Report Date: 21-Nov-23

Carrier: Justin Colp

Received By: ANC

Completed by:

On:

10-Aug-23

Amber Dilallo

Reviewed by:

On:

15-Aug-23

Ellie Hopkins

Pages to follow:

Chain of custody

24

Extra pages included

0

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	Temp °C 3.4
Type of thermal preservation?	None ☐	Ice ☒	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Samples in proper container/bottle?	Yes ☒	No ☐		
Sample containers intact?	Yes ☒	No ☐		
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Reported field parameters measured:	Field ☒	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☒
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☒	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☒

Any No responses must be detailed below or on the COC.

pH strip #90719. - amberdilallo - 8/10/2023 10:45:53 AM

Additional Nitric Acid (92447) was needed upon arrival at the laboratory for G111 (Dissolved) and G303 (Total and Dissolved). - amberdilallo - 8/10/2023 10:46:03 AM

pH strip #79929/90719. - amberdilallo - 8/11/2023 9:37:32 AM

Additional Sulfuric Acid (90128) was needed upon arrival at the laboratory for G106 and R104. Additional Sodium Hydroxide (81662) was needed upon arrival at the laboratory for G153 and G154. Additional Nitric Acid (92447) was needed upon arrival at the laboratory for G154 (Total and Dissolved). - amberdilallo - 8/11/2023 9:38:34 AM

Samples collected on 8/10/23 were delivered to the laboratory on 8/10/23 at 1730 (on ice 2.6C - LTG5). AMD/ERH 8/10/23

Samples collected on 8/11/213 were delivered to the laboratory on 8/11/23 at 1427 (on ice 10.2C - LTG5). LM/ERH 8/10/23

Samples collected on 8/14/213 were delivered to the laboratory on 8/14/23 at 1810 (on ice 5.8C - LTG5). ANC/ERH 8/15/23

Additional Nitric Acid (92447) was needed upon arrival at the laboratory for X201. Additional Sulfuric Acid (90128) was needed upon arrival at the laboratory for X201. - amberdilallo - 8/15/2023 3:48:32 PM

X201 filtered and preserved with Nitric Acid (92447), Sulfuric Acid (90128) and left unpreserved for the dissolved parameters upon arrival at the laboratory. - amberdilallo - 8/15/2023 3:48:33 PM

pH strip #90719. - amberdilallo - 8/15/2023 3:48:35 PM

Samples collected on 8/15/213 were delivered to the laboratory on 8/15/23 at 1518 (on ice 12.4C - LTG1). TM/ERH 8/10/23

pH strip #90719. - amberdilallo - 9/19/2023 3:51:31 PM

Samples collected on 9/19/23 were delivered to the laboratory on 9/19/23 at 1312 (on ice 9.4C - LTG1). AMD/ERH 9/19/23

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Added HNO₃ to G111 (D) & G303 (T & D)
(92447) pH ✓ 9.0719 gm
8/10/23

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ITEM #	Section D Required Client Information	SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Y/N ↓	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.					
			MATRIX	CODE			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102				COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G125			8-9-23	1327			6	2	2																						23071812-DI7					
2	G126			8-9-23	1401			5	2	1																					DIP						
3	G151							4	2	1																						DI9					
4	G152							4	2	1																						DI0					
5	G153							4	2	1																						DI1					
6	G154							5	2	2																						DI2					
7	G155							4	2	1																						DI3					
8	G200							7	2	2																						DI4					
9	G206							7	2	2																						DI5					
10	G206D							6	2	2																						DI6					
11	G207							6	2	1																						DI7					
12	G208							6	2	1																						DI8					
13	G209							7	2	2																						DI9					
14	G210							6	2	1																						DI0					
15	G211							6	2	1																						DI1					
16	G212							7	2	2																						DI2					
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION				DATE		TIME		ACCEPTED BY / AFFILIATION				DATE		TIME		SAMPLE CONDITIONS																	
COF-23Q3 Rev 0				J. Colo				8-9		152		Allison Cole				8/9		152		Y N																	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on (dd / mm / yy)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Cobb					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 8-9-23				

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

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ITEM #	Section D Required Client Information	Valid Matrix Codes <u>MATRIX</u> <u>CODE</u> DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N ↑	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.					
					DATE	TIME			Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_8$	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103			COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
1	G213						1	2	2	2	1																		2307K.O-B33				
2	G214						6	2	1	2	1																		234				
3	G215						1	2	2	2	1																		235				
4	G216						6	2	1	2	1																		B36				
5	G217						1	2	2	2	1																		D37				
6	G218						1	2	2	2	1																		D38				
7	G270						1	2	2	2	1																		239				
8	G271						1	2	2	2	1																		D40				
9	G272						6	2	1	2	1																		D41				
10	G273						1	2	2	2	1																		D42				
11	G274						6	2	1	2	1																		D43				
12	G275						1	2	2	2	1																		D44				
13	G275D						6	2	2	2																			D45				
14	G276						1	2	2	2	1																		D46				
15	G277						1	2	2	2	1																		D47				
16	G278						6	2	1	2	1																		D48				
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																				
COF-23Q3 Rev 0								Allison Coler			8/9	1752	Y N																				
SAMPLER NAME AND SIGNATURE												Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)																		
PRINT Name of SAMPLER:																																	
SIGNATURE of SAMPLER:																																	
DATE Signed (MM/DD/YYYY):																																	

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Page: 4 of 7

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Page: 5 of 7

[illegible]

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Gold					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 8-9-23				

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Page: 6 of 7

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.			
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102		COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G407						7	2	2	2	1																					23071810-081	
2	G410						4	1	2	1																						082	
3	G411						4	1	2	1																						083	
4	G1001						6	2	2	2																						084	
5	G1003						0																									085	
6	L203						2	1	1																							086	
7	MW03D						0																									087	
8	MW11D						0																									088	
9	MW11S						0																									089	
10	MW12D						0																									090	
11	MW16D						0																									091	
12	MW16S						0																									092	
13	MW20S						0																									093	
14	NE Riser						6	2	2	2																						094	
15	R104						7	2	2	2	1																					095	
16	R201						7	2	2	2	1																					096	
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION								DATE	TIME	SAMPLE CONDITIONS															
COF-23Q3 Rev 0								Allison C. Lee								8/9	1752	Y N															

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

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Page: 7 of 7[illegible]

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Page: 1 of 7

ITEM #	Section D Required Client Information	Valid Matrix Codes <u>MATRIX</u> <u>CODE</u> DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N ↓	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.					
			DATE	TIME			Unpreserved H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₈	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104		COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-108	Residual Chlorine (Y/N)
1	G101				5	2	1	1	-																		23071810-001			
2	G102				7	2	2	2	-																	R02				
3	G103		8-10-28	0823	7	2	2	2	-																	R03				
4	G105			0859	7	2	2	2	-																	R04				
5	G106			0916	7	2	2	2	-																	R05				
6	G107			0943	5	2	1	1	-																	R06				
7	G108				5	2	1	1	-																	R07				
8	G109				5	2	1	1	-																	R08				
9	G110				5	2	1	1	-																	R09				
10	G111				5	2	1	1	-																	R10				
11	G119				5	2	1	1	-																	R11				
12	G120				6	2	1	2	-																	R12				
13	G121				5	2	1	1	-																	R13				
14	G122				5	2	1	1	-																	R14				
15	G123				5	2	1	1	-																	R15				
16	G124				5	2	1	1	-																	R16				
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION					DATE	TIME	SAMPLE CONDITIONS																
COF-23Q3 Rev 0			J. Gelp		8-10	1730	Smoe O'Quinn					8/10/23	1730	210 Y N Y																

ph 9071917929. Added H2SO4 (90219)
to G106 and G104. Added NaOH (1602) to
G153 and G154. Added HNO3 to total
and dissolve from G154. Ger 8-11-23.

DATE Signed (MM/DD/YY): 8-10-23

Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
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CHAIN-OF-CUSTODY / Analytical Request Document

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23071810

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 2 of 7	
Company: Visira Corp		Report To: Brian Voelker		Attention: Jason Stuckey			
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Visira Corp			
Email To: Brian.Voelker@VisiraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:			
				Profile #:			
						REGULATORY AGENCY	
						NPDES GROUND WATER DRINKING WATER	
						UST RCRA OTHER	
						Site Location	
						STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.				
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102		COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	
1	G125							6	2	1	2																							23071810-017
2	G126							5	2	1	1																							018
3	G151				8-10-23	1010		4	2	1	1																							019
4	G152				8-10-23	1209		4	2	1	1																							020
5	G153				8-10-23	1138		4	2	1	1																							021
6	G154				8-10-23	1113		5	2	2	1																							022
7	G155				8-10-23	1046		4	2	1	1																							023
8	G200							7	2	2	2																							024
9	G206							7	2	2	2																							025
10	G206D							6	2	2	2																							026
11	G207							6	2	1	2																							027
12	G208							6	2	1	2																							028
13	G209							7	2	2	2																							029
14	G210							6	2	1	2																							030
15	G211							6	2	1	2																							031
16	G212				8-10-23	1528		7	2	2	2																							032

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																	
COF-23Q3 Rev 0		J. Gelp		8-10		1730		Brie DeCelles		8/10/23		1730		Y N																	
<table border="1"> <tr> <td colspan="2">SAMPLER NAME AND SIGNATURE</td> <td rowspan="3">Temp in °C</td> <td rowspan="3">Received on Ice (Y/N)</td> <td rowspan="3">Custody Sealed Cooler (Y/N)</td> <td rowspan="3">Samples Intact (Y/N)</td> </tr> <tr> <td colspan="2">PRINT Name of SAMPLER: Jason Gelp</td> </tr> <tr> <td colspan="2">SIGNATURE of SAMPLER: [Signature]</td> </tr> <tr> <td colspan="2">DATE Signed (MM/DD/YY): 8-10-23</td> <td colspan="4"></td> </tr> </table>																SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	PRINT Name of SAMPLER: Jason Gelp		SIGNATURE of SAMPLER: [Signature]		DATE Signed (MM/DD/YY): 8-10-23					
SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)																										
PRINT Name of SAMPLER: Jason Gelp																															
SIGNATURE of SAMPLER: [Signature]																															
DATE Signed (MM/DD/YY): 8-10-23																															

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Page: 3 of 7

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Init'd (Y/N)
PRINT Name of SAMPLER: Justin Cold					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 8-10-23				

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CHAIN-OF-CUSTODY / Analytical Request Document

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COF-23Q3-1810

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 5 of 7	
Company: Visira Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Visira Corp			
Email To: Brian.Voelker@VisiraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test #	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106		Residual Chlorine (Y/N)
1	G308				8-10-23	1308		6	2	2	2																			23071810-065			
2	G309							9																						066			
3	G310							6	2	2	2																			067			
4	G312							6	2	2	2																			068			
5	G313							6	2	2	2																			069			
6	G314							6	2	2	2																			070			
7	G314D				8-10-23	1124		6	2	2	2																			071			
8	G315							6	2	2	2																			072			
9	G316							6	2	2	2																			073			
10	G317							9																						074			
11	G401							7	2	2	2	1																		075			
12	G402							7	2	2	2	1																		076			
13	G403							7	2	2	2	1																		077			
14	G404							7	2	2	2	1																		078			
15	G405							7	2	2	2	1																		079			
16	G406							7	2	2	2	1																		080			

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
COF-23Q3 Rev 0		J. Gelp		8-10		1730		Smile. D. Dale		8/10/23		1730		Y N	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Justin Gelp					
SIGNATURE of SAMPLER: [Signature]					
DATE Signed (MM/DD/YY): 8-10-23					

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Page: 6 of 7

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Justin Cole</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YY): <i>8-10-23</i>				

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SAMPLER NAME AND SIGNATURE		Temp in °C	Received on (cc (Y/N))	Custody Sustained Center (Y/N)	Samples Init'd (Y/N)
PRINT Name of SAMPLER: <i>Jos fm Corp</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YY): <i>8-10-23</i>				

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ASHPOND NO. 1
230180
COF-2579101

Page: 5 of 7

PH: 9071919929 (92444)	<table border="1"> <tr> <th colspan="2">SAMPLER NAME AND SIGNATURE</th> </tr> <tr> <td>PRINT Name of SAMPLER:</td> <td>Joe Kile</td> </tr> <tr> <td>SIGNATURE of SAMPLER:</td> <td>  </td> </tr> <tr> <td></td> <td> DATE Signed (MM/DD/YY): 8/11/23 </td> </tr> </table>		SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:	Joe Kile	SIGNATURE of SAMPLER:			DATE Signed (MM/DD/YY): 8/11/23	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SAMPLER NAME AND SIGNATURE														
PRINT Name of SAMPLER:	Joe Kile													
SIGNATURE of SAMPLER:														
	DATE Signed (MM/DD/YY): 8/11/23													
A Land for 23 to 6445 d ss														

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Page: 2 of 7

PH: 90719
AC 8/15

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Cop					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DDYY): 8-14-23				

CHAIN-OF-CUSTODY / Analytical Request Document

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APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Section A Required Client Information:

Company: **Vistra Corp**
Address: **13498 E. 900th St**
Email To: **Brian.Voelker@VistraCorp.com**
Phone: **(217) 753-8911** Fax:
Requested Due Date/TAT: **10 day**

Section B Required Project Information:

Report To: **Brian Voelker**
Copy To: **Jason Stuckey**
Purchase Order No.:
Project Name:
Project Number: **2285**

Section C Invoice Information:

Attention: **Jason Stuckey**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project Manager:
Profile #:

Page: **3** of **7**

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED		PRESERVATIVES		Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.								
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G213																															
2	G214																															
3	G215																															
4	G216																															
5	G217																															
6	G218																															
7	G270			8-14-23	1345																											039
8	G271				1315																											040
9	G272				1411																											041
10	G273				1432																											042
11	G274				1200																											043
12	G275				024																											044
13	G275D				1120																											045
14	G276				1235																											046
15	G277				024																											047
16	G278																															

SAMPLER NAME AND SIGNATURE		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
PRINT Name of SAMPLER: Justin Lap		8-14	1810	Justin Lap	8/14	1810				
SIGNATURE of SAMPLER: Justin Lap				DATE Signed (MM/DD/YY): 8-14-23						

Page: 4 of 7

[illegible]

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	Justin G.P.				
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY): 8-14-23				

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Culp						
SIGNATURE of SAMPLER: [Signature]		DATE Signed (MM/DD/YY): 8-14-23				

CHAIN-OF-CUSTODY / Analytical Request Document

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

APPENDIX A.

Section A Required Client Information:

Company: **Vistra Corp**
 Address: **13498 E. 900th St**
 Email To: **Brian.Voelker@VistraCorp.com**
 Phone: **(217) 753-8911** Fax:
 Requested Due Date/TAT: **10 day**

Section B Required Project Information:

Report To: **Brian Voelker**
 Copy To: **Jason Stuckey**
 Purchase Order No.:
 Project Name:
 Project Number: **2285**

Section C Invoice Information:

Attention: **Jason Stuckey**
 Company Name: **Vistra Corp**
 Address: **see Section A**
 Quote Reference:
 Project Manager:
 Profile #:

Page: **7** of **7**

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED		PRESERVATIVES		Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.												
ITEM #	SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	MATRIX	CODE	DATE	TIME	SAMPLE TYPE (G=GRAB C=COMP)	# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)					
1	R205			8-14-23	1534																															
2	SG-02																																			
3	SG-03																																			
4	SG-04																																			
5	T127																																			
6	T128																																			
7	X201 (ANT-1042)			8-14-23	N/A																															
8	XPW01																																			
9	XPW02																																			
10	XSG-01																																			
11	Field Blank																																			
12	G102 Duplicate																																			
13	G200 Duplicate																																			
14	G273 Duplicate			8-14-23	1432																															
15	G301 Duplicate																																			
16	R201 Duplicate																																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0	J. Corp	8/10	8-14	Allen Corp	8/14	1810				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Justin Corp**

SIGNATURE of SAMPLER: **Justin Corp**

DATE Signed (MM/DD/YY): **8-14-23**

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

ASH-POND NO. 1
OF-257-101

Page: 2 of 7

Required Client Information:

Company:	Vistra Corp	
Address:	13498 E. 900th St	
Email To:	Brian.Voelker@VistraCorp.com	
Phone: (217) 753-8911	Fax:	
Requested Due Date/TAT:		10 day

Required Project Information:

Report To: Brian Voelker
Copy To: Jason Stuckey
Purchase Order No.:
Project Name:
Project Number: 2285

Invoice Information:

Attention:	Jason Stuckey
Company Name:	Vistra Corp
Address:	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER

13

13

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WT WASTE WATER VVV PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Y/N	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No. / Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																			
1		G125																																	
2		G126																																	
3		G151																																	
4		G152																																	
5		G153																																	
6		G154																																	
7		G155																																	
8		G200 insufficient water			8-15-23	OKY																													
9		G206																																	
10		G206D																																	
11		G207 OKY after reads			8-15-23	OKY																													
12		G208																																	
13		G209																																	
14		G210																																	
15		G211																																	
16		G212																																	

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE CONDITIONS

COF-23Q3 Rev 0

J. Colp

8-15

1518

[Signature]

8-15-23

1518

124

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY): 8-15-23

Temp in °C

Received on box (Y/N)

H2SO4
 (GON)
 8/15/23

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on (ice (Y/N))	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Justin Wold					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 8-15-23				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

COF-257-101
230718010

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 4 of 7	
Company: Visira Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Visira Corp			
Email To: Brian.Voelker@VisiraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)																Residual Chlorine (Y/N)	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																
COF-23Q3 Rev 0		J. Cold		8-15		1518				8-15-23		1518																		
<table border="1"> <tr> <td colspan="2">SAMPLER NAME AND SIGNATURE</td> <td rowspan="2">Temp in °C</td> <td rowspan="2">Received on ice (Y/N)</td> <td rowspan="2">Custody Sealed Cooler (Y/N)</td> <td rowspan="2">Samples Intact (Y/N)</td> </tr> <tr> <td>PRINT Name of SAMPLER:</td> <td>J. Cold</td> </tr> <tr> <td>SIGNATURE of SAMPLER:</td> <td></td> <td>DATE Signed (MM/DD/YY):</td> <td>8-15-23</td> <td colspan="3"></td> </tr> </table>																SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	PRINT Name of SAMPLER:	J. Cold	SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	8-15-23			
SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)																									
PRINT Name of SAMPLER:	J. Cold																													
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	8-15-23																											

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

COF-237810
25071810

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Visira Corp		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Visira Corp	
Email To: Brian.Voelker@VisiraCorp.com		Purchase Order No.:		Address: see Section A	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:	
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:	
				Profile #	

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location		IL
STATE:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE UP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)														Residual Chlorine (Y/N)	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0	J. Gelp	8-15	15:18	<i>[Signature]</i>	8-15-23	15:18				

* = hole in air lke

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	DATE Signed (MM/DD/YY):				
SIGNATURE of SAMPLER:	8-15-23				

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 7 of 7

ITEM #	Section D Required Client Information	Valid Matrix Codes <u>MATRIX CODE</u> DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL VAPE WP AIR AR OTHER OT TISSEUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Analysis Test ↓ Y/N ↓	Requested Analysis Filtered (Y/N)																
					DATE	TIME			Unpreserved	H₂SO₄	HNO₃	HCl	NaOH	Na₂S₂O₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102		COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
Project No / Lab I.D.																																	
1	R205																																
2	SG-02																																
3	SG-03																																
4	SG-04																																
5	T127																																
6	T128																																
7	X201 Filter in lab		F-15-23		1253																												
8	XPW01																																
9	XPW02																																
10	XSG-01																																
11	Field Blank		8-15-23		1035																												
12	G102 Duplicate																																
13	G200 Duplicate		8-15-23		OKY																												
14	G273 Duplicate																																
15	G301 Duplicate																																
16	R201 Duplicate		8-15-23		Dry																												
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																			
COF-23Q3 Rev 0		J. Colp		8-15		1518				8-15-23		1518																					

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Gelp					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 8-15-23				

Wai pH 90719
Date 9/19/23

September 28, 2023

Eric Bauer
Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
TEL: (414) 837-3607
FAX: (414) 837-3608



Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: COF-23Q3

WorkOrder: 23071811

Dear Eric Bauer:

TEKLAB, INC received 62 samples on 8/15/2023 3:18:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Sample Summary	60
Dates Report	62
Receiving Check List	66
Chain of Custody	Appended



Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Abbr Definition

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)



Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Qualifiers

- | | |
|---|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range |
| H - Holding times exceeded | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | T - TIC(Tentatively identified compound) |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Cooler Receipt Temp: 3.4 °C

An employee of Teklab, Inc. collected the sample(s).

G200, G275, G277, G279, and R201 could not be collected; the wells were dry. G1001 and G307 would not pump.

Ra226/228 were performed by Eurofins St. Louis. See attached report for results and QC.

This report was revised on September 28, 2023 per Eric Bauer's request. The reason for the revision is to correct collection times for G308, G402, G273 Duplicate and G301 Duplicate. Please replace report dated September 19, 2023 with this report. EAH 9/28/23

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-001 **Client Sample ID:** G151
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 10:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-002 **Client Sample ID:** G152
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 12:09

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-003 **Client Sample ID:** G153
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 11:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-004 **Client Sample ID:** G154
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 11:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-005 **Client Sample ID:** G155
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 10:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-007 **Client Sample ID:** G206
Matrix: GROUNDWATER **Collection Date:** 08/14/2023 11:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-008 **Client Sample ID:** G206D
Matrix: GROUNDWATER **Collection Date:** 08/14/2023 11:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-009 **Client Sample ID:** G209
Matrix: GROUNDWATER **Collection Date:** 08/14/2023 10:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-010 **Client Sample ID:** G212
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 15:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 11:58	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-011 **Client Sample ID:** G213
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 15:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:03	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-012 **Client Sample ID:** G215
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 14:16

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:03	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-013 **Client Sample ID:** G217
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 13:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:03	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-014 **Client Sample ID:** G218
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 12:53

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:04	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-015 **Client Sample ID:** G270
Matrix: GROUNDWATER **Collection Date:** 08/14/2023 13:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:04	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-016 **Client Sample ID:** G271
Matrix: GROUNDWATER **Collection Date:** 08/14/2023 13:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:04	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-017 **Client Sample ID:** G273
Matrix: GROUNDWATER **Collection Date:** 08/14/2023 14:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:04	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-019 **Client Sample ID:** G275D
Matrix: GROUNDWATER **Collection Date:** 08/14/2023 11:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:04	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-020 **Client Sample ID:** G276
Matrix: GROUNDWATER **Collection Date:** 08/14/2023 12:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:05	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-023 **Client Sample ID:** G280
Matrix: GROUNDWATER **Collection Date:** 08/14/2023 14:48

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:05	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-024 **Client Sample ID:** G281
Matrix: GROUNDWATER **Collection Date:** 08/14/2023 16:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/08/2023 12:05	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-025 **Client Sample ID:** G283
Matrix: GROUNDWATER **Collection Date:** 08/15/2023 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:36	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-026 **Client Sample ID:** G284
Matrix: GROUNDWATER **Collection Date:** 08/15/2023 10:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:36	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-027 **Client Sample ID:** G285
Matrix: GROUNDWATER **Collection Date:** 08/15/2023 11:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:37	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-028 **Client Sample ID:** G301
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 11:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:38	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-029 **Client Sample ID:** G302
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 11:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:38	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-030 **Client Sample ID:** G303
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 15:26

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:38	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-031 **Client Sample ID:** G305
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 12:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:38	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-032 **Client Sample ID:** G306
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 11:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:38	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-034 **Client Sample ID:** G307D
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 12:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:38	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-035 **Client Sample ID:** G308
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 13:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:39	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-036 **Client Sample ID:** G310
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 10:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:39	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-037 **Client Sample ID:** G312
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 12:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:39	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-038 **Client Sample ID:** G313
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 14:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:39	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-039 **Client Sample ID:** G314
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 14:33

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:39	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-040 **Client Sample ID:** G314D
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 14:53

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/07/2023 11:39	R336426



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-041 **Client Sample ID:** G315
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 11:29

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:56	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-042 **Client Sample ID:** G316
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 13:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:56	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-043 **Client Sample ID:** G401
Matrix: GROUNDWATER **Collection Date:** 08/11/2023 11:22

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:57	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-044 **Client Sample ID:** G402
Matrix: GROUNDWATER **Collection Date:** 08/11/2023 12:09

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:58	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-045 **Client Sample ID:** G403
Matrix: GROUNDWATER **Collection Date:** 08/11/2023 10:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:58	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-046 **Client Sample ID:** G404
Matrix: GROUNDWATER **Collection Date:** 08/14/2023 15:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:58	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-047 **Client Sample ID:** G405
Matrix: GROUNDWATER **Collection Date:** 08/11/2023 12:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:58	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-048 **Client Sample ID:** G406
Matrix: GROUNDWATER **Collection Date:** 08/11/2023 10:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 11:58	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-049 **Client Sample ID:** G407
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 14:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:03	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-050 **Client Sample ID:** G410
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 14:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:03	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-051 **Client Sample ID:** G411
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 15:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:03	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-053 **Client Sample ID:** NE Riser
Matrix: LEACHATE **Collection Date:** 08/15/2023 13:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:03	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-055 **Client Sample ID:** X201
Matrix: LEACHATE **Collection Date:** 08/15/2023 12:53

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:03	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-056 **Client Sample ID:** XPW01
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 13:22

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:03	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-057 **Client Sample ID:** XPW02
Matrix: GROUNDWATER **Collection Date:** 08/10/2023 13:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:04	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-058 **Client Sample ID:** Field Blank
Matrix: AQUEOUS **Collection Date:** 08/15/2023 10:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:04	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-060 **Client Sample ID:** G273 Duplicate
Matrix: GROUNDWATER **Collection Date:** 08/14/2023 14:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:04	R336553



Client: Ramboll **Work Order:** 23071811
Client Project: COF-23Q3 **Report Date:** 28-Sep-23
Lab ID: 23071811-061 **Client Sample ID:** G301 Duplicate
Matrix: GROUNDWATER **Collection Date:** 08/09/2023 11:11

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		See Attached		1	09/11/2023 12:04	R336553



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23071811-001	G151	Groundwater	1	08/10/2023 10:10
23071811-002	G152	Groundwater	1	08/10/2023 12:09
23071811-003	G153	Groundwater	1	08/10/2023 11:38
23071811-004	G154	Groundwater	1	08/10/2023 11:13
23071811-005	G155	Groundwater	1	08/10/2023 10:46
23071811-006	G200	Groundwater	1	08/15/2023 0:00
23071811-007	G206	Groundwater	1	08/14/2023 11:52
23071811-008	G206D	Groundwater	1	08/14/2023 11:34
23071811-009	G209	Groundwater	1	08/14/2023 10:46
23071811-010	G212	Groundwater	1	08/10/2023 15:28
23071811-011	G213	Groundwater	1	08/10/2023 15:08
23071811-012	G215	Groundwater	1	08/10/2023 14:16
23071811-013	G217	Groundwater	1	08/10/2023 13:25
23071811-014	G218	Groundwater	1	08/10/2023 12:53
23071811-015	G270	Groundwater	1	08/14/2023 13:45
23071811-016	G271	Groundwater	1	08/14/2023 13:15
23071811-017	G273	Groundwater	1	08/14/2023 14:32
23071811-018	G275	Groundwater	1	
23071811-019	G275D	Groundwater	1	08/14/2023 11:20
23071811-020	G276	Groundwater	1	08/14/2023 12:35
23071811-021	G277	Groundwater	1	
23071811-022	G279	Groundwater	1	
23071811-023	G280	Groundwater	1	08/14/2023 14:48
23071811-024	G281	Groundwater	1	08/14/2023 16:06
23071811-025	G283	Groundwater	1	08/15/2023 11:45
23071811-026	G284	Groundwater	1	08/15/2023 10:10
23071811-027	G285	Groundwater	1	08/15/2023 11:04
23071811-028	G301	Groundwater	1	08/09/2023 11:13
23071811-029	G302	Groundwater	1	08/09/2023 11:55
23071811-030	G303	Groundwater	1	08/09/2023 15:26
23071811-031	G305	Groundwater	1	08/10/2023 12:36
23071811-032	G306	Groundwater	1	08/10/2023 11:01
23071811-033	G307	Groundwater	1	08/10/2023 0:00
23071811-034	G307D	Groundwater	1	08/10/2023 12:12
23071811-035	G308	Groundwater	1	08/10/2023 13:00
23071811-036	G310	Groundwater	1	08/09/2023 10:36
23071811-037	G312	Groundwater	1	08/09/2023 12:28
23071811-038	G313	Groundwater	1	08/09/2023 14:12
23071811-039	G314	Groundwater	1	08/09/2023 14:33



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23071811-040	G314D	Groundwater	1	08/09/2023 14:53
23071811-041	G315	Groundwater	1	08/10/2023 11:29
23071811-042	G316	Groundwater	1	08/09/2023 13:43
23071811-043	G401	Groundwater	1	08/11/2023 11:22
23071811-044	G402	Groundwater	1	08/11/2023 12:09
23071811-045	G403	Groundwater	1	08/11/2023 10:51
23071811-046	G404	Groundwater	1	08/14/2023 15:43
23071811-047	G405	Groundwater	1	08/11/2023 12:41
23071811-048	G406	Groundwater	1	08/11/2023 10:13
23071811-049	G407	Groundwater	1	08/10/2023 14:32
23071811-050	G410	Groundwater	1	08/10/2023 14:58
23071811-051	G411	Groundwater	1	08/10/2023 15:24
23071811-052	G1001	Groundwater	1	08/15/2023 0:00
23071811-053	NE Riser	Leachate	1	08/15/2023 13:12
23071811-054	R201	Groundwater	1	08/15/2023 0:00
23071811-055	X201	Leachate	1	08/15/2023 12:53
23071811-056	XPW01	Groundwater	1	08/10/2023 13:22
23071811-057	XPW02	Groundwater	1	08/10/2023 13:45
23071811-058	Field Blank	Aqueous	1	08/15/2023 10:35
23071811-059	G200 Duplicate	Groundwater	1	08/15/2023 0:00
23071811-060	G273 Duplicate	Groundwater	1	08/14/2023 14:32
23071811-061	G301 Duplicate	Groundwater	1	08/09/2023 11:11
23071811-062	R201 Duplicate	Groundwater	1	08/15/2023 0:00



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
23071811-001A	G151	08/10/2023 10:10	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/08/2023 11:58
23071811-002A	G152	08/10/2023 12:09	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/08/2023 11:58
23071811-003A	G153	08/10/2023 11:38	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/08/2023 11:58
23071811-004A	G154	08/10/2023 11:13	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/08/2023 11:58
23071811-005A	G155	08/10/2023 10:46	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/08/2023 11:58
23071811-007A	G206	08/14/2023 11:52	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/08/2023 11:58
23071811-008A	G206D	08/14/2023 11:34	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/08/2023 11:58
23071811-009A	G209	08/14/2023 10:46	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/08/2023 11:58
23071811-010A	G212	08/10/2023 15:28	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/08/2023 11:58
23071811-011A	G213	08/10/2023 15:08	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/08/2023 12:03
23071811-012A	G215	08/10/2023 14:16	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/08/2023 12:03
23071811-013A	G217	08/10/2023 13:25	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/08/2023 12:03
23071811-014A	G218	08/10/2023 12:53	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/08/2023 12:04
23071811-015A	G270	08/14/2023 13:45	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/08/2023 12:04
23071811-016A	G271	08/14/2023 13:15	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/08/2023 12:04
23071811-017A	G273	08/14/2023 14:32	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/08/2023 12:04
23071811-019A	G275D	08/14/2023 11:20	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/08/2023 12:04
23071811-020A	G276	08/14/2023 12:35	08/14/2023 18:10		



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Test Name				
	See Attached for Subcontracting Analysis				09/08/2023 12:05
23071811-023A	G280	08/14/2023 14:48	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/08/2023 12:05
23071811-024A	G281	08/14/2023 16:06	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/08/2023 12:05
23071811-025A	G283	08/15/2023 11:45	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/07/2023 11:36
23071811-026A	G284	08/15/2023 10:10	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/07/2023 11:36
23071811-027A	G285	08/15/2023 11:04	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/07/2023 11:37
23071811-028A	G301	08/09/2023 11:13	08/09/2023 17:52		
	See Attached for Subcontracting Analysis				09/07/2023 11:38
23071811-029A	G302	08/09/2023 11:55	08/09/2023 17:52		
	See Attached for Subcontracting Analysis				09/07/2023 11:38
23071811-030A	G303	08/09/2023 15:26	08/09/2023 17:52		
	See Attached for Subcontracting Analysis				09/07/2023 11:38
23071811-031A	G305	08/10/2023 12:36	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/07/2023 11:38
23071811-032A	G306	08/10/2023 11:01	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/07/2023 11:38
23071811-034A	G307D	08/10/2023 12:12	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/07/2023 11:38
23071811-035A	G308	08/10/2023 13:00	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/07/2023 11:39
23071811-036A	G310	08/09/2023 10:36	08/09/2023 17:52		
	See Attached for Subcontracting Analysis				09/07/2023 11:39
23071811-037A	G312	08/09/2023 12:28	08/09/2023 17:52		
	See Attached for Subcontracting Analysis				09/07/2023 11:39
23071811-038A	G313	08/09/2023 14:12	08/09/2023 17:52		
	See Attached for Subcontracting Analysis				09/07/2023 11:39
23071811-039A	G314	08/09/2023 14:33	08/09/2023 17:52		
	See Attached for Subcontracting Analysis				09/07/2023 11:39
23071811-040A	G314D	08/09/2023 14:53	08/09/2023 17:52		
	See Attached for Subcontracting Analysis				09/07/2023 11:39



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
23071811-041A	G315	08/10/2023 11:29	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/11/2023 11:56
23071811-042A	G316	08/09/2023 13:43	08/09/2023 17:52		
	See Attached for Subcontracting Analysis				09/11/2023 11:56
23071811-043A	G401	08/11/2023 11:22	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 11:57
23071811-044A	G402	08/11/2023 12:09	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 11:58
23071811-045A	G403	08/11/2023 10:51	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 11:58
23071811-046A	G404	08/14/2023 15:43	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/11/2023 11:58
23071811-047A	G405	08/11/2023 12:41	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 11:58
23071811-048A	G406	08/11/2023 10:13	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 11:58
23071811-049A	G407	08/10/2023 14:32	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/11/2023 12:03
23071811-050A	G410	08/10/2023 14:58	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/11/2023 12:03
23071811-051A	G411	08/10/2023 15:24	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/11/2023 12:03
23071811-053A	NE Riser	08/15/2023 13:12	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 12:03
23071811-055A	X201	08/15/2023 12:53	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 12:03
23071811-056A	XPW01	08/10/2023 13:22	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/11/2023 12:03
23071811-057A	XPW02	08/10/2023 13:45	08/10/2023 17:30		
	See Attached for Subcontracting Analysis				09/11/2023 12:04
23071811-058A	Field Blank	08/15/2023 10:35	08/15/2023 15:18		
	See Attached for Subcontracting Analysis				09/11/2023 12:04
23071811-060A	G273 Duplicate	08/14/2023 14:32	08/14/2023 18:10		
	See Attached for Subcontracting Analysis				09/11/2023 12:04
23071811-061A	G301 Duplicate	08/09/2023 11:11	08/09/2023 17:52		



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	See Attached for Subcontracting Analysis				09/11/2023 12:04



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 23071811

Client Project: COF-23Q3

Report Date: 28-Sep-23

Carrier: Justin Colp

Received By: ANC

Completed by:

On:

10-Aug-23

Amber Dilallo

Reviewed by:

On:

15-Aug-23

Ellie Hopkins

Pages to follow:

Chain of custody

24

Extra pages included

85

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 3.4

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☐

NA ☒

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☒

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

Additional Nitric Acid (92447) was needed upon arrival at the laboratory for G301, G302, G303, G314, G314D and G316. - amberdilallo - 8/10/2023 10:56:36 AM

pH strip #90719. - amberdilallo - 8/10/2023 10:57:20 AM

Additional Nitric Acid (92447) was needed upon arrival at the laboratory for G153, G155, G305, G308 and G407. - amberdilallo - 8/11/2023 9:43:53 AM

pH strip #90719. - amberdilallo - 8/11/2023 9:44:25 AM

Samples collected on 8/10/23 were delivered to the laboratory on 8/10/23 at 1730 (on ice 2.6C - LTG5). AMD/ERH 8/10/23

Samples collected on 8/14/23 were delivered to the laboratory on 8/14/23 at 1810 (on ice 5.8C - LTG5). ANC/ERH 8/15/23

pH strip #90719. - amberdilallo - 8/15/2023 3:54:51 PM

Samples collected on 8/15/23 were delivered to the laboratory on 8/15/23 at 1518 (on ice 12.4C - LTG1). TM/ERH 8/10/23

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 7

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)				
1		G101			8-9-23	1451																														
2		G102			8-9-23	1507																														
3		G103																																		
4		G105																																		
5		G106																																		
6		G107																																		
7		G108			8-9-23	0948																														
8		G109			8-9-23	1010																														
9		G110			8-9-23	1028																														
10		G111				1047																														
11		G119				1132																														
12		G120				1149																														
13		G121				1214																														
14		G122				1237																														
15		G123				1257																														
16		G124				1313																														
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																							
COF-23Q3 Rev 0 Ra226/228, only.			J. GIP			8-9	1752	Allison Ceder			8/9	1752																								

SAMPLER NAME AND SIGNATURE		Temp. in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Init'd (Y/N)
PRINT Name of SAMPLER:	Justin Cole				
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY): 8-9-23				

Added HNO_3 (92447) to G301, G302, G303, G314,
G314b & G316. pH $\checkmark$ 90719. Gms 8/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

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23091811

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 2 of 7	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Project Reference:		Site Location STATE:	
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:		IL	
				Profile #:			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE GROUNDWATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)														Residual Chlorine (Y/N)	Project No. / Lab I.D.	
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104			COF-WPCP-108
1	G125				8-4-23	1327																											
2	G126				8-4-23	1401																											
3	G151							2																									23071811-001
4	G152							2																									002
5	G153							2																									003
6	G154							2																									004
7	G155							2																									005
8	G200							2																									006
9	G206							2																									007
10	G206D							2																									008
11	G207																																
12	G208																																
13	G209							2																									009
14	G210																																
15	G211																																
16	G212							2																									010

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0		J. Gp		8-9	1752	[Signature]		8/9	1752	Y N			
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Jason Gp SIGNATURE of SAMPLER: [Signature]										DATE Signed (MM/DD/YY): 8-9-23 Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)			

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ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL VAPE VP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No / Lab I.D.				
					DATE	TIME			Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104			COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
1	G279						2	2																			23071R11-022						
2	G280						2	2																			023						
3	G281						2	2																			024						
4	G283						2	2																			025						
5	G284						2	2																			026						
6	G285						2	2																			027						
7	G286																																
8	G287																																
9	G288																																
10	G301				8-9-23	1113	2	2																			028						
11	G302				8-9-23	1155	2	2																			029						
12	G303				8-9-23	1520	2	2																			030						
13	G305						2	2																			031						
14	G306						2	2																			032						
15	G307						2	2																			033						
16	G307D						2	2																			034						
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION					DATE	TIME	SAMPLE CONDITIONS																
COF-23Q3 Rev 0					J. Gelp			8-9	1752	Allison Cole					8/9	1752	Y N																
SAMPLER NAME AND SIGNATURE										Temp in °C					Received on Ice (Y/N)					Custody Sealed Cooler (Y/N)					Samples Intact (Y/N)								
PRINT Name of SAMPLER:										Justin Gelp																							
SIGNATURE of SAMPLER:										[Signature]										DATE Signed (MM/DD/YYYY): 8-9-23													

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ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)												Project No / Lab I.D.				
			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000		COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G308					2		2																				23071811-035			
2	G309					2		2																				036			
3	G310		8-9-23	1036		2		2																				037			
4	G312		8-9-23	1228		2		2																				038			
5	G313		8-9-23	1412		2		2																				039			
6	G314		8-9-23	1433		2		2																				040			
7	G314D		8-9-23	1453		2		2																				041			
8	G315					2		2																				042			
9	G316		8-9-23	1343		2		2																				043			
10	G317					2		2																				044			
11	G401					2		2																				045			
12	G402					2		2																				046			
13	G403					2		2																				047			
14	G404					2		2																				048			
15	G405					2		2																							
16	G406					2		2																							
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION						DATE	TIME	SAMPLE CONDITIONS																
COF-23Q3 Rev 0			J. Colp		8-9	1552	Allison Colp						8/9	1792	Y N																
SAMPLER NAME AND SIGNATURE																Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)												
PRINT Name of SAMPLER: Justin Colp																															
SIGNATURE of SAMPLER: [Signature]																															
DATE Signed (MM/DD/YY): 8-9-23																															

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

23071811

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 7 of 7	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location STATE: IL	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)										Project No / Lab I.D.						
							COLLECTED	MATRIX CODE	SAMPLE TYPE (G-GRAB C-COMP)	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103		COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	R205																																	
2	SG-02																																	
3	SG-03																																	
4	SG-04																																	
5	T127		8-9-23	1108																														
6	T128		8-9-23	1416																														
7	X201					2																												
8	XPW01					2																												
9	XPW02					2																												
10	XSG-01																																	
11	Field Blank					2																												
12	G102 Duplicate		8-9-23	1507																														
13	G200 Duplicate					2																												
14	G273 Duplicate					2																												
15	G301 Duplicate		8-9-23	1311		2																												
16	R201 Duplicate					2																												

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
COF-23Q3 Rev 0		J. Gp		8-9		1752		Allison Cole		8/9		1752		Y N	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on box (Y/N)	Custody Sealed Cooler (Y/N)	Samples Initialed (Y/N)
PRINT Name of SAMPLER:	Justin Gp				
SIGNATURE of SAMPLER:	Justin Gp	DATE Signed (MM/DD/YY):	8-9-23		

CHAIN-OF-CUSTODY / Analytical Request Document

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23079811
08/25/11

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 7	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Project Reference:		Site Location	
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:		STATE: IL	
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)														Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)		
1	G101																																	
2	G102																																	
3	G103					8-10-23	0823																											
4	G105						0859																											
5	G106						0916																											
6	G107						0943																											
7	G108																																	
8	G109																																	
9	G110																																	
10	G111																																	
11	G119																																	
12	G120																																	
13	G121																																	
14	G122																																	
15	G123																																	
16	G124																																	

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0		J. Glop		8-10	1730	Shirley D. Delle		8/10/23	1730	26	Y	N	Y
Ra226/228, only.													

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Justin Glop		DATE Signed (MM/DD/YYYY): 8-10-23	
SIGNATURE of SAMPLER: <i>[Signature]</i>			
Temp in °C		Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)
		Samples Intact (Y/N)	

HNO₃ (92447) added to G153, G155, G305, G308, G407 EPA 8/11/23
90719

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23071811

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 2 of 7	
Company: Visira Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Visira Corp			
Email To: Brian.Voelker@VisiraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.					
							COLLECTED	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104		COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G125																																	
2	G126																																	
3	G151		8-10-23	1010		2		2																									23071811-001	
4	G152			1209		2		2																									002	
5	G153			1138		2		2																									003	
6	G154			1113		2		2																									004	
7	G155			1046		2		2																									005	
8	G200					2		2																									006	
9	G206					2		2																									007	
10	G206D					2		2																									008	
11	G207																																	
12	G208																																	
13	G209					2		2																									009	
14	G210																																	
15	G211																																	
16	G212		8-10-23	1528		2		2																										010

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
COF-23Q3 Rev 0		J. Colp		8-10	1730	Dina D. Colp		8/10/23	1730	Y N	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>J. Colp</i> SIGNATURE of SAMPLER: <i>[Signature]</i>					
DATE Signed (MM/DD/YY): 8-10-23					

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230778911

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 3 of 7	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.			
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102		COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G213				8-10-23	1508		2																							23071811-011		
2	G214					1450		2																							012		
3	G215					1416		2																							013		
4	G216					1347		2																							014		
5	G217					1325		2																							015		
6	G218					1253		2																							016		
7	G270							2																							017		
8	G271							2																							018		
9	G272							2																							019		
10	G273							2																							020		
11	G274							2																							021		
12	G275							2																									
13	G275D							2																									
14	G276							2																									
15	G277							2																									
16	G278							2																									

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
COF-23Q3 Rev 0		J. Gelp		8-10	1730	[Signature]		8/10/23	1730	4 2	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					
		DATE Signed (MM/DD/YY):		8-10-23	

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23071811

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 4 of 7	
Company: Visira Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Visira Corp			
Email To: Brian.Voelker@VisiraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:		Site Location	
				Profile #:		STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.			
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Mehand	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102		COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G279							2	2																					23071811-022			
2	G280							2	2																					023			
3	G281							2	2																					024			
4	G283							2	2																					025			
5	G284							2	2																					026			
6	G285							2	2																					027			
7	G286																																
8	G287																																
9	G288																																
10	G301							2	2																					028			
11	G302							2	2																					029			
12	G303							2	2																					030			
13	G305				8-10-23	1236		2	2																					031			
14	G306					1101		2	2																					032			
15	G307 (AAT Pump)					NIA		2	2																					033			
16	G307D					1712		2	2																					034			

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
COF-23Q3 Rev 0		J. Colp		8-10		Bridget E. Jones		8/10/23	1730	Y N	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Colp					
SIGNATURE of SAMPLER: [Signature]					
DATE Signed (MM/DD/YY): 8-10-23					

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ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL VAPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.					
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000			COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1		G308			8-10-23	1308		2																										23071R11-035
2		G309						2																										036
3		G310						2																										237
4		G312						2																										038
5		G313						2																										039
6		G314						2																										040
7		G314D			8-10-23	1129		2																										041
8		G315						2																										042
9		G316						2																										
10		G317						2																										
11		G401						2																										043
12		G402						2																										044
13		G403						2																										045
14		G404						2																										046
15		G405						2																										047
16		G406						2																										048
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																				
COF-23Q3 Rev 0		J. Colp		8-10				Smile Adams		8/10/23		1730		Y N																				

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on (dd (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Justin Corp					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 8-10-23				

CHAIN-OF-CUSTODY / Analytical Request Document

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COF-257-1811
23071811

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 6 of 7	
Company: Visira Corp		Report To: Brian Voelker		Attention: Jason Stuckey			
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Visira Corp			
Email To: Brian.Voelker@VisiraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.				
							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104		COF-WPCP-106	Residual Chlorine (Y/N)		
1	G407		8-10-23	1432		2		2																									23071811-049
2	G410		↓	1458		2		2																								050	
3	G411		↓	1524		2		2																								051	
4	G1001					2		2																								052	
5	G1003																																
6	L203																																
7	MW03D																																
8	MW11D																																
9	MW11S																																
10	MW12D																																
11	MW16D																																
12	MW16S																																
13	MW20S																																
14	NE Riser					2		2																									053
15	R104		8-10-23	0840		2		2																									
16	R201					2		2																									054

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
COF-23Q3 Rev 0		J. Colp		8-10	1730	Gina Dales		8/10/23	1730	Y N	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on box (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Colp					
SIGNATURE of SAMPLER: [Signature]					
DATE Signed (MM/DD/YY): 8-10-23					

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[illegible]

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Init'd (Y/N)
PRINT Name of SAMPLER:	Justin Cap				
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY): 8-10-23				

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[illegible]

PH 90719
AC 8/15

DATE Signed
(MM/DD/YY):

Samples Interact
{Y/N}

Added HNO_3 (92447) to G270, G273, G275D, G276 on 8/15

ERH
8/15/23

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 4 of 7	
Company: <u>Vistra Corp</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: <u>IL</u> STATE: <u>IL</u>	
Address: <u>13498 E. 900th St</u>		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>			
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Address: <u>see Section A</u>			
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N ↑	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No./ Lab I.D.			
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000			COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0	J. Colp	8-14	1810	Allen Colp	8/14	1810				

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Justin Colp</u>							
SIGNATURE of SAMPLER: <u>[Signature]</u> DATE Signed (MM/DD/YY): <u>8-14-23</u>							

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Gop					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 8-14-23				

amples Interact
(Y/N)

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[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS												
COF-23Q3 Rev 0	J. Colp	8-15	1518	AK	8-15-23	1518	12-4												
							27.1												
<table border="1"> <tr> <th colspan="2">SAMPLER NAME AND SIGNATURE</th> <th rowspan="3">Temp in °C</th> <th rowspan="3">Received on Ice (Y/N)</th> <th rowspan="3">Custody Sealed Cooler (Y/N)</th> <th rowspan="3">Samples intact (Y/N)</th> </tr> <tr> <td colspan="2">PRINT Name of SAMPLER: John Colp</td> </tr> <tr> <td>SIGNATURE of SAMPLER: [Signature]</td> <td>DATE Signed (MM/DD/YY): 8-15-23</td> </tr> </table>							SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)	PRINT Name of SAMPLER: John Colp		SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 8-15-23			
SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)														
PRINT Name of SAMPLER: John Colp																			
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 8-15-23																		

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ITEM #	Section D Required Client Information		Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No. / Lab I.D.			
	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WPE AIR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000			COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
1		G213																															23071811-011		
2		G214																															012		
3		G215																															013		
4		G216																															014		
5		G217																															015		
6		G218																															016		
7		G270																															017		
8		G271																															018		
9		G272																															019		
10		G273																															020		
11		G274																															021		
12		G275																																	
13		G275D																																	
14		G276																																	
15		G277																																	
16		G278	inherent Water				8-15-23	DEU																											
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION			DATE		TIME		SAMPLE CONDITIONS																		
COF-23Q3 Rev 0			J. Glop			8-15		1518		[Signature]			8-15-23		1518																				
SAMPLER NAME AND SIGNATURE																Temp in °C		Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples Intact (Y/N)													
PRINT Name of SAMPLER: Justin Glop																																			
SIGNATURE of SAMPLER: [Signature]																																			
DATE Signed (MM/DD/YY): 8-15-23																																			

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Page: 4 of 7

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N ↓	Requested Analysis Filtered (Y/N)																Residual Chlorine (Y/N)	Project No./ Lab I.D.				
		DRINKING WATER DW	WATER WT			WASTE WATER WW	PRODUCT P					SOIL/SOLID SL	OIL OL	WIPE WP	AIR AR	OTHER OT	TISSUE TS	Unpreserved	H ₂ SO ₄		HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104			COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
		Analysis Test ↓	COF-257-101			COF-257-102	COF-257-103					COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000		COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106																			
1	G279																																				23071811-022					
2	G280																																			023						
3	G281																																			024						
4	G283					8-15-03			1145																											025						
5	G284					↓			1010																											026						
6	G285								1104																											027						
7	G286																																									
8	G287																																									
9	G288																																									
10	G301																																			028						
11	G302																																			029						
12	G303																																			030						
13	G305																																			031						
14	G306																																			032						
15	G307																																			033						
16	G307D																																			034						
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION				DATE		TIME		ACCEPTED BY / AFFILIATION				DATE		TIME		SAMPLE CONDITIONS																								
COF-23Q3 Rev 0		J. Colp				8-15		1518		[Signature]				8-15-23		1518																										
SAMPLER NAME AND SIGNATURE																Temp in °C				Received on box (Y/N)				Custody Sealed Cooler (Y/N)				Samples intact (Y/N)														
PRINT Name of SAMPLER:																																										
SIGNATURE of SAMPLER:																DATE Signed (MM/DD/YYYY):																										
Justin Colp																																										
[Signature]																8-15-23																										

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 6 of 7

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Ar the

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Justin Corp					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 8-15-23				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

23071811

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 7 of 7	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Project Manager:		Site Location	
				Profile #:		STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-257-105	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)				
1		R205																																		
2		SG-02																																		
3		SG-03																																		
4		SG-04																																		
5		T127																																		
6		T128																																		
7		X201 Filter in Lab			8-15-23	1253																														
8		XPW01																																		
9		XPW02																																		
10		XSG-01																																		
11		Field Blank			8-15-23	1035																														
12		G102 Duplicate																																		
13		G200 Duplicate			8-15-23	024																														
14		G273 Duplicate																																		
15		G301 Duplicate																																		
16		R201 Duplicate			8-15-23	024																														

TE 4mm 10/12/23
23071811-054055
056
057
058
059
060
061
062

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0		J. Colp		8-15	1518	[Signature]		8-15-23	1518				
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Colp													
SIGNATURE of SAMPLER: [Signature]													
DATE Signed (MM/DD/YY): 8-15-23													

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 9/15/2023 5:25:50 PM

JOB DESCRIPTION

Radium-226 and Radium-228
SDG NUMBER 23071811-1

JOB NUMBER

160-51097-1

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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9/15/2023 5:25:50 PM

Authorized for release by
Jayna Awalt, Project Manager II
Jayna.Awalt@et.eurofinsus.com
(314)298-8566

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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Case Narrative

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Job ID: 160-51097-1

Laboratory: Eurofins St. Louis

Narrative

Job Narrative 160-51097-1

Receipt

The samples were received on 8/16/2023 5:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved. The temperature of the cooler at receipt was 18.2° C.

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: 23071811-006A (160-51097-6), 23071811-018A (160-51097-18), 23071811-021A (160-51097-21), 23071811-022A (160-51097-22), 23071811-033A (160-51097-33), 23071811-052A (160-51097-52), 23071811-054A (160-51097-54), 23071811-059A (160-51097-59) and 23071811-062A (160-51097-62). The COC states that these samples were dry or couldn't be pumped.

RAD

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Method 904.0: Radium-228

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. 23071811-002A (160-51097-2), 23071811-005A (160-51097-5), 23071811-014A (160-51097-14) and 23071811-020A (160-51097-20)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice ☐ Preserved in: ☐ Lab ☐ Field

Teklab Inc

5445 Horseshoe Lake Road
Collinsville, IL 62234Cooler Temp:

Sampler: J. Riley/B. Gillihan/J. Colp

QC Level: 3

Project#

23071811

Contact:

Elizabeth Hurley

Email:

ehurley@teklabinc.com

Requested Due Date:

Standat TAT

Billing/PO: 34883

Phone: 618 344-1004 ext. 33

Comments: **Please issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-001A	8/10/23 10:10	HNO3	Groundwater
	23071811-002A	8/10/23 12:09	HNO3	Groundwater
	23071811-003A	8/10/23 11:38	HNO3	Groundwater
	23071811-004A	8/10/23 11:13	HNO3	Groundwater
	23071811-005A	8/10/23 10:46	HNO3	Groundwater
	23071811-006A	Dry	HNO3	Groundwater
	23071811-007A	8/14/23 11:52	HNO3	Groundwater
	23071811-008A	8/14/23 11:34	HNO3	Groundwater
	23071811-009A	8/14/23 10:46	HNO3	Groundwater
	23071811-010A	8/10/23 15:28	HNO3	Groundwater
	23071811-011A	8/10/23 15:08	HNO3	Groundwater



160-51097 Chain of Custody

*Relinquished By: *[Signature]* Date/Time: 8-16-23 11:30
Received By: *[Signature]* Date/Time: 8-16-23 4:20 PM
FEDER-SW 8/11/23
FEDER-SW 8/11/23
8/11/23 1715

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc

5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp:

Sampler: J. Riley/B. Gillihan/J. Colp

QC Level:

3

Project#

23071811

Contact:

Elizabeth Hurley

Email:

ehurley@teklabinc.com

Requested Due Date:

Standard TAT

Billing/PO:

Billing/PO: 34883

Phone: 618 344-1004 ext. 33

PLEASE NOTE:

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-012A	8/10/23 14:16	HNO3	Groundwater
	23071811-013A	8/10/23 13:25	HNO3	Groundwater
	23071811-014A	8/10/23 12:53	HNO3	Groundwater
	23071811-015A	8/14/23 1345	HNO3	Groundwater
	23071811-016A	8/14/23 1315	HNO3	Groundwater
	23071811-017A	8/14/23 1432	HNO3	Groundwater
	23071811-018A	DEY	HNO3	Groundwater
	23071811-019A	8/14/23 1120	HNO3	Groundwater
	23071811-020A	8/14/23 1235	HNO3	Groundwater
	23071811-021A	DEY	HNO3	Groundwater
	23071811-022A	DEY	HNO3	Groundwater

*Relinquished By

Date/Time

Received By:

1

Date/Time 00/06-23 06:20

6.20

Pg 4 of 6

Are the samples chilled? YES ☐ NO ☒

With: ☐ Ice ☐ Blue Ice

Preserved in: ☐ Lab ☐ Field

QC Level: 3

Comments:	Please issue reports and invoices via email only
	Please analyze for Radium 22/228 per standard GW methods.
	Changes to methods must be approved by Teklab, Inc.
	Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Phone: 618 344-1004 ext. 33

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-034A	8/10/23 12:12	HNO3	Groundwater
	23071811-035A	8/10/23 13:08	HNO3	Groundwater
	23071811-036A	8/9/23 1036	HNO3	Groundwater
	23071811-037A	8/9/23 1228	HNO3	Groundwater
	23071811-038A	8/9/23 1412	HNO3	Groundwater
	23071811-039A	8/9/23 1433	HNO3	Groundwater
	23071811-040A	8/9/23 1453	HNO3	Groundwater
	23071811-041A	8/10/23 11:29	HNO3	Groundwater
	23071811-042A	8/9/23 1343	HNO3	Groundwater
	23071811-043A	8/11/23 1122	HNO3	Groundwater
	23071811-044A	8/11/23 1204	HNO3	Groundwater

Date/Time

Date/Time
8-16-23 4:20
8-16-23 1715

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒

With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc

5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp:

J. Riley/B. Gillihan/J. Colp

QC Level: 3

Comments:	Please issue reports and invoices via email only
	Please analyze for Radium 22/228 per standard GW methods.
	Changes to methods must be approved by Teklab, Inc.
	Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project#	23071811
----------	----------

Contact: Elizabeth Hurley
Email: ehurley@teklabinc.com

Email:

Requested Due Date:	Standad TAT	Billing/PO:	34883
---------------------	-------------	-------------	-------

Phone: 618 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-045A	8/11/23 10:51	HNO3	Groundwater
	23071811-046A	8/14/23 15:43	HNO3	Groundwater
	23071811-047A	8/11/23 12:41	HNO3	Groundwater
	23071811-048A	8/11/23 10:13	HNO3	Groundwater
	23071811-049A	8/10/23 14:32	HNO3	Groundwater
	23071811-050A	8/10/23 14:58	HNO3	Groundwater
	23071811-051A	8/10/23 15:24	HNO3	Groundwater
	23071811-052A	Dry	HNO3	Groundwater
	23071811-053A	8/15/23 13:12	HNO3	Groundwater
	23071811-054A	Dry	HNO3	Groundwater
	23071811-055A	8/15/23 12:53	HNO3	Groundwater

*Relinquished Bv

Date/Time

Received By

Date/Time

De J

2.6

2.6

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-51097-1

SDG Number: 23071811-1

Login Number: 51097

List Number: 1

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Samples listed as Dry under Sample Date/Time were not received.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-51097-1
COP-25-10
SDG: 23071811-1

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency
None = None
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-51097-1	23071811-001A	Water	08/10/23 10:10	08/16/23 17:15
160-51097-2	23071811-002A	Water	08/10/23 12:09	08/16/23 17:15
160-51097-3	23071811-003A	Water	08/10/23 11:38	08/16/23 17:15
160-51097-4	23071811-004A	Water	08/10/23 11:13	08/16/23 17:15
160-51097-5	23071811-005A	Water	08/10/23 10:46	08/16/23 17:15
160-51097-7	23071811-007A	Water	08/14/23 11:52	08/16/23 17:15
160-51097-8	23071811-008A	Water	08/14/23 11:34	08/16/23 17:15
160-51097-9	23071811-009A	Water	08/14/23 10:46	08/16/23 17:15
160-51097-10	23071811-010A	Water	08/10/23 15:28	08/16/23 17:15
160-51097-11	23071811-011A	Water	08/10/23 15:08	08/16/23 17:15
160-51097-12	23071811-012A	Water	08/10/23 14:16	08/16/23 17:15
160-51097-13	23071811-013A	Water	08/10/23 13:25	08/16/23 17:15
160-51097-14	23071811-014A	Water	08/10/23 12:53	08/16/23 17:15
160-51097-15	23071811-015A	Water	08/14/23 13:45	08/16/23 17:15
160-51097-16	23071811-016A	Water	08/14/23 13:15	08/16/23 17:15
160-51097-17	23071811-017A	Water	08/14/23 14:32	08/16/23 17:15
160-51097-19	23071811-019A	Water	08/14/23 11:20	08/16/23 17:15
160-51097-20	23071811-020A	Water	08/14/23 12:35	08/16/23 17:15

Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Client Sample ID: 23071811-001A

Lab Sample ID: 160-51097-1

Date Collected: 08/10/23 10:10

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0896	U	0.0833	0.0837	1.00	0.127	pCi/L	08/22/23 09:46	09/13/23 21:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/22/23 09:46	09/13/23 21:42	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.890		0.408	0.416	1.00	0.538	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	84.9		30 - 110					08/22/23 09:48	09/08/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.980		0.416	0.424	5.00	0.538	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-002A

Lab Sample ID: 160-51097-2

Date Collected: 08/10/23 12:09

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.390		0.255	0.257	1.00	0.353	pCi/L	08/22/23 09:46	09/13/23 21:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.2		30 - 110					08/22/23 09:46	09/13/23 21:42	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.911	U G	0.885	0.889	1.00	1.41	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.2		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	82.6		30 - 110					08/22/23 09:48	09/08/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.30	U	0.921	0.925	5.00	1.41	pCi/L		09/15/23 15:57	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Client Sample ID: 23071811-003A

Lab Sample ID: 160-51097-3

Date Collected: 08/10/23 11:38

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.174	U	0.148	0.149	1.00	0.226	pCi/L	08/22/23 09:46	09/13/23 21:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		30 - 110					08/22/23 09:46	09/13/23 21:42	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0882	U	0.467	0.467	1.00	0.851	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	80.7		30 - 110					08/22/23 09:48	09/08/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.262	U	0.490	0.490	5.00	0.851	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-004A

Lab Sample ID: 160-51097-4

Date Collected: 08/10/23 11:13

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.206		0.111	0.113	1.00	0.143	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.134	U	0.376	0.376	1.00	0.659	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	83.4		30 - 110					08/22/23 09:48	09/08/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.339	U	0.392	0.393	5.00	0.659	pCi/L		09/15/23 15:57	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Client Sample ID: 23071811-005A

Lab Sample ID: 160-51097-5

Date Collected: 08/10/23 10:46

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.47		0.391	0.413	1.00	0.335	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.9		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.10	U G	0.906	0.911	1.00	1.41	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.9		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	84.1		30 - 110					08/22/23 09:48	09/08/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.57		0.987	1.00	5.00	1.41	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-007A

Lab Sample ID: 160-51097-7

Date Collected: 08/14/23 11:52

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.192		0.102	0.104	1.00	0.119	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.452	U	0.368	0.370	1.00	0.566	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	83.4		30 - 110					08/22/23 09:48	09/08/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.645		0.382	0.384	5.00	0.566	pCi/L		09/15/23 15:57	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Client Sample ID: 23071811-008A

Lab Sample ID: 160-51097-8

Date Collected: 08/14/23 11:34

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.334		0.126	0.130	1.00	0.125	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.535	U	0.394	0.397	1.00	0.601	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	84.1		30 - 110					08/22/23 09:48	09/08/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.870		0.414	0.418	5.00	0.601	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-009A

Lab Sample ID: 160-51097-9

Date Collected: 08/14/23 10:46

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0518	U	0.0700	0.0701	1.00	0.118	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.324	U	0.329	0.331	1.00	0.530	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	84.5		30 - 110					08/22/23 09:48	09/08/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.376	U	0.336	0.338	5.00	0.530	pCi/L		09/15/23 15:57	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Client Sample ID: 23071811-010A

Lab Sample ID: 160-51097-10

Date Collected: 08/10/23 15:28

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0256	U	0.0480	0.0480	1.00	0.121	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.408	U	0.362	0.364	1.00	0.570	pCi/L	08/22/23 09:48	09/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					08/22/23 09:48	09/08/23 11:58	1
Y Carrier	83.4		30 - 110					08/22/23 09:48	09/08/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.408	U	0.365	0.367	5.00	0.570	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-011A

Lab Sample ID: 160-51097-11

Date Collected: 08/10/23 15:08

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0681	U	0.0987	0.0989	1.00	0.168	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0868	U	0.317	0.317	1.00	0.568	pCi/L	08/22/23 09:48	09/08/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					08/22/23 09:48	09/08/23 12:03	1
Y Carrier	89.0		30 - 110					08/22/23 09:48	09/08/23 12:03	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.155	U	0.332	0.332	5.00	0.568	pCi/L		09/15/23 15:57	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Client Sample ID: 23071811-012A

Lab Sample ID: 160-51097-12

Date Collected: 08/10/23 14:16

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.170		0.0977	0.0989	1.00	0.125	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.480	U	0.365	0.368	1.00	0.558	pCi/L	08/22/23 09:48	09/08/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/23 09:48	09/08/23 12:03	1
Y Carrier	85.2		30 - 110					08/22/23 09:48	09/08/23 12:03	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.650		0.378	0.381	5.00	0.558	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-013A

Lab Sample ID: 160-51097-13

Date Collected: 08/10/23 13:25

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.410		0.192	0.196	1.00	0.228	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.4		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.397	U	0.525	0.526	1.00	0.878	pCi/L	08/22/23 09:48	09/08/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.4		30 - 110					08/22/23 09:48	09/08/23 12:03	1
Y Carrier	85.2		30 - 110					08/22/23 09:48	09/08/23 12:03	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.807	U	0.559	0.561	5.00	0.878	pCi/L		09/15/23 15:57	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Client Sample ID: 23071811-014A

Lab Sample ID: 160-51097-14

Date Collected: 08/10/23 12:53

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.297	U	0.298	0.299	1.00	0.468	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	30.3		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.17	U G	1.46	1.48	1.00	2.19	pCi/L	08/22/23 09:48	09/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	30.3		30 - 110					08/22/23 09:48	09/08/23 12:04	1
Y Carrier	89.7		30 - 110					08/22/23 09:48	09/08/23 12:04	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.46		1.49	1.51	5.00	2.19	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-015A

Lab Sample ID: 160-51097-15

Date Collected: 08/14/23 13:45

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0429	U	0.0929	0.0930	1.00	0.166	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.175	U	0.380	0.381	1.00	0.661	pCi/L	08/22/23 09:48	09/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					08/22/23 09:48	09/08/23 12:04	1
Y Carrier	83.0		30 - 110					08/22/23 09:48	09/08/23 12:04	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.217	U	0.391	0.392	5.00	0.661	pCi/L		09/15/23 15:57	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Client Sample ID: 23071811-016A

Lab Sample ID: 160-51097-16

Date Collected: 08/14/23 13:15

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0522	U	0.0851	0.0852	1.00	0.147	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.442	U	0.356	0.359	1.00	0.552	pCi/L	08/22/23 09:48	09/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/22/23 09:48	09/08/23 12:04	1
Y Carrier	87.9		30 - 110					08/22/23 09:48	09/08/23 12:04	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.495	U	0.366	0.369	5.00	0.552	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-017A

Lab Sample ID: 160-51097-17

Date Collected: 08/14/23 14:32

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0657	U	0.0835	0.0837	1.00	0.139	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.394	U	0.317	0.319	1.00	0.485	pCi/L	08/22/23 09:48	09/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					08/22/23 09:48	09/08/23 12:04	1
Y Carrier	86.0		30 - 110					08/22/23 09:48	09/08/23 12:04	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.460	U	0.328	0.330	5.00	0.485	pCi/L		09/15/23 15:57	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Client Sample ID: 23071811-019A

Lab Sample ID: 160-51097-19

Date Collected: 08/14/23 11:20

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.448		0.189	0.193	1.00	0.221	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.288	U	0.510	0.511	1.00	0.879	pCi/L	08/22/23 09:48	09/08/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		30 - 110					08/22/23 09:48	09/08/23 12:04	1
Y Carrier	83.0		30 - 110					08/22/23 09:48	09/08/23 12:04	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.735	U	0.544	0.546	5.00	0.879	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-020A

Lab Sample ID: 160-51097-20

Date Collected: 08/14/23 12:35

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.304		0.172	0.174	1.00	0.217	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.2		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00460	U G	0.562	0.562	1.00	1.06	pCi/L	08/22/23 09:48	09/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.2		30 - 110					08/22/23 09:48	09/08/23 12:05	1
Y Carrier	85.2		30 - 110					08/22/23 09:48	09/08/23 12:05	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.309	U	0.588	0.588	5.00	1.06	pCi/L		09/15/23 15:57	1

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QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

APPENDIX A.
Job ID: 160-51097-1
SDG: 23071811-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-624954/1-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624954

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03330	U	0.0668	0.0669	1.00	0.120	pCi/L	08/22/23 09:46	09/13/23 21:36	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		30 - 110					08/22/23 09:46	09/13/23 21:36	1

Lab Sample ID: LCS 160-624954/2-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624954

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	9.996		1.07	1.00	0.107	pCi/L	88	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	97.5		30 - 110							

Lab Sample ID: LCSD 160-624954/3-A
Matrix: Water
Analysis Batch: 627939

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624954

Analyte		Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226		11.3	10.90		1.16	1.00	0.133	pCi/L	96	75 - 125	0.41	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits									
Ba Carrier	94.2		30 - 110									

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-624955/1-A
Matrix: Water
Analysis Batch: 627240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624955

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2999	U	0.298	0.299	1.00	0.477	pCi/L	08/22/23 09:48	09/08/23 11:57	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		30 - 110					08/22/23 09:48	09/08/23 11:57	1
Y Carrier	86.4		30 - 110					08/22/23 09:48	09/08/23 11:57	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Job ID: 160-51097-1
SDG: 23071811-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-624955/2-A
Matrix: Water
Analysis Batch: 627240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624955

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228		7.89	8.160		1.15	1.00	0.448	pCi/L	103	75 - 125		
	LCS	LCS										
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	97.5		30 - 110									
Y Carrier	86.0		30 - 110									

Lab Sample ID: LCSD 160-624955/3-A
Matrix: Water
Analysis Batch: 627240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624955

Analyte		Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228		7.89	7.989		1.15	1.00	0.505	pCi/L	101	75 - 125	0.07	1
	LCSD	LCSD										
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	94.2		30 - 110									
Y Carrier	86.7		30 - 110									

QC Association Summary

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Rad

Prep Batch: 624954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-1	23071811-001A	Total/NA	Water	PrecSep-21	
160-51097-2	23071811-002A	Total/NA	Water	PrecSep-21	
160-51097-3	23071811-003A	Total/NA	Water	PrecSep-21	
160-51097-4	23071811-004A	Total/NA	Water	PrecSep-21	
160-51097-5	23071811-005A	Total/NA	Water	PrecSep-21	
160-51097-7	23071811-007A	Total/NA	Water	PrecSep-21	
160-51097-8	23071811-008A	Total/NA	Water	PrecSep-21	
160-51097-9	23071811-009A	Total/NA	Water	PrecSep-21	
160-51097-10	23071811-010A	Total/NA	Water	PrecSep-21	
160-51097-11	23071811-011A	Total/NA	Water	PrecSep-21	
160-51097-12	23071811-012A	Total/NA	Water	PrecSep-21	
160-51097-13	23071811-013A	Total/NA	Water	PrecSep-21	
160-51097-14	23071811-014A	Total/NA	Water	PrecSep-21	
160-51097-15	23071811-015A	Total/NA	Water	PrecSep-21	
160-51097-16	23071811-016A	Total/NA	Water	PrecSep-21	
160-51097-17	23071811-017A	Total/NA	Water	PrecSep-21	
160-51097-19	23071811-019A	Total/NA	Water	PrecSep-21	
160-51097-20	23071811-020A	Total/NA	Water	PrecSep-21	
MB 160-624954/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-624954/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-624954/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 624955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-1	23071811-001A	Total/NA	Water	PrecSep_0	
160-51097-2	23071811-002A	Total/NA	Water	PrecSep_0	
160-51097-3	23071811-003A	Total/NA	Water	PrecSep_0	
160-51097-4	23071811-004A	Total/NA	Water	PrecSep_0	
160-51097-5	23071811-005A	Total/NA	Water	PrecSep_0	
160-51097-7	23071811-007A	Total/NA	Water	PrecSep_0	
160-51097-8	23071811-008A	Total/NA	Water	PrecSep_0	
160-51097-9	23071811-009A	Total/NA	Water	PrecSep_0	
160-51097-10	23071811-010A	Total/NA	Water	PrecSep_0	
160-51097-11	23071811-011A	Total/NA	Water	PrecSep_0	
160-51097-12	23071811-012A	Total/NA	Water	PrecSep_0	
160-51097-13	23071811-013A	Total/NA	Water	PrecSep_0	
160-51097-14	23071811-014A	Total/NA	Water	PrecSep_0	
160-51097-15	23071811-015A	Total/NA	Water	PrecSep_0	
160-51097-16	23071811-016A	Total/NA	Water	PrecSep_0	
160-51097-17	23071811-017A	Total/NA	Water	PrecSep_0	
160-51097-19	23071811-019A	Total/NA	Water	PrecSep_0	
160-51097-20	23071811-020A	Total/NA	Water	PrecSep_0	
MB 160-624955/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-624955/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-624955/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba					
		(30-110)					
160-51097-1	23071811-001A	87.2					
160-51097-2	23071811-002A	72.2					
160-51097-3	23071811-003A	84.2					
160-51097-4	23071811-004A	95.0					
160-51097-5	23071811-005A	72.9					
160-51097-7	23071811-007A	83.0					
160-51097-8	23071811-008A	90.0					
160-51097-9	23071811-009A	89.2					
160-51097-10	23071811-010A	89.5					
160-51097-11	23071811-011A	90.5					
160-51097-12	23071811-012A	90.0					
160-51097-13	23071811-013A	75.4					
160-51097-14	23071811-014A	30.3					
160-51097-15	23071811-015A	92.5					
160-51097-16	23071811-016A	90.2					
160-51097-17	23071811-017A	93.5					
160-51097-19	23071811-019A	78.2					
160-51097-20	23071811-020A	63.2					
LCS 160-624954/2-A	Lab Control Sample	97.5					
LCSD 160-624954/3-A	Lab Control Sample Dup	94.2					
MB 160-624954/1-A	Method Blank	99.7					
Tracer/Carrier Legend							
Ba = Ba Carrier							

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba		Y			
		(30-110)		(30-110)			
160-51097-1	23071811-001A	87.2		84.9			
160-51097-2	23071811-002A	72.2		82.6			
160-51097-3	23071811-003A	84.2		80.7			
160-51097-4	23071811-004A	95.0		83.4			
160-51097-5	23071811-005A	72.9		84.1			
160-51097-7	23071811-007A	83.0		83.4			
160-51097-8	23071811-008A	90.0		84.1			
160-51097-9	23071811-009A	89.2		84.5			
160-51097-10	23071811-010A	89.5		83.4			
160-51097-11	23071811-011A	90.5		89.0			
160-51097-12	23071811-012A	90.0		85.2			
160-51097-13	23071811-013A	75.4		85.2			
160-51097-14	23071811-014A	30.3		89.7			
160-51097-15	23071811-015A	92.5		83.0			
160-51097-16	23071811-016A	90.2		87.9			
160-51097-17	23071811-017A	93.5		86.0			
160-51097-19	23071811-019A	78.2		83.0			
160-51097-20	23071811-020A	63.2		85.2			
LCS 160-624955/2-A	Lab Control Sample	97.5		86.0			

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Tracer/Carrier Summary

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
LCSD 160-624955/3-A	Lab Control Sample Dup	94.2	86.7
MB 160-624955/1-A	Method Blank	99.7	86.4
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc

5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 9/28/2023 8:46:37 AM Revision 1

JOB DESCRIPTION

Radium-226 and Radium-228
SDG NUMBER 23071811-2

JOB NUMBER

160-51097-2

Job Notes

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Authorization



Authorized for release by
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Revision 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Job ID: 160-51097-2

Laboratory: Eurofins St. Louis

Narrative

Job Narrative 160-51097-2

Revision

The report being provided is a revision of the original report sent on 9/15/2023. The report (revision 1) is being revised due to: Sample collection times have been updated per client request.

Receipt

The samples were received on 8/16/2023 5:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved. The temperature of the cooler at receipt was 18.2° C.

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: 23071811-006A (160-51097-6), 23071811-018A (160-51097-18), 23071811-021A (160-51097-21), 23071811-022A (160-51097-22), 23071811-033A (160-51097-33), 23071811-052A (160-51097-52), 23071811-054A (160-51097-54), 23071811-059A (160-51097-59) and 23071811-062A (160-51097-62). The COC states that these samples were dry or couldn't be pumped.

RAD

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Method 904.0: Radium-228

The Ra-228 laboratory control sample (LCS) associated with the following samples recovered at 129%: (LCS 160-624957/2-A). The limits in our LIMS system at (75-125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (63-154%) per method requirements. The LCS is within criteria and no further action is required.

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. 23071811-030A (160-51097-30) and 23071811-032A (160-51097-32)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Jayna Awalt

From: Elizabeth A. Hurley <EHurley@TekLabInc.com>
Sent: Thursday, September 28, 2023 8:11 AM
To: Jayna Awalt
Subject: Teklab WO# 23071811 - Revision Request

Categories: Super important

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Good morning, Jayna,

Teklab client has requested a revised report for WO# 23071811 to update the following collection times:

23071811-035 from 1308 to 1300
23071811-044 from 1204 to 1209
23071811-060 from 1332 to 1432
23071811-061 from 1311 to 1113

Thanks for your help.

Have a great day!

Elizabeth Hurley
Director of Customer Service



Teklab, Inc.
5445 Horseshoe Lake Road
Collinsville, IL 62234
Phone: (618) 344-1004 Ext. 33
Cell: (618) 791-8119
Fax: (618) 344-1005
E-mail: ehurley@teklabinc.com
www.teklabinc.com

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TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice ☐ Preserved in: ☐ Lab ☐ Field

Teklab Inc

5445 Horseshoe Lake Road
Collinsville, IL 62234Cooler Temp:

Sampler: J. Riley/B. Gillihan/J. Colp

QC Level: 3

Project#

23071811

Contact:

Elizabeth Hurley

Email:

ehurley@teklabinc.com

Requested Due Date:

Standat TAT

Billing/PO: 34883

Phone: 618 344-1004 ext. 33

Comments: **Please issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-001A	8/10/23 10:10	HNO3	Groundwater
	23071811-002A	8/10/23 12:09	HNO3	Groundwater
	23071811-003A	8/10/23 11:38	HNO3	Groundwater
	23071811-004A	8/10/23 11:13	HNO3	Groundwater
	23071811-005A	8/10/23 10:46	HNO3	Groundwater
	23071811-006A	Dry	HNO3	Groundwater
	23071811-007A	8/14/23 11:52	HNO3	Groundwater
	23071811-008A	8/14/23 11:34	HNO3	Groundwater
	23071811-009A	8/14/23 10:46	HNO3	Groundwater
	23071811-010A	8/10/23 15:28	HNO3	Groundwater
	23071811-011A	8/10/23 15:08	HNO3	Groundwater



160-51097 Chain of Custody

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8-16-23 11:30	<i>[Signature]</i>	8-16-23 4:20 PM
<i>[Signature]</i>	8-16-23 5:15 PM	<i>[Signature]</i>	8-16-23 1715

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Field ☐ | ☐ | ah

5445 Horseshoe Lake Road
Collinsville, IL 62234

23071811

beth Hurley

Email:

ehurley@teklabinc.com

Requested Due Date:

Billing/PO: 34883

Phone: 618 344-1004 ext. 33

PLEASE NOTE:

NE LAP accreditation is required on the requested analytes and must be documented as such on the final report, if your laboratory does not currently hold a NE LAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-012A	8/10/23 14:16	HNO3	Groundwater
	23071811-013A	8/10/23 13:25	HNO3	Groundwater
	23071811-014A	8/10/23 12:53	HNO3	Groundwater
	23071811-015A	8/14/23 1345	HNO3	Groundwater
	23071811-016A	8/14/23 1315	HNO3	Groundwater
	23071811-017A	8/14/23 1432	HNO3	Groundwater
	23071811-018A	DEY	HNO3	Groundwater
	23071811-019A	8/14/23 1120	HNO3	Groundwater
	23071811-020A	8/14/23 1235	HNO3	Groundwater
	23071811-021A	DEY	HNO3	Groundwater
	23071811-022A	DEY	HNO3	Groundwater

*Relinquished By

Date/Time

Received By _____

0.11

8:16:23 1630

11630
8:15 AM

Wapen

Date/Time 8-16-23 4:30

1715

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒

With: ☐ Ice ☐ Blue Ice

Preserved in: ☐ Lab ☐ Field

Teklab Inc

5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp:

Sampler: J. Riley/B. Gillihan/J. Colp

QC Level: 3

Comments: Please Issue reports and invoices via email only

Please analyze for Radium 22/228 per standard GW methods.

Changes to methods must be approved by Teklab, Inc.

Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project# 23071811

Contact: Elizabeth Hurley

Email: ehurley@teklabinc.com

Requested Due Date: Standad TAT Billing/PO:

Billing/PO: 34883

Phone: 618 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

[illegible]

*Relinquished By

Date/Time

Received By

Date/Time

4:30

Time 16:23

25

4:30

pg 4 of 9

Are the samples chilled? YES ☐ NO ☒

With: ☐ Ice ☐ Blue Ice

Preserved in: ☐ Lab ☐ Field

5445 Horseshoe Lake Road
Collinsville, IL 62234

J. Riley/B. Gillihan/J. Colp

Preserved in:	☐	Lab	☐	Field
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Comments:	Please Issue reports and invoices via email only
Please analyze for Radium 22/228 per standard GW methods.	

Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Billing/PO: 34883

Phone: 618 344-1004 ext. 33

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8-16-23 11:50	<i>[Signature]</i>	8-16-23
<i>Felix</i>	8-16-23 8:15pm	Sing Wapner	8-16-23
			1715

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒

With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc

5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp:

Sampler: J. Riley/B. Gillihan/J. Colp

QC Level: 3

Comments:	Please issue reports and invoices via email only
	Please analyze for Radium 22/228 per standard GW methods.
	Changes to methods must be approved by Teklab, Inc.
	Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project#	23071811
----------	----------

Contact:	Elizabeth Hurley	Email:	ehurley@teklabinc.com
Requested Due Date:	Standad TAT	Billing/PO:	34883

Phone: 618 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

[illegible]

Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8-11-23 1630	<i>[Signature]</i>	8-10-23 4:20
<i>[Signature]</i>	8-10-23	Sinner Wagner	8-10-23 1715

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-51097-2

SDG Number: 23071811-2

Login Number: 51097

List Number: 1

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Samples listed as Dry under Sample Date/Time were not received.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-51097-2
COP-25-10
SDG: 23071811-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency
None = None
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-51097-23	23071811-023A	Water	08/14/23 14:48	08/16/23 17:15
160-51097-24	23071811-024A	Water	08/14/23 16:06	08/16/23 17:15
160-51097-25	23071811-025A	Water	08/15/23 11:45	08/16/23 17:15
160-51097-26	23071811-026A	Water	08/15/23 10:10	08/16/23 17:15
160-51097-27	23071811-027A	Water	08/15/23 11:04	08/16/23 17:15
160-51097-28	23071811-028A	Water	08/09/23 11:13	08/16/23 17:15
160-51097-29	23071811-029A	Water	08/09/23 11:55	08/16/23 17:15
160-51097-30	23071811-030A	Water	08/09/23 15:26	08/16/23 17:15
160-51097-31	23071811-031A	Water	08/10/23 12:36	08/16/23 17:15
160-51097-32	23071811-032A	Water	08/10/23 11:01	08/16/23 17:15
160-51097-34	23071811-034A	Water	08/10/23 12:12	08/16/23 17:15
160-51097-35	23071811-035A	Water	08/10/23 13:00	08/16/23 17:15
160-51097-36	23071811-036A	Water	08/09/23 10:36	08/16/23 17:15
160-51097-37	23071811-037A	Water	08/09/23 12:28	08/16/23 17:15
160-51097-38	23071811-038A	Water	08/09/23 14:12	08/16/23 17:15
160-51097-39	23071811-039A	Water	08/09/23 14:33	08/16/23 17:15
160-51097-40	23071811-040A	Water	08/09/23 14:53	08/16/23 17:15

Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Client Sample ID: 23071811-023A

Lab Sample ID: 160-51097-23

Date Collected: 08/14/23 14:48

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0514	U	0.0719	0.0720	1.00	0.122	pCi/L	08/22/23 09:46	09/13/23 21:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					08/22/23 09:46	09/13/23 21:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.139	U	0.347	0.347	1.00	0.609	pCi/L	08/22/23 09:48	09/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					08/22/23 09:48	09/08/23 12:05	1
Y Carrier	85.6		30 - 110					08/22/23 09:48	09/08/23 12:05	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.190	U	0.354	0.354	5.00	0.609	pCi/L		09/15/23 15:57	1

Client Sample ID: 23071811-024A

Lab Sample ID: 160-51097-24

Date Collected: 08/14/23 16:06

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0608	U	0.0781	0.0783	1.00	0.130	pCi/L	08/22/23 09:46	09/13/23 21:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					08/22/23 09:46	09/13/23 21:44	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.607	U	0.423	0.426	1.00	0.645	pCi/L	08/22/23 09:48	09/08/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					08/22/23 09:48	09/08/23 12:05	1
Y Carrier	87.1		30 - 110					08/22/23 09:48	09/08/23 12:05	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.667		0.430	0.433	5.00	0.645	pCi/L		09/15/23 15:57	1

Eurofins St. Louis

Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Client Sample ID: 23071811-025A

Lab Sample ID: 160-51097-25

Date Collected: 08/15/23 11:45

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.365		0.118	0.123	1.00	0.0997	pCi/L	08/22/23 09:49	09/13/23 07:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					08/22/23 09:49	09/13/23 07:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.355	U	0.285	0.287	1.00	0.436	pCi/L	08/22/23 09:53	09/07/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					08/22/23 09:53	09/07/23 11:36	1
Y Carrier	87.9		30 - 110					08/22/23 09:53	09/07/23 11:36	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.719		0.308	0.312	5.00	0.436	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-026A

Lab Sample ID: 160-51097-26

Date Collected: 08/15/23 10:10

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0930	U	0.0737	0.0742	1.00	0.103	pCi/L	08/22/23 09:49	09/13/23 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		30 - 110					08/22/23 09:49	09/13/23 07:26	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.473	U	0.337	0.340	1.00	0.508	pCi/L	08/22/23 09:53	09/07/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		30 - 110					08/22/23 09:53	09/07/23 11:36	1
Y Carrier	87.5		30 - 110					08/22/23 09:53	09/07/23 11:36	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.566		0.345	0.348	5.00	0.508	pCi/L		09/15/23 15:50	1

Eurofins St. Louis

Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Client Sample ID: 23071811-027A

Lab Sample ID: 160-51097-27

Date Collected: 08/15/23 11:04

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.379		0.142	0.146	1.00	0.126	pCi/L	08/22/23 09:49	09/13/23 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					08/22/23 09:49	09/13/23 07:26	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.01		0.599	0.627	1.00	0.671	pCi/L	08/22/23 09:53	09/07/23 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					08/22/23 09:53	09/07/23 11:37	1
Y Carrier	86.7		30 - 110					08/22/23 09:53	09/07/23 11:37	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.39		0.616	0.644	5.00	0.671	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-028A

Lab Sample ID: 160-51097-28

Date Collected: 08/09/23 11:13

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0854	U	0.0897	0.0900	1.00	0.140	pCi/L	08/22/23 09:49	09/13/23 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/22/23 09:49	09/13/23 07:26	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.940		0.528	0.535	1.00	0.763	pCi/L	08/22/23 09:53	09/07/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/22/23 09:53	09/07/23 11:38	1
Y Carrier	86.7		30 - 110					08/22/23 09:53	09/07/23 11:38	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.03		0.536	0.543	5.00	0.763	pCi/L		09/15/23 15:50	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Client Sample ID: 23071811-029A

Lab Sample ID: 160-51097-29

Date Collected: 08/09/23 11:55

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0958	U	0.0837	0.0842	1.00	0.126	pCi/L	08/22/23 09:49	09/13/23 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:49	09/13/23 07:26	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.827		0.441	0.447	1.00	0.635	pCi/L	08/22/23 09:53	09/07/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:53	09/07/23 11:38	1
Y Carrier	84.1		30 - 110					08/22/23 09:53	09/07/23 11:38	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.923		0.449	0.455	5.00	0.635	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-030A

Lab Sample ID: 160-51097-30

Date Collected: 08/09/23 15:26

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.267		0.172	0.174	1.00	0.224	pCi/L	08/22/23 09:49	09/13/23 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/22/23 09:49	09/13/23 07:26	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.770	U G	0.833	0.836	1.00	1.36	pCi/L	08/22/23 09:53	09/07/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/22/23 09:53	09/07/23 11:38	1
Y Carrier	84.1		30 - 110					08/22/23 09:53	09/07/23 11:38	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.04	U	0.851	0.854	5.00	1.36	pCi/L		09/15/23 15:50	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Client Sample ID: 23071811-031A

Lab Sample ID: 160-51097-31

Date Collected: 08/10/23 12:36

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0173	U	0.0666	0.0666	1.00	0.127	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					08/22/23 09:49	09/13/23 07:33	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.532		0.330	0.334	1.00	0.480	pCi/L	08/22/23 09:53	09/07/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					08/22/23 09:53	09/07/23 11:38	1
Y Carrier	87.1		30 - 110					08/22/23 09:53	09/07/23 11:38	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.549		0.337	0.341	5.00	0.480	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-032A

Lab Sample ID: 160-51097-32

Date Collected: 08/10/23 11:01

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.425		0.278	0.280	1.00	0.370	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	53.1		30 - 110					08/22/23 09:49	09/13/23 07:33	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.51	G	1.58	1.64	1.00	1.97	pCi/L	08/22/23 09:53	09/07/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	53.1		30 - 110					08/22/23 09:53	09/07/23 11:38	1
Y Carrier	85.2		30 - 110					08/22/23 09:53	09/07/23 11:38	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	4.93		1.60	1.66	5.00	1.97	pCi/L		09/15/23 15:50	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Client Sample ID: 23071811-034A

Lab Sample ID: 160-51097-34

Date Collected: 08/10/23 12:12

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0678	U	0.0853	0.0855	1.00	0.141	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/23 09:49	09/13/23 07:33	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.350	U	0.335	0.337	1.00	0.535	pCi/L	08/22/23 09:53	09/07/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					08/22/23 09:53	09/07/23 11:38	1
Y Carrier	84.9		30 - 110					08/22/23 09:53	09/07/23 11:38	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.417	U	0.346	0.348	5.00	0.535	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-035A

Lab Sample ID: 160-51097-35

Date Collected: 08/10/23 13:00

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00179	U	0.0775	0.0775	1.00	0.154	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:49	09/13/23 07:33	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.215	U	0.336	0.337	1.00	0.572	pCi/L	08/22/23 09:53	09/07/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1
Y Carrier	83.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.217	U	0.345	0.346	5.00	0.572	pCi/L		09/15/23 15:50	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Client Sample ID: 23071811-036A

Lab Sample ID: 160-51097-36

Date Collected: 08/09/23 10:36

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00267	U	0.0722	0.0722	1.00	0.144	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:49	09/13/23 07:33	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.404	U	0.354	0.356	1.00	0.557	pCi/L	08/22/23 09:53	09/07/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1
Y Carrier	86.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.407	U	0.361	0.363	5.00	0.557	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-037A

Lab Sample ID: 160-51097-37

Date Collected: 08/09/23 12:28

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0401	U	0.0767	0.0768	1.00	0.136	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/22/23 09:49	09/13/23 07:33	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.776		0.397	0.403	1.00	0.544	pCi/L	08/22/23 09:53	09/07/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1
Y Carrier	79.3		30 - 110					08/22/23 09:53	09/07/23 11:39	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.816		0.404	0.410	5.00	0.544	pCi/L		09/15/23 15:50	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Client Sample ID: 23071811-038A

Lab Sample ID: 160-51097-38

Date Collected: 08/09/23 14:12

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0572	U	0.0645	0.0647	1.00	0.103	pCi/L	08/22/23 09:49	09/13/23 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		30 - 110					08/22/23 09:49	09/13/23 07:33	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.569		0.354	0.358	1.00	0.519	pCi/L	08/22/23 09:53	09/07/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		30 - 110					08/22/23 09:53	09/07/23 11:39	1
Y Carrier	84.9		30 - 110					08/22/23 09:53	09/07/23 11:39	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.627		0.360	0.364	5.00	0.519	pCi/L		09/15/23 15:50	1

Client Sample ID: 23071811-039A

Lab Sample ID: 160-51097-39

Date Collected: 08/09/23 14:33

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.259		0.109	0.112	1.00	0.116	pCi/L	08/22/23 09:49	09/13/23 07:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					08/22/23 09:49	09/13/23 07:34	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.940		0.393	0.403	1.00	0.503	pCi/L	08/22/23 09:53	09/07/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1
Y Carrier	84.5		30 - 110					08/22/23 09:53	09/07/23 11:39	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.20		0.408	0.418	5.00	0.503	pCi/L		09/15/23 15:50	1

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Client Sample Results

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Client Sample ID: 23071811-040A

Lab Sample ID: 160-51097-40

Date Collected: 08/09/23 14:53

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.635		0.186	0.194	1.00	0.150	pCi/L	08/22/23 09:49	09/13/23 07:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:49	09/13/23 07:34	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.961		0.488	0.496	1.00	0.663	pCi/L	08/22/23 09:53	09/07/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					08/22/23 09:53	09/07/23 11:39	1
Y Carrier	84.5		30 - 110					08/22/23 09:53	09/07/23 11:39	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.60		0.522	0.533	5.00	0.663	pCi/L		09/15/23 15:50	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Job ID: 160-51097-2
SDG: 23071811-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-624954/1-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624954

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03330	U	0.0668	0.0669	1.00	0.120	pCi/L	08/22/23 09:46	09/13/23 21:36	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		30 - 110					08/22/23 09:46	09/13/23 21:36	1

Lab Sample ID: LCS 160-624954/2-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624954

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	9.996		1.07	1.00	0.107	pCi/L	88	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	97.5		30 - 110							

Lab Sample ID: LCSD 160-624954/3-A
Matrix: Water
Analysis Batch: 627939

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624954

Analyte		Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226		11.3	10.90		1.16	1.00	0.133	pCi/L	96	75 - 125	0.41	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits									
Ba Carrier	94.2		30 - 110									

Lab Sample ID: MB 160-624956/1-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624956

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.006388	U	0.0589	0.0589	1.00	0.125	pCi/L	08/22/23 09:49	09/13/23 07:23	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.9		30 - 110					08/22/23 09:49	09/13/23 07:23	1

Lab Sample ID: LCS 160-624956/2-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624956

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	10.65		1.15	1.00	0.115	pCi/L	94	75 - 125

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QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-51097-2
SDG: 23071811-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-624956/2-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624956

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	80.2		30 - 110

Lab Sample ID: LCSD 160-624956/3-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624956

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	11.3	11.13		1.20	1.00	0.130	pCi/L	98	75 - 125	0.20	1

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	76.9		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-624955/1-A
Matrix: Water
Analysis Batch: 627240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624955

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2999	U	0.298	0.299	1.00	0.477	pCi/L	08/22/23 09:48	09/08/23 11:57	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		30 - 110	08/22/23 09:48	09/08/23 11:57	1
Y Carrier	86.4		30 - 110	08/22/23 09:48	09/08/23 11:57	1

Lab Sample ID: LCS 160-624955/2-A
Matrix: Water
Analysis Batch: 627240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624955

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	7.89	8.160		1.15	1.00	0.448	pCi/L	103	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	97.5		30 - 110
Y Carrier	86.0		30 - 110

Lab Sample ID: LCSD 160-624955/3-A
Matrix: Water
Analysis Batch: 627240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624955

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	7.89	7.989		1.15	1.00	0.505	pCi/L	101	75 - 125	0.07	1

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QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Job ID: 160-51097-2
SDG: 23071811-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-624955/3-A
Matrix: Water
Analysis Batch: 627240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624955

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	94.2		30 - 110
Y Carrier	86.7		30 - 110

Lab Sample ID: MB 160-624957/1-A
Matrix: Water
Analysis Batch: 627054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624957

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.7864		0.510	0.515	1.00	0.758	pCi/L	08/22/23 09:53	09/07/23 11:35	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.9		30 - 110					08/22/23 09:53	09/07/23 11:35	1
Y Carrier	83.0		30 - 110					08/22/23 09:53	09/07/23 11:35	1

Lab Sample ID: LCSD 160-624957/3-A
Matrix: Water
Analysis Batch: 627054

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624957

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	7.90	8.607		1.29	1.00	0.620	pCi/L	109	75 - 125	0.52	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	76.9		30 - 110								
Y Carrier	84.5		30 - 110								

QC Association Summary

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Rad

Prep Batch: 624954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-23	23071811-023A	Total/NA	Water	PrecSep-21	
160-51097-24	23071811-024A	Total/NA	Water	PrecSep-21	
MB 160-624954/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-624954/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-624954/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 624955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-23	23071811-023A	Total/NA	Water	PrecSep_0	
160-51097-24	23071811-024A	Total/NA	Water	PrecSep_0	
MB 160-624955/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-624955/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-624955/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 624956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-25	23071811-025A	Total/NA	Water	PrecSep-21	
160-51097-26	23071811-026A	Total/NA	Water	PrecSep-21	
160-51097-27	23071811-027A	Total/NA	Water	PrecSep-21	
160-51097-28	23071811-028A	Total/NA	Water	PrecSep-21	
160-51097-29	23071811-029A	Total/NA	Water	PrecSep-21	
160-51097-30	23071811-030A	Total/NA	Water	PrecSep-21	
160-51097-31	23071811-031A	Total/NA	Water	PrecSep-21	
160-51097-32	23071811-032A	Total/NA	Water	PrecSep-21	
160-51097-34	23071811-034A	Total/NA	Water	PrecSep-21	
160-51097-35	23071811-035A	Total/NA	Water	PrecSep-21	
160-51097-36	23071811-036A	Total/NA	Water	PrecSep-21	
160-51097-37	23071811-037A	Total/NA	Water	PrecSep-21	
160-51097-38	23071811-038A	Total/NA	Water	PrecSep-21	
160-51097-39	23071811-039A	Total/NA	Water	PrecSep-21	
160-51097-40	23071811-040A	Total/NA	Water	PrecSep-21	
MB 160-624956/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-624956/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-624956/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 624957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-25	23071811-025A	Total/NA	Water	PrecSep_0	
160-51097-26	23071811-026A	Total/NA	Water	PrecSep_0	
160-51097-27	23071811-027A	Total/NA	Water	PrecSep_0	
160-51097-28	23071811-028A	Total/NA	Water	PrecSep_0	
160-51097-29	23071811-029A	Total/NA	Water	PrecSep_0	
160-51097-30	23071811-030A	Total/NA	Water	PrecSep_0	
160-51097-31	23071811-031A	Total/NA	Water	PrecSep_0	
160-51097-32	23071811-032A	Total/NA	Water	PrecSep_0	
160-51097-34	23071811-034A	Total/NA	Water	PrecSep_0	
160-51097-35	23071811-035A	Total/NA	Water	PrecSep_0	
160-51097-36	23071811-036A	Total/NA	Water	PrecSep_0	
160-51097-37	23071811-037A	Total/NA	Water	PrecSep_0	
160-51097-38	23071811-038A	Total/NA	Water	PrecSep_0	
160-51097-39	23071811-039A	Total/NA	Water	PrecSep_0	

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QC Association Summary

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Rad (Continued)

Prep Batch: 624957 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-40	23071811-040A	Total/NA	Water	PrecSep_0	
MB 160-624957/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCSD 160-624957/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
160-51097-23	23071811-023A	91.7	
160-51097-24	23071811-024A	91.5	
160-51097-25	23071811-025A	96.5	
160-51097-26	23071811-026A	92.2	
160-51097-27	23071811-027A	92.7	
160-51097-28	23071811-028A	92.0	
160-51097-29	23071811-029A	91.0	
160-51097-30	23071811-030A	90.2	
160-51097-31	23071811-031A	95.0	
160-51097-32	23071811-032A	53.1	
160-51097-34	23071811-034A	90.0	
160-51097-35	23071811-035A	91.0	
160-51097-36	23071811-036A	91.0	
160-51097-37	23071811-037A	92.0	
160-51097-38	23071811-038A	94.7	
160-51097-39	23071811-039A	94.0	
160-51097-40	23071811-040A	91.0	
LCS 160-624954/2-A	Lab Control Sample	97.5	
LCS 160-624956/2-A	Lab Control Sample	80.2	
LCSD 160-624954/3-A	Lab Control Sample Dup	94.2	
LCSD 160-624956/3-A	Lab Control Sample Dup	76.9	
MB 160-624954/1-A	Method Blank	99.7	
MB 160-624956/1-A	Method Blank	68.9	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
160-51097-23	23071811-023A	91.7	85.6
160-51097-24	23071811-024A	91.5	87.1
160-51097-25	23071811-025A	96.5	87.9
160-51097-26	23071811-026A	92.2	87.5
160-51097-27	23071811-027A	92.7	86.7
160-51097-28	23071811-028A	92.0	86.7
160-51097-29	23071811-029A	91.0	84.1
160-51097-30	23071811-030A	90.2	84.1
160-51097-31	23071811-031A	95.0	87.1
160-51097-32	23071811-032A	53.1	85.2
160-51097-34	23071811-034A	90.0	84.9
160-51097-35	23071811-035A	91.0	83.0
160-51097-36	23071811-036A	91.0	86.0
160-51097-37	23071811-037A	92.0	79.3
160-51097-38	23071811-038A	94.7	84.9
160-51097-39	23071811-039A	94.0	84.5
160-51097-40	23071811-040A	91.0	84.5

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Tracer/Carrier Summary

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
LCS 160-624955/2-A	Lab Control Sample	97.5	86.0
LCSD 160-624955/3-A	Lab Control Sample Dup	94.2	86.7
LCSD 160-624957/3-A	Lab Control Sample Dup	76.9	84.5
MB 160-624955/1-A	Method Blank	99.7	86.4
MB 160-624957/1-A	Method Blank	68.9	83.0

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc

5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 9/28/2023 8:55:05 AM Revision 1

JOB DESCRIPTION

Radium-226 and Radium-228
SDG NUMBER 23071811-3

JOB NUMBER

160-51097-3

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



Authorized for release by
Jayna Awalt, Project Manager II
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(314)298-8566

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Revision 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Job ID: 160-51097-3

Laboratory: Eurofins St. Louis

Narrative

Job Narrative 160-51097-3

Revision

The report being provided is a revision of the original report sent on 9/18/2023. The report (revision 1) is being revised due to: Sample collection times were changed per client request..

RECEIPT

The samples were received on 08/16/2023; the samples arrived in good condition, properly preserved. The temperature of the coolers at receipt was 18.2 C.

Receipt Exceptions:

The following samples were listed on the Chain of Custody (COC); however, no samples were received: 23071811-006A (160-51097-6), 23071811-018A (160-51097-18), 23071811-021A (160-51097-21), 23071811-022A (160-51097-22), 23071811-033A (160-51097-33), 23071811-052A (160-51097-52), 23071811-054A (160-51097-54), 23071811-059A (160-51097-59) and 23071811-062A (160-51097-62). The COC states that these samples were dry or couldn't be pumped. Samples were set to inactive.

RADIUM-226 (GFPC)

Samples 23071811-041A (160-51097-41), 23071811-042A (160-51097-42), 23071811-043A (160-51097-43), 23071811-044A (160-51097-44), 23071811-045A (160-51097-45), 23071811-046A (160-51097-46), 23071811-047A (160-51097-47), 23071811-048A (160-51097-48), 23071811-049A (160-51097-49), 23071811-050A (160-51097-50), 23071811-051A (160-51097-51), 23071811-053A (160-51097-53), 23071811-055A (160-51097-55), 23071811-056A (160-51097-56), 23071811-057A (160-51097-57), 23071811-058A (160-51097-58), 23071811-060A (160-51097-60) and 23071811-061A (160-51097-61) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were prepared on 08/23/2023 and analyzed on 09/14/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RADIUM-228 (GFPC)

Samples 23071811-041A (160-51097-41), 23071811-042A (160-51097-42), 23071811-043A (160-51097-43), 23071811-044A (160-51097-44), 23071811-045A (160-51097-45), 23071811-046A (160-51097-46), 23071811-047A (160-51097-47), 23071811-048A (160-51097-48), 23071811-049A (160-51097-49), 23071811-050A (160-51097-50), 23071811-051A (160-51097-51), 23071811-053A (160-51097-53), 23071811-055A (160-51097-55), 23071811-056A (160-51097-56), 23071811-057A (160-51097-57), 23071811-058A (160-51097-58), 23071811-060A (160-51097-60) and 23071811-061A (160-51097-61) were analyzed for Radium-228 (GFPC) in accordance with EPA 904. The samples were prepared on 08/23/2023 and analyzed on 09/11/2023.

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. 23071811-044A (160-51097-44) and 23071811-053A (160-51097-53)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

COMBINED RADIUM-226 AND RADIUM-228

Samples 23071811-041A (160-51097-41), 23071811-042A (160-51097-42), 23071811-043A (160-51097-43), 23071811-044A (160-51097-44), 23071811-045A (160-51097-45), 23071811-046A (160-51097-46), 23071811-047A (160-51097-47), 23071811-048A (160-51097-48), 23071811-049A (160-51097-49), 23071811-050A (160-51097-50), 23071811-051A (160-51097-51), 23071811-053A (160-51097-53), 23071811-055A (160-51097-55), 23071811-056A (160-51097-56), 23071811-057A (160-51097-57), 23071811-058A (160-51097-58), 23071811-060A (160-51097-60) and 23071811-061A (160-51097-61) were analyzed for Combined Radium-226 and Radium-228 in accordance with TAL-STL. The samples were analyzed on 09/18/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Jayna Awalt

From: Elizabeth A. Hurley <EHurley@TekLabInc.com>
Sent: Thursday, September 28, 2023 8:11 AM
To: Jayna Awalt
Subject: Teklab WO# 23071811 - Revision Request

Categories: Super important

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Good morning, Jayna,

Teklab client has requested a revised report for WO# 23071811 to update the following collection times:

23071811-035 from 1308 to 1300
23071811-044 from 1204 to 1209
23071811-060 from 1332 to 1432
23071811-061 from 1311 to 1113

Thanks for your help.

Have a great day!

Elizabeth Hurley
Director of Customer Service



Teklab, Inc.
5445 Horseshoe Lake Road
Collinsville, IL 62234
Phone: (618) 344-1004 Ext. 33
Cell: (618) 791-8119
Fax: (618) 344-1005
E-mail: ehurley@teklabinc.com
www.teklabinc.com

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TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice ☐ Preserved in: ☐ Lab ☐ Field

Teklab Inc

5445 Horseshoe Lake Road
Collinsville, IL 62234Cooler Temp:

Sampler: J. Riley/B. Gillihan/J. Colp

QC Level: 3

Project#

23071811

Contact:

Elizabeth Hurley

Email:

ehurley@teklabinc.com

Requested Due Date:

Standat TAT

Billing/PO: 34883

Phone: 618 344-1004 ext. 33

Comments: **Please issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-001A	8/10/23 10:10	HNO3	Groundwater
	23071811-002A	8/10/23 12:09	HNO3	Groundwater
	23071811-003A	8/10/23 11:38	HNO3	Groundwater
	23071811-004A	8/10/23 11:13	HNO3	Groundwater
	23071811-005A	8/10/23 10:46	HNO3	Groundwater
	23071811-006A	Dry	HNO3	Groundwater
	23071811-007A	8/14/23 11:52	HNO3	Groundwater
	23071811-008A	8/14/23 11:34	HNO3	Groundwater
	23071811-009A	8/14/23 10:46	HNO3	Groundwater
	23071811-010A	8/10/23 15:28	HNO3	Groundwater
	23071811-011A	8/10/23 15:08	HNO3	Groundwater



160-51097 Chain of Custody

*Relinquished By: *[Signature]* Date/Time: 8-16-23 11:30
Received By: *[Signature]* Date/Time: 8-16-23 4:20 PM
FEDER-SW 8/11/23
FEDER-SW 8/11/23
8/11/23 1715

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Field ☐ Lab ☐

5445 Horseshoe Lake Road
Collinsville, IL 62234

23071811

Elizabeth Hurley

ng/PO:

Billing/PO: 34883

Phone: 618 344-1004 ext. 33

PLEASE NOTE:

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-012A	8/10/23 14:16	HNO3	Groundwater
	23071811-013A	8/10/23 13:25	HNO3	Groundwater
	23071811-014A	8/10/23 12:53	HNO3	Groundwater
	23071811-015A	8/14/23 1345	HNO3	Groundwater
	23071811-016A	8/14/23 1315	HNO3	Groundwater
	23071811-017A	8/14/23 1432	HNO3	Groundwater
	23071811-018A	day	HNO3	Groundwater
	23071811-019A	8/14/23 1120	HNO3	Groundwater
	23071811-020A	8/14/23 1235	HNO3	Groundwater
	23071811-021A	day	HNO3	Groundwater
	23071811-022A	day	HNO3	Groundwater

*Relinquished By

Date/Time

Received By _____

0.11

500

8:16:23 11630

11630

Wagner

Date/Time 06/16-23 6:20

1715

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒

With: ☐ Ice ☐ Blue Ice

Preserved in: ☐ Lab ☐ Field

Teklab Inc

5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: [

Sampler: J. Riley/B. Gillihan/J. Colp

QC Level: 3

Comments: Please Issue reports and invoices via email only

Please analyze for Radium 22/228 per standard GW methods.

Changes to methods must be approved by Teklab, Inc.

Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project#	23071811
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Contact: Elizabeth Hurley

Email: ehurley@teklabinc.com

Requested Due Date:	Standad TAT	Billing/PO:
---------------------	-------------	-------------

Billing/PO: 34883

Phone: 618 344-1004 ext. 33

PLEASE NOTE:

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-023A	8/14/23 1448	HNO3	Groundwater
	23071811-024A	8/14/23 1606	HNO3	Groundwater
	23071811-025A	8/15/23 1145	HNO3	Groundwater
	23071811-026A	8/15/23 1010	HNO3	Groundwater
	23071811-027A	8/15/23 1104	HNO3	Groundwater
	23071811-028A	8/9/23 1113	HNO3	Groundwater
	23071811-029A	8/9/23 1155	HNO3	Groundwater
	23071811-030A	8/9/23 1526	HNO3	Groundwater
	23071811-031A	8/10/23 1236	HNO3	Groundwater
	23071811-032A	8/10/23 1101	HNO3	Groundwater
	23071811-033A	Can't Pump	HNO3	Groundwater

PLEASE NOTE:

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Ra226/228

*Relinquished By

Date/Time

Received By

Date/Time

4:30

Time 16:23

24

4:30

Pg 4 of 6

Are the samples chilled? YES ☐ NO ☒

With: ☐ Ice ☐ Blue Ice

Preserved in: ☐ Lab ☐ Field

QC Level: 3

Comments:	Please Issue reports and invoices via email only
	Please analyze for Radium 22/228 per standard GW methods.
	Changes to methods must be approved by Teklab, Inc.
	Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Phone: 618 344-1004 ext 33

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-034A	8/10/23 12:12	HNO3	Groundwater
	23071811-035A	8/10/23 13:08	HNO3	Groundwater
	23071811-036A	8/9/23 1036	HNO3	Groundwater
	23071811-037A	8/9/23 1228	HNO3	Groundwater
	23071811-038A	8/9/23 1412	HNO3	Groundwater
	23071811-039A	8/9/23 1433	HNO3	Groundwater
	23071811-040A	8/9/23 1453	HNO3	Groundwater
	23071811-041A	8/10/23 11:29	HNO3	Groundwater
	23071811-042A	8/9/23 1343	HNO3	Groundwater
	23071811-043A	8/11/23 1122	HNO3	Groundwater
	23071811-044A	8/11/23 1204	HNO3	Groundwater

Date/Time

Received By	Date / Time
Faraz	8-11-23 1:50
Faraz	8-16-23 5:15pm
Faraz	8-16-23 8:10
Faraz	8-16-23 17:15

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒

With: ☐ Ice ☐ Blue Ice

Preserved in: ☐ Lab ☐ Field

Teklab Inc

5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp:

Sampler: J. Riley/B. Gillihan/J. Colp

QC Level:

3

Comments:	Please issue reports and invoices via email only
	Please analyze for Radium 22/228 per standard GW methods.
	Changes to methods must be approved by Teklab, Inc.
	Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project# 23071811

Contact:	Elizabeth Hurley	Email:	ehurley@teklabinc.com
Requested Due Date:	Standad TAT	Billing/PO:	34883

Phone: 618 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	23071811-045A	8/11/23 10:51	HNO3	Groundwater
	23071811-046A	8/14/23 15:43	HNO3	Groundwater
	23071811-047A	8/11/23 12:41	HNO3	Groundwater
	23071811-048A	8/11/23 10:13	HNO3	Groundwater
	23071811-049A	8/10/23 14:32	HNO3	Groundwater
	23071811-050A	8/10/23 14:58	HNO3	Groundwater
	23071811-051A	8/10/23 15:24	HNO3	Groundwater
	23071811-052A	Dry	HNO3	Groundwater
	23071811-053A	8/15/23 13:12	HNO3	Groundwater
	23071811-054A	Dry	HNO3	Groundwater
	23071811-055A	8/15/23 12:53	HNO3	Groundwater

PLEASE NOTE:

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Ra226/228

Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8-11-23 1630	<i>[Signature]</i>	8-16-23 4:20
<i>[Signature]</i>	8-16-23	5:15 PM Simon Wagner	8/16/23 1715

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-51097-3

SDG Number: 23071811-3

Login Number: 51097

List Number: 1

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Samples listed as Dry under Sample Date/Time were not received.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-51097-3
COP-25-10
SDG: 23071811-3

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency
None = None
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-51097-41	23071811-041A	Water	08/10/23 11:29	08/16/23 17:15
160-51097-42	23071811-042A	Water	08/09/23 13:43	08/16/23 17:15
160-51097-43	23071811-043A	Water	08/11/23 11:22	08/16/23 17:15
160-51097-44	23071811-044A	Water	08/11/23 12:09	08/16/23 17:15
160-51097-45	23071811-045A	Water	08/11/23 10:51	08/16/23 17:15
160-51097-46	23071811-046A	Water	08/14/23 15:43	08/16/23 17:15
160-51097-47	23071811-047A	Water	08/11/23 12:41	08/16/23 17:15
160-51097-48	23071811-048A	Water	08/11/23 10:13	08/16/23 17:15
160-51097-49	23071811-049A	Water	08/10/23 14:32	08/16/23 17:15
160-51097-50	23071811-050A	Water	08/10/23 14:58	08/16/23 17:15
160-51097-51	23071811-051A	Water	08/10/23 15:24	08/16/23 17:15
160-51097-53	23071811-053A	Water	08/15/23 13:12	08/16/23 17:15
160-51097-55	23071811-055A	Water	08/15/23 12:53	08/16/23 17:15
160-51097-56	23071811-056A	Water	08/10/23 13:22	08/16/23 17:15
160-51097-57	23071811-057A	Water	08/10/23 13:45	08/16/23 17:15
160-51097-58	23071811-058A	Water	08/15/23 10:35	08/16/23 17:15
160-51097-60	23071811-060A	Water	08/14/23 14:32	08/16/23 17:15
160-51097-61	23071811-061A	Water	08/09/23 11:13	08/16/23 17:15

Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-041A

Lab Sample ID: 160-51097-41

Date Collected: 08/10/23 11:29

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111	U	0.114	0.114	1.00	0.179	pCi/L	08/23/23 10:03	09/14/23 07:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		30 - 110					08/23/23 10:03	09/14/23 07:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.305	U	0.354	0.355	1.00	0.581	pCi/L	08/23/23 10:07	09/11/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		30 - 110					08/23/23 10:07	09/11/23 11:56	1
Y Carrier	83.4		30 - 110					08/23/23 10:07	09/11/23 11:56	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.416	U	0.372	0.373	5.00	0.581	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-042A

Lab Sample ID: 160-51097-42

Date Collected: 08/09/23 13:43

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0651	U	0.0836	0.0838	1.00	0.138	pCi/L	08/23/23 10:03	09/14/23 07:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/23/23 10:03	09/14/23 07:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.596	U	0.399	0.403	1.00	0.599	pCi/L	08/23/23 10:07	09/11/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/23/23 10:07	09/11/23 11:56	1
Y Carrier	87.5		30 - 110					08/23/23 10:07	09/11/23 11:56	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.662		0.408	0.412	5.00	0.599	pCi/L		09/18/23 13:01	1

Eurofins St. Louis

Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-043A

Lab Sample ID: 160-51097-43

Date Collected: 08/11/23 11:22

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00227	U	0.0825	0.0825	1.00	0.171	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.431	U	0.353	0.355	1.00	0.549	pCi/L	08/23/23 10:07	09/11/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					08/23/23 10:07	09/11/23 11:57	1
Y Carrier	86.7		30 - 110					08/23/23 10:07	09/11/23 11:57	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.431	U	0.363	0.364	5.00	0.549	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-044A

Lab Sample ID: 160-51097-44

Date Collected: 08/11/23 12:09

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.236	U	0.241	0.241	1.00	0.378	pCi/L	08/23/23 10:03	09/14/23 07:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.7		30 - 110					08/23/23 10:03	09/14/23 07:44	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.160	U G	0.698	0.698	1.00	1.28	pCi/L	08/23/23 10:07	09/11/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.7		30 - 110					08/23/23 10:07	09/11/23 11:58	1
Y Carrier	83.7		30 - 110					08/23/23 10:07	09/11/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.396	U	0.738	0.738	5.00	1.28	pCi/L		09/18/23 13:01	1

Eurofins St. Louis

Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-045A

Lab Sample ID: 160-51097-45

Date Collected: 08/11/23 10:51

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.318		0.172	0.174	1.00	0.225	pCi/L	08/23/23 10:03	09/14/23 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		30 - 110					08/23/23 10:03	09/14/23 07:42	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.666		0.427	0.431	1.00	0.631	pCi/L	08/23/23 10:07	09/11/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		30 - 110					08/23/23 10:07	09/11/23 11:58	1
Y Carrier	82.2		30 - 110					08/23/23 10:07	09/11/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.984		0.460	0.465	5.00	0.631	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-046A

Lab Sample ID: 160-51097-46

Date Collected: 08/14/23 15:43

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.152	U	0.132	0.133	1.00	0.201	pCi/L	08/23/23 10:03	09/14/23 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					08/23/23 10:03	09/14/23 07:42	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.958		0.401	0.410	1.00	0.512	pCi/L	08/23/23 10:07	09/11/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					08/23/23 10:07	09/11/23 11:58	1
Y Carrier	90.5		30 - 110					08/23/23 10:07	09/11/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.11		0.422	0.431	5.00	0.512	pCi/L		09/18/23 13:01	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-047A

Lab Sample ID: 160-51097-47

Date Collected: 08/11/23 12:41

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.129	U	0.122	0.123	1.00	0.190	pCi/L	08/23/23 10:03	09/14/23 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/23/23 10:03	09/14/23 07:42	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.469	U	0.335	0.338	1.00	0.501	pCi/L	08/23/23 10:07	09/11/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					08/23/23 10:07	09/11/23 11:58	1
Y Carrier	88.2		30 - 110					08/23/23 10:07	09/11/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.598		0.357	0.360	5.00	0.501	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-048A

Lab Sample ID: 160-51097-48

Date Collected: 08/11/23 10:13

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0202	U	0.110	0.110	1.00	0.226	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.417	U	0.373	0.375	1.00	0.588	pCi/L	08/23/23 10:07	09/11/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					08/23/23 10:07	09/11/23 11:58	1
Y Carrier	85.2		30 - 110					08/23/23 10:07	09/11/23 11:58	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.417	U	0.389	0.391	5.00	0.588	pCi/L		09/18/23 13:01	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-049A

Lab Sample ID: 160-51097-49

Date Collected: 08/10/23 14:32

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.231		0.127	0.129	1.00	0.151	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.438	U	0.427	0.429	1.00	0.684	pCi/L	08/23/23 10:07	09/11/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		30 - 110					08/23/23 10:07	09/11/23 12:03	1
Y Carrier	74.4		30 - 110					08/23/23 10:07	09/11/23 12:03	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.669	U	0.445	0.448	5.00	0.684	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-050A

Lab Sample ID: 160-51097-50

Date Collected: 08/10/23 14:58

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.152	U	0.113	0.114	1.00	0.158	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.461	U	0.365	0.367	1.00	0.565	pCi/L	08/23/23 10:07	09/11/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/23/23 10:07	09/11/23 12:03	1
Y Carrier	85.6		30 - 110					08/23/23 10:07	09/11/23 12:03	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.613		0.382	0.384	5.00	0.565	pCi/L		09/18/23 13:01	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-051A

Lab Sample ID: 160-51097-51

Date Collected: 08/10/23 15:24

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0210	U	0.0814	0.0814	1.00	0.160	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.154	U	0.379	0.379	1.00	0.663	pCi/L	08/23/23 10:07	09/11/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		30 - 110					08/23/23 10:07	09/11/23 12:03	1
Y Carrier	87.5		30 - 110					08/23/23 10:07	09/11/23 12:03	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.175	U	0.388	0.388	5.00	0.663	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-053A

Lab Sample ID: 160-51097-53

Date Collected: 08/15/23 13:12

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.163	U	0.186	0.186	1.00	0.299	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	57.9		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.516	U G	0.653	0.654	1.00	1.08	pCi/L	08/23/23 10:07	09/11/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	57.9		30 - 110					08/23/23 10:07	09/11/23 12:03	1
Y Carrier	85.6		30 - 110					08/23/23 10:07	09/11/23 12:03	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.679	U	0.679	0.680	5.00	1.08	pCi/L		09/18/23 13:01	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-055A

Lab Sample ID: 160-51097-55

Date Collected: 08/15/23 12:53

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.114	U	0.163	0.164	1.00	0.277	pCi/L	08/23/23 10:03	09/14/23 07:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		30 - 110					08/23/23 10:03	09/14/23 07:42	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.918		0.557	0.563	1.00	0.818	pCi/L	08/23/23 10:07	09/11/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		30 - 110					08/23/23 10:07	09/11/23 12:03	1
Y Carrier	89.3		30 - 110					08/23/23 10:07	09/11/23 12:03	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.03		0.580	0.586	5.00	0.818	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-056A

Lab Sample ID: 160-51097-56

Date Collected: 08/10/23 13:22

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0225	U	0.0997	0.0998	1.00	0.189	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.573	U	0.385	0.389	1.00	0.576	pCi/L	08/23/23 10:07	09/11/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					08/23/23 10:07	09/11/23 12:03	1
Y Carrier	83.4		30 - 110					08/23/23 10:07	09/11/23 12:03	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.595		0.398	0.402	5.00	0.576	pCi/L		09/18/23 13:01	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-057A

Lab Sample ID: 160-51097-57

Date Collected: 08/10/23 13:45

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0352	U	0.0907	0.0908	1.00	0.169	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0721	U	0.305	0.305	1.00	0.555	pCi/L	08/23/23 10:07	09/11/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		30 - 110					08/23/23 10:07	09/11/23 12:04	1
Y Carrier	88.2		30 - 110					08/23/23 10:07	09/11/23 12:04	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.107	U	0.318	0.318	5.00	0.555	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-058A

Lab Sample ID: 160-51097-58

Date Collected: 08/15/23 10:35

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0117	U	0.0816	0.0816	1.00	0.175	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.167	U	0.357	0.357	1.00	0.620	pCi/L	08/23/23 10:07	09/11/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110					08/23/23 10:07	09/11/23 12:04	1
Y Carrier	87.1		30 - 110					08/23/23 10:07	09/11/23 12:04	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.167	U	0.366	0.366	5.00	0.620	pCi/L		09/18/23 13:01	1

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Client Sample Results

APPENDIX A.
INITIAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-060A

Lab Sample ID: 160-51097-60

Date Collected: 08/14/23 14:32

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.122	U	0.122	0.122	1.00	0.191	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.432	U	0.384	0.386	1.00	0.605	pCi/L	08/23/23 10:07	09/11/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		30 - 110					08/23/23 10:07	09/11/23 12:04	1
Y Carrier	86.4		30 - 110					08/23/23 10:07	09/11/23 12:04	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.554	U	0.403	0.405	5.00	0.605	pCi/L		09/18/23 13:01	1

Client Sample ID: 23071811-061A

Lab Sample ID: 160-51097-61

Date Collected: 08/09/23 11:13

Matrix: Water

Date Received: 08/16/23 17:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0299	U	0.0965	0.0966	1.00	0.182	pCi/L	08/23/23 10:03	09/14/23 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					08/23/23 10:03	09/14/23 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.419	U	0.450	0.452	1.00	0.734	pCi/L	08/23/23 10:07	09/11/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					08/23/23 10:07	09/11/23 12:04	1
Y Carrier	86.7		30 - 110					08/23/23 10:07	09/11/23 12:04	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.449	U	0.460	0.462	5.00	0.734	pCi/L		09/18/23 13:01	1

Eurofins St. Louis

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Job ID: 160-51097-3
SDG: 23071811-3

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-625151/1-A
Matrix: Water
Analysis Batch: 628146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625151

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01475	U	0.0678	0.0678	1.00	0.153	pCi/L	08/23/23 10:03	09/14/23 07:34	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					08/23/23 10:03	09/14/23 07:34	1

Lab Sample ID: LCS 160-625151/2-A
Matrix: Water
Analysis Batch: 628146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625151

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	10.62		1.17	1.00	0.163	pCi/L	94	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	96.7		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-625153/1-A
Matrix: Water
Analysis Batch: 627474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625153

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5370		0.352	0.356	1.00	0.520	pCi/L	08/23/23 10:07	09/11/23 11:55	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					08/23/23 10:07	09/11/23 11:55	1
Y Carrier	85.6		30 - 110					08/23/23 10:07	09/11/23 11:55	1

Lab Sample ID: LCS 160-625153/2-A
Matrix: Water
Analysis Batch: 627474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625153

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		7.88	9.382		1.26	1.00	0.504	pCi/L	119	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	96.7		30 - 110							
Y Carrier	87.9		30 - 110							

QC Association Summary

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Rad

Prep Batch: 625151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-41	23071811-041A	Total/NA	Water	PrecSep-21	
160-51097-42	23071811-042A	Total/NA	Water	PrecSep-21	
160-51097-43	23071811-043A	Total/NA	Water	PrecSep-21	
160-51097-44	23071811-044A	Total/NA	Water	PrecSep-21	
160-51097-45	23071811-045A	Total/NA	Water	PrecSep-21	
160-51097-46	23071811-046A	Total/NA	Water	PrecSep-21	
160-51097-47	23071811-047A	Total/NA	Water	PrecSep-21	
160-51097-48	23071811-048A	Total/NA	Water	PrecSep-21	
160-51097-49	23071811-049A	Total/NA	Water	PrecSep-21	
160-51097-50	23071811-050A	Total/NA	Water	PrecSep-21	
160-51097-51	23071811-051A	Total/NA	Water	PrecSep-21	
160-51097-53	23071811-053A	Total/NA	Water	PrecSep-21	
160-51097-55	23071811-055A	Total/NA	Water	PrecSep-21	
160-51097-56	23071811-056A	Total/NA	Water	PrecSep-21	
160-51097-57	23071811-057A	Total/NA	Water	PrecSep-21	
160-51097-58	23071811-058A	Total/NA	Water	PrecSep-21	
160-51097-60	23071811-060A	Total/NA	Water	PrecSep-21	
160-51097-61	23071811-061A	Total/NA	Water	PrecSep-21	
MB 160-625151/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-625151/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 625153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51097-41	23071811-041A	Total/NA	Water	PrecSep_0	
160-51097-42	23071811-042A	Total/NA	Water	PrecSep_0	
160-51097-43	23071811-043A	Total/NA	Water	PrecSep_0	
160-51097-44	23071811-044A	Total/NA	Water	PrecSep_0	
160-51097-45	23071811-045A	Total/NA	Water	PrecSep_0	
160-51097-46	23071811-046A	Total/NA	Water	PrecSep_0	
160-51097-47	23071811-047A	Total/NA	Water	PrecSep_0	
160-51097-48	23071811-048A	Total/NA	Water	PrecSep_0	
160-51097-49	23071811-049A	Total/NA	Water	PrecSep_0	
160-51097-50	23071811-050A	Total/NA	Water	PrecSep_0	
160-51097-51	23071811-051A	Total/NA	Water	PrecSep_0	
160-51097-53	23071811-053A	Total/NA	Water	PrecSep_0	
160-51097-55	23071811-055A	Total/NA	Water	PrecSep_0	
160-51097-56	23071811-056A	Total/NA	Water	PrecSep_0	
160-51097-57	23071811-057A	Total/NA	Water	PrecSep_0	
160-51097-58	23071811-058A	Total/NA	Water	PrecSep_0	
160-51097-60	23071811-060A	Total/NA	Water	PrecSep_0	
160-51097-61	23071811-061A	Total/NA	Water	PrecSep_0	
MB 160-625153/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-625153/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba					
Lab Sample ID	Client Sample ID	(30-110)					
160-51097-41	23071811-041A	85.2					
160-51097-42	23071811-042A	87.2					
160-51097-43	23071811-043A	91.5					
160-51097-44	23071811-044A	73.7					
160-51097-45	23071811-045A	81.5					
160-51097-46	23071811-046A	86.2					
160-51097-47	23071811-047A	87.2					
160-51097-48	23071811-048A	83.5					
160-51097-49	23071811-049A	86.0					
160-51097-50	23071811-050A	92.0					
160-51097-51	23071811-051A	84.2					
160-51097-53	23071811-053A	57.9					
160-51097-55	23071811-055A	80.7					
160-51097-56	23071811-056A	92.0					
160-51097-57	23071811-057A	83.7					
160-51097-58	23071811-058A	87.7					
160-51097-60	23071811-060A	82.0					
160-51097-61	23071811-061A	86.7					
LCS 160-625151/2-A	Lab Control Sample	96.7					
MB 160-625151/1-A	Method Blank	91.7					

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba	Y				
Lab Sample ID	Client Sample ID	(30-110)	(30-110)				
160-51097-41	23071811-041A	85.2	83.4				
160-51097-42	23071811-042A	87.2	87.5				
160-51097-43	23071811-043A	91.5	86.7				
160-51097-44	23071811-044A	73.7	83.7				
160-51097-45	23071811-045A	81.5	82.2				
160-51097-46	23071811-046A	86.2	90.5				
160-51097-47	23071811-047A	87.2	88.2				
160-51097-48	23071811-048A	83.5	85.2				
160-51097-49	23071811-049A	86.0	74.4				
160-51097-50	23071811-050A	92.0	85.6				
160-51097-51	23071811-051A	84.2	87.5				
160-51097-53	23071811-053A	57.9	85.6				
160-51097-55	23071811-055A	80.7	89.3				
160-51097-56	23071811-056A	92.0	83.4				
160-51097-57	23071811-057A	83.7	88.2				
160-51097-58	23071811-058A	87.7	87.1				
160-51097-60	23071811-060A	82.0	86.4				
160-51097-61	23071811-061A	86.7	86.7				
LCS 160-625153/2-A	Lab Control Sample	96.7	87.9				
MB 160-625153/1-A	Method Blank	91.7	85.6				

Eurofins St. Louis

Tracer/Carrier Summary

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

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APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Coffeen 3Q	Summary of Well Information																
LIMS Workorder	23071810																	
Technician	JCJR																	
WO Sample	Well ID	Date	hmm Time	hhmm Time (adj)	DTB (ft)	DTW (ft)	MP Elev (ft)	GW Elev (ft)	Well Condition	Sampling Device	Samling Method	Field Filtered	Appearance	Odor	Color	Turbidity (visible)	Ferrous Iron	COMMENTS
001A	G101	08/09/2023	1451	1451		11.16			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
002A	G102	08/09/2023	1507	1507		10.34			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
003A	G103	08/10/2023	823	0823		13.53			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
004A	G105	08/10/2023	859	0859		10.84			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
005A	G106	08/10/2023	916	0916		12.17			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
006A	G107	08/10/2023	943	0943		12.76			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
007A	G108	08/09/2023	948	0948		13.24			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
008A	G109	08/09/2023	1010	1010		13.64			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	Slight		
009A	G110	08/09/2023	1028	1028		14.16			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
010A	G111	08/09/2023	1047	1047		14.95			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
011A	G119	08/09/2023	1132	1132		15.65			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
012A	G120	08/09/2023	1149	1149		16.31			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
013A	G121	08/09/2023	1219	1219		18.4			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
014A	G122	08/09/2023	1237	1237		19.54			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
015A	G123	08/09/2023	1257	1257		18.57			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
016A	G124	08/09/2023	1313	1313		18.49			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
017A	G125	08/09/2023	1327	1327		18.53			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
018A	G126	08/09/2023	1401	1401		10.93			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
019A	G151	08/10/2023	1010	1010		12.22			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
020A	G152	08/10/2023	1209	1209		12.4			Good	Bladder Pump	Low Flow	Yes	Cloudy	None	Lt. Brown	Moderate		
021A	G153	08/10/2023	1138	1138		13.08			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
022A	G154	08/10/2023	1113	1113		14.6			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
023A	G155	08/10/2023	1046	1046		13.21			Good	Bladder Pump	Low Flow	Yes	Cloudy	None	Rust	Moderate		
024A	G200			0		9.21			Needs Work									hole in air line
025A	G206	08/14/2023	1152	1152		13.89			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	None	0.564	
026A	G206D	08/14/2023	1134	1134		30.04			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	None	2.818	
027A	G207	08/15/2023	dry			14.2												dry after reads
028A	G208	08/14/2023	1109	1109		14.08			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
029A	G209	08/14/2023	1046	1046		13.79			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	0.725	
030A	G210	08/14/2023	1029	1029		13.27			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
031A	G211	08/14/2023	1236	1236		13.44			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
032A	G212	08/10/2023	1528	1528		14.61			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	under	
033A	G213	08/10/2023	1508	1508		15.05			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	under	
034A	G214	08/10/2023	1450	1450		17.64			Good	Bladder Pump	Low Flow		Clear	None	None	None		
035A	G215	08/10/2023	1416	1416		17.22			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	under	
036A	G216	08/10/2023	1347	1347		16.51			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	Slight		
037A	G217	08/10/2023	1325	1325		18.29			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	under	
038A	G218	08/10/2023	1253	1253		16.98			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	under	
039A	G270	08/14/2023	1345	1345		8.52			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	0.618	
040A	G271	08/14/2023	1315	1315		11.2			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	0.085	
041A	G272	08/14/2023	1411	1411		10.55			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
042A	G273	08/14/2023	1432	1432		11.56			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	0	
043A	G274	08/14/2023	1200	1200		14.99			Good	Bladder Pump	Low Flow	Yes	Clear	Slight		None	N/A	
044A	G275	08/14/2023		0		dry												DRY
045A	G275D	08/14/2023	1120	1120		31.27			Good	Bladder Pump	Low Flow	Yes	Clear	None	Lt. Brown	Slight	over	
046A	G276	08/14/2023	1235	1235		27.75			Needs Work	Bladder Pump	Low Flow	Yes	Clear	None	None	None	2.056	leak in air line
047A	G277	08/14/2023		0		19.76												Dry
048A	G278	08/15/2023	dry	0dry		20.98												insufficient water
049A	G279	08/08/2023	1251	1251		23.69												
050A	G280	08/14/2023	1458	1458		5.8			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	Slight	2.436	
051A	G281	08/14/2023	1606	1606		6.39			Good	Bladder Pump	low flow	yes	clear	none	none	none	0.124	
052A	G283	08/15/2023	1145	1145		7.45			Good	Bladder Pump	Low flow	Yes	Clear	None	None	None	3.821	
053A	G284	08/15/2023	1010	1010		12.28			Good	Bladder Pump	Low flow	Yes	Clear	None	None	None	0	
054A	G285	08/15/2023	1104	1104		8.44			Good	Bladder Pump	Low flow	Yes	Clear	None	None	None	0.359	
055A	G286			0		dry												
056A	G287			0														unable to find access to well
057A	G288	08/14/2023	1336	1336		8.7												
058A	G301	08/09/2023	1113	1113		8.11			Good	Bladder Pump	Low Flow	Yes	Clear	Moderate	None	None	2.697	
059A	G302	08/09/2023	1155	1155		12.68			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	None	5.492	
060A	G303	08/09/2023	1526	1526		8.4			Good	Bladder Pump	Low Flow	Yes	Clear	Moderate	None	None	Over	
061A	G305	08/10/2023	1236	1236		9.19			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	None	2.463	

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event		Summary of Well Information																	
LIMS Workorder		23071810																	
Technician		JCJR																	
WO Sample	Well ID	Date	hmm Time	hhmm Time (adj)	DTB (ft)	DTW (ft)	MP Elev (ft)	GW Elev (ft)	Well Condition	Sampling Device	Samling Method	Field Filtered	Appearance	Odor	Color	Turbidity (visible)	Ferrous Iron	COMMENTS	
062A	G306	08/10/2023	1101	1101		9.7			Needs Work	Bladder Pump	Low Flow	Yes	Cloudy	None	Brown	High	2.565		
063A	G307	08/08/2023	1132			0.7			Bad										
064A	G307D	08/10/2023	1212	1212		7.89			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	None	4.446		
065A	G308	08/10/2023	1300	1300		5.09			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	None			
066A	G309	08/08/2023	1124	1124		8.04													
067A	G310	08/09/2023	1036	1036		10.3			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	Over		
068A	G312	08/09/2023	1228	1228		14			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	Over		
069A	G313	08/09/2023	1412	1412		3.01			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	2.982		
070A	G314	08/09/2023	1433	1433		4.88			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	None	Over		
071A	G314D	08/09/2023	1453	1453		7.78			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	None	3.301		
072A	G315	03/10/2023	1129	1129		3.5			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	None	5.375		
073A	G316	08/09/2023	1343	1343		11.7			Good	Bladder Pump	Low Flow	Yes	Clear	Moderate	None	None	Over		
074A	G317	08/08/2023	1345	1345		Dry											Dry		
075A	G401	08/11/2023	1122	1122		21.75			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	None	Over		
076A	G402	08/11/2023	1209	1209		11.65			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	6.379		
077A	G403	08/11/2023	1051	1051		7.45			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	Slight	2.764	Lock Broken	
078A	G404	08/14/2023	1546	1546		5.62			Good	Bladder Pump	Low Flow	yes	Clear	Slight	None	None	4.283		
079A	G405	08/11/2023	1241	1241		6.85			Good	Bladder Pump	Low Flow	Yes	Clear		None	None	5.845		
080A	G406	08/11/2023	1013	1013		11.49			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	3.292		
081A	G407	08/10/2023	1429	1429		8.79			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	None	Over		
082A	G410	08/10/2023	1458	1458		9.66			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None			
083A	G411	08/10/2023	1524	1524		8.69			Good	Bladder Pump	Low Flow	Yes	Clear		None	None			
084A	G1001	08/15/2023	dry	dry		6.32												insufficient water	
085A	G1003			0															
086A	L203	08/15/2023	dry	dry														insufficient water	
087A	MW03D	08/08/2023	1115	1115		30.65													
088A	MW11D	08/08/2023	1159	1159		8.57													
089A	MW11S	08/08/2023	1158	1158		8													
090A	MW12D	08/08/2023	1242	1242		13.93													
091A	MW16D	08/08/2023	1334	1334		12.97													
092A	MW16S	08/08/2023	1333	1333		11.63													
093A	MW20S	08/08/2023	1317	1317		10.6													
094A	NE RISER	08/15/2023	1312	1312		NA			good	Bladder Pump	low flow	yes	clear	none	none	none	2.008		
095A	R104	08/10/2023	840	0840		10.45			good	Bladder Pump	low flow	yes	clear	none	none	none			
096A	R201	08/15/2023	dry	0		11.61												hole in air line	
097A	R205	08/14/2023	1534	1534		9.69			good	Bladder Pump	low flow	yes	clear	none	none	none			
098A	SG-02			0														unable to find access	
099A	SG-03	08/08/2023	1204	1204		9.65													
100A	SG-04			0														unable to find access	
101A	T127	08/09/2023	1108	1108		15.2			good	Bladder Pump	low flow	yes	clear	none	none	none			
102A	T128	08/09/2023	1416	1416		14.8			good	Bladder Pump	low flow	yes	clear	none	none	none			
103A	X201	08/15/2023	1253	1253								no	Clear	none	None	None			
104A	XPW01	08/10/2023	1322	1322		5.29			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None	None	6.449		
105A	XPW02	08/10/2023	1345	1345		10.3			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	Over		
106A	XSG-01	08/08/2023	1219	1219		6.25													
107A	FB	08/15/2023	1035	1035															
108A	G102 DUP	08/09/2023	1507	1507															
109A	G200 DUP	08/15/2023	dry	dry															
110A	G273 DUP	08/14/2023	1432	1432															
111A	G301 DUP	08/09/2023	1113	1113															
112A	R201 DUP	08/15/2023	dry	dry															
113A	G308 (resample)	09/19/2023	1100	1100		6.22			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	0.011		
114A	x201 (resample)	09/19/2023	1017	1017		35.29				Bailer		Yes	Clear	None	None	None	0.063		

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Coffeen 3Q	Summary of Stabilized Field Parameters																
LIMS Workorder	23071810																	
Technician	JC,JR																	
Well ID	Date	Time	Time (adj)	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	DTB (ft)	DTW (ft)	MP Elev (ft)	GW Elev (ft)	LIMS ID	
G101	8/9/2023	14:51	1451	14.6	58.28	7.1	1346.1	1346.1	0.55	14.08	151.1			11.16			23071810-001A	
G102	8/9/2023	15:07	1507	15.9	60.62	7.25	1155.5	1155.5	1.09	10.94	156.2			10.34			23071810-002A	
G103	8/10/2023	8:23	0823	17	62.6	6.77	1123.8	1123.8	2.2	5.84	163.4			13.53			23071810-003A	
G105	8/10/2023	8:59	0859	16.2	61.16	6.97	1103.9	1103.9	1.67	3.87	-81.6			10.84			23071810-004A	
G106	8/10/2023	9:16	0916	16.8	62.24	6.88	1241	1241	1.72	2.63	35.7			12.17			23071810-005A	
G107	8/10/2023	9:43	0943	16.4	61.52	7.03	1000.5	1000.5	1.96	10.32	81.9			12.76			23071810-006A	
G108	8/9/2023	9:48	0948	16	60.8	6.68	999.2	999.2	2.06	6.07	55.9			13.24			23071810-007A	
G109	8/9/2023	10:10	1010	15.7	60.26	6.81	1261	1261	1.57	33.29	114.5			13.64			23071810-008A	
G110	8/9/2023	10:28	1028	16.1	60.98	6.73	1210.9	1210.9	1.33	9.14	121			14.16			23071810-009A	
G111	8/9/2023	10:47	1047	16.2	61.16	6.94	1179.7	1179.7	1.17	4.94	135			14.95			23071810-010A	
G119	8/9/2023	11:32	1132	16.4	61.52	7.1	942.6	942.6	1.69	18.75	150.9			15.65			23071810-011A	
G120	8/9/2023	11:49	1149	16.4	61.52	6.99	1168.8	1168.8	3.79	16.25	160.6			16.31			23071810-012A	
G121	8/9/2023	12:19	1219	16.2	61.16	6.89	1274.6	1274.6	2.07	11.92	164.3			18.4			23071810-013A	
G122	8/9/2023	12:37	1237	15.5	59.9	6.77	1614.8	1614.8	2.21	9.19	171.1			19.54			23071810-014A	
G123	8/9/2023	12:57	1257	15.3	59.54	7.01	1275	1275	1.51	10.26	124.7			18.57			23071810-015A	
G124	8/9/2023	13:13	1313	15.5	59.9	7.09	1147.8	1147.8	2.72	8.55	139.3			18.49			23071810-016A	
G125	8/9/2023	13:27	1327	15.5	59.9	7.15	1161.3	1161.3	4.64	7.25	151.9			18.53			23071810-017A	
G126	8/9/2023	14:01	1401	16.5	61.7	7.05	1178.4	1178.4	2.17	4.66	145.9			10.93			23071810-018A	
G151	8/10/2023	10:10	1010	16.2	61.16	7.14	1214.2	1214.2	2.04	3.34	119			12.22			23071810-019A	
G152	8/10/2023	12:09	1209	16	60.8	7	1257.2	1257.2	1.45	303.89	22.6			12.4			23071810-020A	
G153	8/10/2023	11:38	1138	16.7	62.06	6.73	5394.8	5394.8	0.97	6.15	3.8			13.08			23071810-021A	
G154	8/10/2023	11:13	1113	16.2	61.16	7.3	890.8	890.8	2.84	12.36	122.2			14.6			23071810-022A	
G155	8/10/2023	10:46	1046	16.6	61.88	7.16	1219.7	1219.7	2.01	448.4	115.8			13.21			23071810-023A	
														9.21			23071810-024A	
G206	8/14/2023	11:52	1152	16.1	60.98	6.93	1115.4	1115.4	0.9	3.11	-187.9			13.89			23071810-025A	
G206D	8/14/2023	11:34	1134	15.4	59.72	6.94	1384.2	1384.2	0.66	6.89	-48.1			30.04			23071810-026A	
G207	8/15/2023	9:13	0913	17.5	63.5	6.61	1136.7	1136.7	1.47	41.59	88.1			14.2			23071810-027A	
G208	8/14/2023	11:09	1109	16	60.8	6.91	726.4	726.4	1.45	1.82	106.5			14.08			23071810-028A	
G209	8/14/2023	10:46	1046	15.4	59.72	6.6	1635.8	1635.8	0.78	3.09	83.7			13.79			23071810-029A	
G210	8/14/2023	10:29	1029	15.9	60.62	6.92	1180.2	1180.2	1.19	5.18	131.1			13.27			23071810-030A	
G211	8/14/2023	12:36	1236	15.6	60.08	6.9	1067.1	1067.1	0.59	16.82	16.2			13.44			23071810-031A	
G212	8/10/2023	15:28	1528	17.6	63.68	7.22	905.7	905.7	2.95	3.86	68.2			14.61			23071810-032A	
G213	8/10/2023	15:08	1508	17.6	63.68	7.16	876.7	876.7	1.78	7.43	101.6			15.05			23071810-033A	
G214	8/10/2023	14:50	1450	17.6	63.68	7.13	1224.7	1224.7	1.1	6.04	89.7			17.64			23071810-034A	
G215	8/10/2023	14:16	1416	15.6	60.08	6.95	2327	2327	0.71	8.26	92.7			17.22			23071810-035A	
G216	8/10/2023	13:47	1347	16.5	61.7	6.95	2888.5	2888.5	1.35	4.01	17			16.51			23071810-036A	
G217	8/10/2023	13:25	1325	15.6	60.08	6.92	1968.2	1968.2	1.03	7.19	77.1			18.29			23071810-037A	
G218	8/10/2023	12:53	1253	15.2	59.36	6.94	1995.5	1995.5	0.76	22.07	70.1			16.98			23071810-038A	
G270	8/14/2023	13:45	1345	15.2	59.36	6.84	935.7	935.7	1.64	5.26	77.7			8.52			23071810-039A	
G271	8/14/2023	13:15	1315	17.2	62.96	6.97	1187.5	1187.5	3.16	10.18	75.2			11.2			23071810-040A	
G272	8/14/2023	14:11	1411	18	64.4	6.9	1619.9	1619.9	1.98	3.07	90.4			10.55			23071810-041A	
G273	8/14/2023	14:32	1432	16.6	61.88	6.76	2056.1	2056.1	1.06	2.18	102.8			11.56			23071810-042A	
G274	8/14/2023	12:00	1200	15.6	60.08	7.53	1691.3	1691.3	2.16	9.78	-1.2			14.99			23071810-043A	
														dry			23071810-044A	
G275D	8/14/2023	11:19	1119	15.6	60.08	7.51	2485.7	2485.7	0.54	14.23	-132			31.27			23071810-045A	
G276	8/14/2023	12:35	1235	16.2	61.16	7.16	2193.7	2193.7	1.6	9.03	33.6			27.75			23071810-046A	
														19.76			23071810-047A	
														20.98			23071810-048A	
														23.69			23071810-049A	
G280	8/14/2023	14:58	1458	15.5	59.9	7.45	1479.7	1479.7	1.01	8.52	30.9			5.8			23071810-050A	
G281	8/14/2023	16:06	1606	18.6	65.48	6.76	1742.6	1742.6	1.74	6.36	101.6			6.39			23071810-051A	
G283	8/15/2023	11:45	1145	14.8	58.64	7.07	2098.9	2098.9	0.53	10.21	-71			7.45			23071810-052A	
G284	8/15/2023	10:10	1010	17	62.6	7.16	1930.2	1930.2	4.05	6.02	126.4			12.28			23071810-053A	
G285	8/15/2023	11:04	1104	14.3	57.74	6.72	3429.4	3429.4	0.69	7.32	54.2			8.44			23071810-054A	
														dry			23071810-055A	

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Coffeen 3Q	Summary of Stabilized Field Parameters															
LIMS Workorder	23071810																
Technician	JC,JR																
Well ID	Date	Time	Time (adj)	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	DTB (ft)	DTW (ft)	MP Elev (ft)	GW Elev (ft)	LIMS ID
																	23071810-056A
														8.7			23071810-057A
G301	8/9/2023	11:13	1113	16.5	61.7	6.36	2193.8	2193.8	0.44	8.36	-95.6			8.11			23071810-058A
G302	8/9/2023	11:55	1155	16	60.8	6.49	2460.5	2460.5	2.22	8.1	-79.8			12.68			23071810-059A
G303	8/9/2023	15:26	1526	15.4	59.72	6.8	3751	3751	2.18	43.08	-90.7			8.4			23071810-060A
G305	8/10/2023	12:36	1236	15.4	59.72	7.3	3225.9	3225.9	1.76	13.09	-41.1			9.19			23071810-061A
G306	8/10/2023	11:01	1101	14.5	58.1	6.16	1217.8	1217.8	2.76	320.29	142.7			9.7			23071810-062A
														0.7			23071810-063A
G307D	8/10/2023	12:12	1212	19.8	67.64	7.17	2580.7	2580.7	0.79	19.76	-70.2			7.89			23071810-064A
G308	8/10/2023	13:00	1300	16.2	61.16	7.26	3503.9	3503.9	0.49	8.98	-3			5.09			23071810-065A
														8.04			23071810-066A
G310	8/9/2023	10:36	1036	15.5	59.9	6.78	2641.5	2641.5	0.48	1.13	99.4			10.3			23071810-067A
G312	8/9/2023	12:28	1228	16.6	61.88	6.1	3871.4	3871.4	0.53	8.2	3.4			14			23071810-068A
G313	8/9/2023	14:12	1412	18.1	64.58	6.68	3376.8	3376.8	0.44	9.32	-36.3			3.01			23071810-069A
G314	8/9/2023	14:33	1433	16.7	62.06	6.39	6681.4	6681.4	0.45	2.24	-41.1			4.88			23071810-070A
G314D	8/9/2023	14:53	1453	15.1	59.18	6.8	5231.5	5231.5	0.64	9.63	-45.2			7.78			23071810-071A
G315	8/10/2023	11:29	1129	16.1	60.98	6.69	2599.6	2599.6	0.81	9.22	98.2			3.5			23071810-072A
G316	8/9/2023	13:43	1343	16.1	60.98	6.73	3742.6	3742.6	0.53	9.87	-114.1			11.7			23071810-073A
														Dry			23071810-074A
G401	8/11/2023	11:22	1122	17.5	63.5	5.98	4906.9	4906.9	0.5	6.79	-29.8			21.75			23071810-075A
G402	8/11/2023	12:09	1209	18.1	64.58	7.29	2822.2	2822.2	8.19	80.95	23.1			11.65			23071810-076A
G403	8/11/2023	10:51	1051	18.7	65.66	7.09	1168.7	1168.7	3.06	8.33	-7.6			7.45			23071810-077A
G404	8/14/2023	15:46	1546	19.4	66.92	6.77	2818.9	2818.9	0.48	5.21	65.9			5.62			23071810-078A
G405	8/11/2023	12:41	1241	18.2	64.76	7.09	3392.5	3392.5	1.83	4.72	-21.4			6.85			23071810-079A
G406	8/11/2023	10:13	1013	16.9	62.42	6.73	2273.7	2273.7	2.27	4.1	80.7			11.49			23071810-080A
G407	8/10/2023	14:32	1432	19.2	66.56	6.83	3982.7	3982.7	0.8	9.8	11.6			8.79			23071810-081A
G410	8/10/2023	14:58	1458	19	66.2	6.64	2343.6	2343.6	2.04	2.71	-0.5			9.66			23071810-082A
G411	8/10/2023	15:24	1524	15.7	60.26	7.42	1631.5	1631.5	0.55	4.3	-1.2			8.69			23071810-083A
														6.32			23071810-084A
																	23071810-085A
																	23071810-086A
														30.65			23071810-087A
														8.57			23071810-088A
														8			23071810-089A
														13.93			23071810-090A
														12.97			23071810-091A
														11.63			23071810-092A
														10.6			23071810-093A
NE RISER	8/15/2023	13:12	1312	19.2	66.56	7	28401.7	28401.7	0.56	4.66	178			NA			23071810-094A
R104	8/10/2023	8:40	0840	16.6	61.88	7.08	1035	1035	2.5	2.45	167.4			10.45			23071810-095A
														11.61			23071810-096A
R205	8/14/2023	15:34	1534	16.4	61.52	6.54	1844.8	1844.8	1.09	8.29	90.1			9.69			23071810-097A
																	23071810-098A
														9.65			23071810-099A
																	23071810-100A
T127	8/9/2023	11:07	1107	15.7	60.26	6.97	1057.7	1057.7	0.9	8.05	147.5			15.2			23071810-101A
T128	8/9/2023	14:16	1416	15.6	60.08	7.02	949.2	949.2	1.84	2.6	142			14.8			23071810-102A
X201	8/15/2023	12:53	1253	26.2	79.16	4.39	37586.6	37586.6	7.66	5.41	229.1						23071810-103A
XPW01	8/10/2023	13:22	1322	18.3	64.94	7.66	2416.6	2416.6	0.47	3.47	-103.6			5.29			23071810-104A
XPW02	8/10/2023	13:45	1345	18.7	65.66	7.58	1281.9	1281.9	0.46	2.61	-111.2			10.3			23071810-105A
														6.25			23071810-106A
																	23071810-107A
																	23071810-108A
																	23071810-109A
																	23071810-110A

Site Sampling Event	Coffeen 3Q																	
LIMS Workorder	23071810																	
Technician	JC,JR																	
Well ID	Date	Time	Time (adj)	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	DTB (ft)	DTW (ft)	MP Elev (ft)	GW Elev (ft)	LIMS ID	
																	23071810-111A	
																	23071810-112A	
G308 (resample)	9/19/2023	11:00	1100	18.3	64.94	7.08	2190.4	2190.4	0.26	2.44	64.8			6.22			23071810-113A	
x201 (resample)	9/19/2023	10:17	1017	22.3	72.14	5.71	24996.5	24996.5	8.73	10.1	209.5			35.29			23071810-114A	

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-001A													
Well ID	JC,JR													
Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G101	8/9/2023	14:30	1430	11.16		14.8	58.64	7.1	1378.7	1378.7	1.27	42.18	151.8	
G101	8/9/2023	14:33	1433	11.16		14.7	58.46	7.09	1381.4	1381.4	0.78	34.03	151.5	
G101	8/9/2023	14:36	1436	11.16		14.6	58.28	7.09	1375.3	1375.3	0.66	26.56	151.5	
G101	8/9/2023	14:39	1439	11.16		14.6	58.28	7.09	1369.7	1369.7	0.62	23.31	151.5	
G101	8/9/2023	14:42	1442	11.16		14.7	58.46	7.09	1363.1	1363.1	0.59	17.74	151.3	
G101	8/9/2023	14:45	1445	11.16		14.7	58.46	7.1	1356.1	1356.1	0.57	16.73	151.3	
G101	8/9/2023	14:48	1448	11.16		14.6	58.28	7.1	1353.1	1353.1	0.56	15.14	151.2	
G101	8/9/2023	14:51	1451	11.16		14.6	58.28	7.1	1346.1	1346.1	0.55	14.08	151.1	

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G102	8/9/2023	15:01	1501	10.34		17.3	63.14	7.45	880.9	880.9	4.82	7.47	148.4	
G102	8/9/2023	15:04	1504	10.34		15.8	60.44	7.27	1192	1192	1.33	20.67	157.6	
G102	8/9/2023	15:07	1507	10.34		15.9	60.62	7.25	1155.5	1155.5	1.09	10.94	156.2	

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G103	8/10/2023	8:17	0817	13.53		15.8	60.44	6.47	1117	1117	1.8	11.86	173.9	
G103	8/10/2023	8:20	0820	13.53		16.7	62.06	6.66	1112.9	1112.9	2.12	7.43	166.3	
G103	8/10/2023	8:23	0823	13.53		17	62.6	6.77	1123.8	1123.8	2.2	5.84	163.4	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G105	8/10/2023	8:53	0853	10.84		16.2	61.16	6.95	1106.6	1106.6	1.81	9.4	-45.9	
G105	8/10/2023	8:56	0856	10.84		16.2	61.16	6.95	1106.1	1106.1	1.63	4.92	-73.4	
G105	8/10/2023	8:59	0859	10.84		16.2	61.16	6.97	1103.9	1103.9	1.67	3.87	-81.6	

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Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-005A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G106	8/10/2023	9:10	0910	12.17		16.7	62.06	7.11	1324.4	1324.4	4.45	4.91	33.4	
G106	8/10/2023	9:13	0913	12.17		16.3	61.34	6.94	1249.5	1249.5	1.53	4.41	33.2	
G106	8/10/2023	9:16	0916	12.17		16.8	62.24	6.88	1241	1241	1.72	2.63	35.7	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G107	8/10/2023	9:31	0931	12.76		16.7	62.06	7.06	995.7	995.7	2.47	16.47	75.1	
G107	8/10/2023	9:34	0934	12.76		16.6	61.88	7.04	996.4	996.4	2.66	13.51	77.2	
G107	8/10/2023	9:37	0937	12.76		16.6	61.88	7.04	997	997	2.49	10.74	79.1	
G107	8/10/2023	9:40	0940	12.76		16.5	61.7	7.03	999.6	999.6	2.27	9.9	80.6	
G107	8/10/2023	9:43	0943	12.76		16.4	61.52	7.03	1000.5	1000.5	1.96	10.32	81.9	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G108	8/9/2023	9:42	0942	13.24		16	60.8	6.3	1017.1	1017.1	2.91	10.11	94	
G108	8/9/2023	9:45	0945	13.24		16	60.8	6.56	1000.1	1000.1	1.93	5.8	58.9	
G108	8/9/2023	9:48	0948	13.24		16	60.8	6.68	999.2	999.2	2.06	6.07	55.9	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-008A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G109	8/9/2023	10:04	1004	13.64		15.7	60.26	6.8	1258	1258	1.49	32.33	114.6	
G109	8/9/2023	10:07	1007	13.64		15.7	60.26	6.8	1260.4	1260.4	1.57	33.1	114.2	
G109	8/9/2023	10:10	1010	13.64		15.7	60.26	6.81	1261	1261	1.57	33.29	114.5	

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Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-009A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G110	8/9/2023	10:22	1022	14.16		16	60.8	6.74	1204.2	1204.2	1.46	9.43	124.7	
G110	8/9/2023	10:25	1025	14.16		16.1	60.98	6.73	1209.9	1209.9	1.26	7.1	123	
G110	8/9/2023	10:28	1028	14.16		16.1	60.98	6.73	1210.9	1210.9	1.33	9.14	121	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-010A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G111	8/9/2023	10:41	1041	14.95		16.1	60.98	7.04	1228.8	1228.8	2.3	9.47	138.4	
G111	8/9/2023	10:44	1044	14.95		16.2	61.16	6.96	1181.1	1181.1	1.36	5.44	135.7	
G111	8/9/2023	10:47	1047	14.95		16.2	61.16	6.94	1179.7	1179.7	1.17	4.94	135	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G119	8/9/2023	11:26	1126	15.65		16.4	61.52	7.12	943.7	943.7	2.4	14.31	151	
G119	8/9/2023	11:29	1129	15.65		16.5	61.7	7.1	941.1	941.1	2	15.55	151.2	
G119	8/9/2023	11:32	1132	15.65		16.4	61.52	7.1	942.6	942.6	1.69	18.75	150.9	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G120	8/9/2023	11:43	1143	16.31		18.6	65.48	7.25	1101.7	1101.7	7.77	9.79	158.4	
G120	8/9/2023	11:46	1146	16.31		16.4	61.52	7.07	1167	1167	3.91	9.91	160.2	
G120	8/9/2023	11:49	1149	16.31		16.4	61.52	6.99	1168.8	1168.8	3.79	16.25	160.6	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-013A													
Well ID	JC,JR													
Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G121	8/9/2023	12:10	1210	18.4		16.4	61.52	6.92	1262.7	1262.7	3.63	21.19	164.7	
G121	8/9/2023	12:13	1213	18.4		16.4	61.52	6.89	1270.5	1270.5	3.03	16.92	165.2	
G121	8/9/2023	12:16	1216	18.4		16.4	61.52	6.89	1274	1274	2.4	13.09	164.8	
G121	8/9/2023	12:19	1219	18.4		16.2	61.16	6.89	1274.6	1274.6	2.07	11.92	164.3	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G122	8/9/2023	12:31	1231	19.54		16.7	62.06	7.06	1668.6	1668.6	4.74	9.44	170.9	
G122	8/9/2023	12:34	1234	19.54		15.6	60.08	6.84	1609.6	1609.6	2.32	6.21	171.1	
G122	8/9/2023	12:37	1237	19.54		15.5	59.9	6.77	1614.8	1614.8	2.21	9.19	171.1	

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-015A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G123	8/9/2023	12:51	1251	18.57		15.6	60.08	7.03	1264.1	1264.1	2.42	9.84	134.5	
G123	8/9/2023	12:54	1254	18.57		15.3	59.54	7.02	1280.7	1280.7	1.66	7.4	128.4	
G123	8/9/2023	12:57	1257	18.57		15.3	59.54	7.01	1275	1275	1.51	10.26	124.7	

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-016A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G124	8/9/2023	13:07	1307	18.49		18.4	65.12	7.37	1097.8	1097.8	8.04	9.42	132.6	
G124	8/9/2023	13:10	1310	18.49		15.5	59.9	7.15	1162.7	1162.7	1.95	6.84	138.4	
G124	8/9/2023	13:13	1313	18.49		15.5	59.9	7.09	1147.8	1147.8	2.72	8.55	139.3	

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-017A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G125	8/9/2023	13:21	1321	18.53		16	60.8	7.25	1190.5	1190.5	6.06	4.87	149	
G125	8/9/2023	13:24	1324	18.53		15.4	59.72	7.16	1172.5	1172.5	4.27	3.44	151.3	
G125	8/9/2023	13:27	1327	18.53		15.5	59.9	7.15	1161.3	1161.3	4.64	7.25	151.9	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-018A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G126	8/9/2023	13:55	1355	10.93		16.7	62.06	7.27	1186.8	1186.8	4.06	5.74	146.7	
G126	8/9/2023	13:58	1358	10.93		16.2	61.16	7.09	1184.8	1184.8	1.79	5.07	146.4	
G126	8/9/2023	14:01	1401	10.93		16.5	61.7	7.05	1178.4	1178.4	2.17	4.66	145.9	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G151	8/10/2023	10:04	1004	12.22		16.1	60.98	7.15	1228.9	1228.9	1.99	9.9	120.9	
G151	8/10/2023	10:07	1007	12.22		16	60.8	7.14	1213.3	1213.3	2	6.01	119.4	
G151	8/10/2023	10:10	1010	12.22		16.2	61.16	7.14	1214.2	1214.2	2.04	3.34	119	

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Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-020A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G152	8/10/2023	12:03	1203	12.4		15.8	60.44	7.07	1157.3	1157.3	1.03	110.81	19.2	
G152	8/10/2023	12:06	1206	12.4		15.8	60.44	7.05	1174	1174	1.28	139.26	21.3	
G152	8/10/2023	12:09	1209	12.4		16	60.8	7	1257.2	1257.2	1.45	303.89	22.6	

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-021A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G153	8/10/2023	11:32	1132	13.08		16.7	62.06	6.71	5483.7	5483.7	1.05	10.62	4.5	
G153	8/10/2023	11:35	1135	13.08		16.7	62.06	6.72	5445.8	5445.8	1.01	7.56	2.2	
G153	8/10/2023	11:38	1138	13.08		16.7	62.06	6.73	5394.8	5394.8	0.97	6.15	3.8	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-022A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G154	8/10/2023	11:04	1104	14.6		16.2	61.16	7.31	893.8	893.8	2.47	33.54	120.1	
G154	8/10/2023	11:07	1107	14.6		16.2	61.16	7.3	892.2	892.2	2.74	20.46	120.9	
G154	8/10/2023	11:10	1110	14.6		16.3	61.34	7.31	889.8	889.8	3	14.72	121.6	
G154	8/10/2023	11:13	1113	14.6		16.2	61.16	7.3	890.8	890.8	2.84	12.36	122.2	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-023A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G155	8/10/2023	10:40	1040	13.21		16.8	62.24	7.17	1217	1217	2.76	17.69	113.4	
G155	8/10/2023	10:43	1043	13.21		16.7	62.06	7.17	1217.6	1217.6	2.39	140.66	114.7	
G155	8/10/2023	10:46	1046	13.21		16.6	61.88	7.16	1219.7	1219.7	2.01	448.4	115.8	

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-024A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

G200

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G206	8/14/2023	11:46	1146	13.89		15.9	60.62	6.96	1122.7	1122.7	1.67	5.91	-149.1	
G206	8/14/2023	11:49	1149	13.89		16	60.8	6.93	1123.5	1123.5	1.04	3.68	-184.6	
G206	8/14/2023	11:52	1152	13.89		16.1	60.98	6.93	1115.4	1115.4	0.9	3.11	-187.9	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-026A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G206D	8/14/2023	11:28	1128	30.04		15.8	60.44	6.84	1388.1	1388.1	1.39	4.34	50.3	
G206D	8/14/2023	11:31	1131	30.04		15.5	59.9	6.88	1387.9	1387.9	0.78	9.25	-16.9	
G206D	8/14/2023	11:34	1134	30.04		15.4	59.72	6.94	1384.2	1384.2	0.66	6.89	-48.1	

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-027A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G207	8/15/2023	9:07	0907	14.2		16.4	61.52	6.34	1135.2	1135.2	1.87	53.97	130	
G207	8/15/2023	9:10	0910	14.2		17.2	62.96	6.52	1136	1136	1.58	43.29	104.6	
G207	8/15/2023	9:13	0913	14.2		17.5	63.5	6.61	1136.7	1136.7	1.47	41.59	88.1	

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G208	8/14/2023	11:03	1103	14.08		15.8	60.44	7.05	727.3	727.3	1.47	3.53	103.8	
G208	8/14/2023	11:06	1106	14.08		15.9	60.62	6.95	727.1	727.1	1.32	3.1	105.3	
G208	8/14/2023	11:09	1109	14.08		16	60.8	6.91	726.4	726.4	1.45	1.82	106.5	

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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-029A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G209	8/14/2023	10:40	1040	13.79		15.6	60.08	6.66	1645.8	1645.8	1.46	7.11	131.7	
G209	8/14/2023	10:43	1043	13.79		15.5	59.9	6.61	1636.6	1636.6	0.89	3.46	103.7	
G209	8/14/2023	10:46	1046	13.79		15.4	59.72	6.6	1635.8	1635.8	0.78	3.09	83.7	

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-030A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G210	8/14/2023	10:23	1023	13.27		16.5	61.7	7.77	1196.4	1196.4	2.85	5.79	90.9	
G210	8/14/2023	10:26	1026	13.27		15.9	60.62	7.1	1181.6	1181.6	1.92	5.48	119.8	
G210	8/14/2023	10:29	1029	13.27		15.9	60.62	6.92	1180.2	1180.2	1.19	5.18	131.1	

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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G211	8/14/2023	12:27	1227	13.44		15.7	60.26	6.91	1065.1	1065.1	0.66	27.41	20.1	
G211	8/14/2023	12:30	1230	13.44		15.8	60.44	6.91	1063.8	1063.8	0.63	23.39	18.5	
G211	8/14/2023	12:33	1233	13.44		15.7	60.26	6.9	1065.8	1065.8	0.6	18.82	17.2	
G211	8/14/2023	12:36	1236	13.44		15.6	60.08	6.9	1067.1	1067.1	0.59	16.82	16.2	

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G212	8/10/2023	15:22	1522	14.61		19.6	67.28	7.32	911	911	6.18	4.44	73.8	
G212	8/10/2023	15:25	1525	14.61		18	64.4	7.27	910.5	910.5	3.6	3.83	63	
G212	8/10/2023	15:28	1528	14.61		17.6	63.68	7.22	905.7	905.7	2.95	3.86	68.2	

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COFFEEN POWER PLANT, ASH POND NO. 1
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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G213	8/10/2023	15:02	1502	15.05		19.7	67.46	7.46	904.7	904.7	4.43	8.09	100.3	
G213	8/10/2023	15:05	1505	15.05		17.8	64.04	7.25	884.7	884.7	2.24	9.85	101.4	
G213	8/10/2023	15:08	1508	15.05		17.6	63.68	7.16	876.7	876.7	1.78	7.43	101.6	

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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-034A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G214	8/10/2023	14:35	1435	17.64		20	68	7.7	1212.2	1212.2	6.38	7.07	106.5	
G214	8/10/2023	14:44	1444	17.64		17.5	63.5	7.17	1219.9	1219.9	1.31	9.91	94	
G214	8/10/2023	14:47	1447	17.64		17.6	63.68	7.14	1219.2	1219.2	1.2	6.04	91.6	
G214	8/10/2023	14:50	1450	17.64		17.6	63.68	7.13	1224.7	1224.7	1.1	6.04	89.7	

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G215	8/10/2023	14:07	1407	17.22		15.6	60.08	6.98	2335	2335	0.82	22.1	100.4	
G215	8/10/2023	14:10	1410	17.22		15.6	60.08	6.97	2325.4	2325.4	0.77	14.5	98.2	
G215	8/10/2023	14:13	1413	17.22		15.5	59.9	6.96	2325	2325	0.77	11.05	95.5	
G215	8/10/2023	14:16	1416	17.22		15.6	60.08	6.95	2327	2327	0.71	8.26	92.7	

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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G216	8/10/2023	13:41	1341	16.51		17.2	62.96	6.97	2897.4	2897.4	1.9	9.91	45.9	
G216	8/10/2023	13:44	1344	16.51		17	62.6	6.95	2892.3	2892.3	1.57	4.78	27.1	
G216	8/10/2023	13:47	1347	16.51		16.5	61.7	6.95	2888.5	2888.5	1.35	4.01	17	

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G217	8/10/2023	13:19	1319	18.29		15.6	60.08	6.94	1964.3	1964.3	1.35	12.87	82.7	
G217	8/10/2023	13:22	1322	18.29		15.7	60.26	6.93	1968.7	1968.7	1.17	8.77	79.7	
G217	8/10/2023	13:25	1325	18.29		15.6	60.08	6.92	1968.2	1968.2	1.03	7.19	77.1	

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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G218	8/10/2023	12:47	1247	16.98		15.5	59.9	7.04	1902.4	1902.4	1.12	18.46	96.6	
G218	8/10/2023	12:50	1250	16.98		15.4	59.72	6.97	1956.1	1956.1	0.94	21.41	82.3	
G218	8/10/2023	12:53	1253	16.98		15.2	59.36	6.94	1995.5	1995.5	0.76	22.07	70.1	

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-039A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G270	8/14/2023	13:39	1339	8.52		15.5	59.9	6.89	936.9	936.9	1.87	10	77.5	
G270	8/14/2023	13:42	1342	8.52		15.3	59.54	6.86	936.3	936.3	1.81	6.53	77.6	
G270	8/14/2023	13:45	1345	8.52		15.2	59.36	6.84	935.7	935.7	1.64	5.26	77.7	

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-040A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G271	8/14/2023	13:09	1309	11.2		17.2	62.96	6.98	1164.4	1164.4	3.24	5.25	76.5	
G271	8/14/2023	13:12	1312	11.2		17.4	63.32	7	1169.4	1169.4	3.65	12.7	76	
G271	8/14/2023	13:15	1315	11.2		17.2	62.96	6.97	1187.5	1187.5	3.16	10.18	75.2	

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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G272	8/14/2023	14:05	1405	10.55		17.6	63.68	6.93	1838.7	1838.7	1.47	9.39	92.7	
G272	8/14/2023	14:08	1408	10.55		17.9	64.22	6.9	1617.7	1617.7	1.64	4.03	90.7	
G272	8/14/2023	14:11	1411	10.55		18	64.4	6.9	1619.9	1619.9	1.98	3.07	90.4	

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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-042A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G273	8/14/2023	14:26	1426	11.56		16.9	62.42	6.89	2069.2	2069.2	1.56	9.28	107.1	
G273	8/14/2023	14:29	1429	11.56		16.7	62.06	6.79	2047.3	2047.3	1.21	3.98	104.7	
G273	8/14/2023	14:32	1432	11.56		16.6	61.88	6.76	2056.1	2056.1	1.06	2.18	102.8	

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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G274	8/14/2023	11:54	1154	14.99		15.8	60.44	7.9	1491.8	1491.8	2.2	6.95	-9.1	
G274	8/14/2023	11:57	1157	14.99		15.7	60.26	7.65	1612.6	1612.6	2.33	12.33	-4.6	
G274	8/14/2023	12:00	1200	14.99		15.6	60.08	7.53	1691.3	1691.3	2.16	9.78	-1.2	

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-044A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

G275

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-045A													
Well ID	JC,JR													
Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G275D	8/14/2023	11:13	1113	31.27		15.7	60.26	7.46	2485.3	2485.3	0.68	12.48	-119.1	
G275D	8/14/2023	11:16	1116	31.27		15.5	59.9	7.48	2483.4	2483.4	0.57	14.4	-124.5	
G275D	8/14/2023	11:19	1119	31.27		15.6	60.08	7.51	2485.7	2485.7	0.54	14.23	-132	

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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G276	8/14/2023	12:29	1229	27.75		15.6	60.08	7.2	2217.8	2217.8	2.87	4.4	32.3	
G276	8/14/2023	12:32	1232	27.75		16	60.8	7.17	2200.8	2200.8	1.85	4.67	33.5	
G276	8/14/2023	12:35	1235	27.75		16.2	61.16	7.16	2193.7	2193.7	1.6	9.03	33.6	

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-047A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

G277

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-048A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

G278

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-049A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

G279

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-050A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G280	8/14/2023	14:52	1452	5.8		15.4	59.72	7.46	1477.7	1477.7	1.01	9.56	30.9	
G280	8/14/2023	14:55	1455	5.8		15.5	59.9	7.46	1477.3	1477.3	1	8.83	30.9	
G280	8/14/2023	14:58	1458	5.8		15.5	59.9	7.45	1479.7	1479.7	1.01	8.52	30.9	

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-051A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G281	8/14/2023	16:00	1600	6.39		18.7	65.66	6.8	1731.6	1731.6	0.94	9.75	101.3	
G281	8/14/2023	16:03	1603	6.39		18.5	65.3	6.78	1736.2	1736.2	1.34	6.54	101.3	
G281	8/14/2023	16:06	1606	6.39		18.6	65.48	6.76	1742.6	1742.6	1.74	6.36	101.6	

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G283	8/15/2023	11:33	1133	7.45		14.8	58.64	7.11	2101.1	2101.1	0.62	36.1	-59.5	
G283	8/15/2023	11:36	1136	7.45		14.8	58.64	7.09	2102.7	2102.7	0.58	21.89	-63.6	
G283	8/15/2023	11:39	1139	7.45		14.8	58.64	7.07	2101.1	2101.1	0.55	13.24	-66	
G283	8/15/2023	11:42	1142	7.45		14.8	58.64	7.07	2100.6	2100.6	0.53	10.82	-68.9	
G283	8/15/2023	11:45	1145	7.45		14.8	58.64	7.07	2098.9	2098.9	0.53	10.21	-71	

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COFFEEN POWER PLANT, ASH POND NO. 1
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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters														
LIMS Workorder	Coffeen 3Q														
Technician	23071810-053A														
Well ID	JC,JR														
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	
G284	8/15/2023	10:04	1004	12.28		17	62.6	7.12	1951.8	1951.8	4.74	10.72	125.6		
G284	8/15/2023	10:07	1007	12.28		17	62.6	7.15	1942.5	1942.5	4.22	6.97	125.9		
G284	8/15/2023	10:10	1010	12.28		17	62.6	7.16	1930.2	1930.2	4.05	6.02	126.4		

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COFFEEN POWER PLANT, ASH POND NO. 1
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Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-054A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G285	8/15/2023	10:58	1058	8.44		14.2	57.56	6.89	3444.1	3444.1	1.08	27.01	94.5	
G285	8/15/2023	11:01	1101	8.44		14.2	57.56	6.75	3431.9	3431.9	0.76	11.43	64.2	
G285	8/15/2023	11:04	1104	8.44		14.3	57.74	6.72	3429.4	3429.4	0.69	7.32	54.2	

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-055A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

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Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-056A
Technician	JC,JR
Well ID	Date

Groundwater Sampling Field Form - Groundwater Quality Parameters

Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
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Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-057A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-058A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G301	8/9/2023	11:04	1104	8.11		16.6	61.88	6.41	2194	2194	0.48	24.34	-112.1	
G301	8/9/2023	11:07	1107	8.11		16.5	61.7	6.38	2195.7	2195.7	0.46	15.43	-104.8	
G301	8/9/2023	11:10	1110	8.11		16.5	61.7	6.37	2194.6	2194.6	0.45	11.43	-99.3	
G301	8/9/2023	11:13	1113	8.11		16.5	61.7	6.36	2193.8	2193.8	0.44	8.36	-95.6	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-059A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G302	8/9/2023	11:46	1146	12.68		16.2	61.16	6.57	2678.9	2678.9	1.84	9.54	-106.5	
G302	8/9/2023	11:49	1149	12.68		16.1	60.98	6.5	2450.4	2450.4	1.76	9.49	-96.7	
G302	8/9/2023	11:52	1152	12.68		16.1	60.98	6.49	2450.7	2450.7	2.3	11.49	-87.1	
G302	8/9/2023	11:55	1155	12.68		16	60.8	6.49	2460.5	2460.5	2.22	8.1	-79.8	

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Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-060A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G303	8/9/2023	15:11	1511	8.4		15.5	59.9	6.79	3732	3732	2.14	20	-82.7	
G303	8/9/2023	15:14	1514	8.4		15.5	59.9	6.79	3715.9	3715.9	1.99	28.48	-87.5	
G303	8/9/2023	15:17	1517	8.4		15.6	60.08	6.81	3707.9	3707.9	2.25	30.54	-92.1	
G303	8/9/2023	15:20	1520	8.4		15.5	59.9	6.8	3749	3749	2.2	41.55	-90.6	
G303	8/9/2023	15:23	1523	8.4		15.5	59.9	6.81	3723.9	3723.9	2.09	39.09	-91.2	
G303	8/9/2023	15:26	1526	8.4		15.4	59.72	6.8	3751	3751	2.18	43.08	-90.7	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G305	8/10/2023	12:24	1224	9.19		15.9	60.62	7.3	3258.4	3258.4	1.63	11.05	-88.9	
G305	8/10/2023	12:27	1227	9.19		15.4	59.72	7.31	3222.1	3222.1	1.57	16.3	-62.1	
G305	8/10/2023	12:30	1230	9.19		15.4	59.72	7.3	3223.4	3223.4	1.51	15.19	-51.9	
G305	8/10/2023	12:33	1233	9.19		15.4	59.72	7.29	3222.7	3222.7	1.66	14.92	-45.3	
G305	8/10/2023	12:36	1236	9.19		15.4	59.72	7.3	3225.9	3225.9	1.76	13.09	-41.1	

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COFFEEN POWER PLANT, ASH POND NO. 1
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Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-062A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G306	8/10/2023	10:16	1016	9.7		14.7	58.46	6.39	1088.6	1088.6	2.02	7.53	128.4	
G306	8/10/2023	10:19	1019	9.7		14.7	58.46	6.26	1249	1249	1.85	8.72	136.5	
G306	8/10/2023	10:22	1022	9.7		14.7	58.46	6.21	1242.2	1242.2	2.02	8.6	140.3	
G306	8/10/2023	10:25	1025	9.7		14.7	58.46	6.18	1237.1	1237.1	2.22	11.73	142.3	
G306	8/10/2023	10:28	1028	9.7		14.6	58.28	6.19	1255.4	1255.4	1.92	34.88	143.6	
G306	8/10/2023	10:31	1031	9.7		14.5	58.1	6.17	1236.5	1236.5	1.53	92.43	144.1	
G306	8/10/2023	10:45	1045	9.7		15	59	6.24	1280	1280	2.93	693.42	136.5	
G306	8/10/2023	10:49	1049	9.7		14.6	58.28	6.16	1198.4	1198.4	2.57	452.13	138.6	
G306	8/10/2023	10:52	1052	9.7		14.6	58.28	6.15	1196.3	1196.3	2.84	419.38	140.4	
G306	8/10/2023	10:55	1055	9.7		14.6	58.28	6.14	1204.2	1204.2	2.77	359.89	141.5	
G306	8/10/2023	10:58	1058	9.7		14.6	58.28	6.15	1211	1211	2.74	332.08	141.7	
G306	8/10/2023	11:01	1101	9.7		14.5	58.1	6.16	1217.8	1217.8	2.76	320.29	142.7	

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-063A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

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Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-064A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G307D	8/10/2023	12:06	1206	7.89		19.9	67.82	7.16	2582.9	2582.9	0.82	23.53	-64.9	
G307D	8/10/2023	12:09	1209	7.89		19.8	67.64	7.17	2580.5	2580.5	0.8	22.16	-67.4	
G307D	8/10/2023	12:12	1212	7.89		19.8	67.64	7.17	2580.7	2580.7	0.79	19.76	-70.2	

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COFFEEN POWER PLANT, ASH POND NO. 1
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Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-065A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G308	8/10/2023	12:54	1254	5.09		16.5	61.7	7.27	3513.5	3513.5	0.55	18.37	1.6	
G308	8/10/2023	12:57	1257	5.09		16.3	61.34	7.26	3507.1	3507.1	0.51	10.97	-1.3	
G308	8/10/2023	13:00	1300	5.09		16.2	61.16	7.26	3503.9	3503.9	0.49	8.98	-3	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-066A
Technician	JC,JR
Well ID	Date

Groundwater Sampling Field Form - Groundwater Quality Parameters

Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-067A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G310	8/9/2023	10:27	1027	10.3		15.5	59.9	6.95	2641.3	2641.3	0.52	1.84	95	
G310	8/9/2023	10:30	1030	10.3		15.4	59.72	6.86	2642.9	2642.9	0.5	1.33	97.6	
G310	8/9/2023	10:33	1033	10.3		15.5	59.9	6.81	2640.2	2640.2	0.49	1.27	98.9	
G310	8/9/2023	10:36	1036	10.3		15.5	59.9	6.78	2641.5	2641.5	0.48	1.13	99.4	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-068A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G312	8/9/2023	12:19	1219	14		16.7	62.06	6.08	3296.9	3296.9	0.6	20.31	2.3	
G312	8/9/2023	12:22	1222	14		16.7	62.06	6.08	3524.2	3524.2	0.56	14.91	3.5	
G312	8/9/2023	12:25	1225	14		16.7	62.06	6.08	3722.4	3722.4	0.54	10.85	3.9	
G312	8/9/2023	12:28	1228	14		16.6	61.88	6.1	3871.4	3871.4	0.53	8.2	3.4	

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COFFEEN POWER PLANT, ASH POND NO. 1
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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G313	8/9/2023	14:03	1403	3.01		18.1	64.58	6.69	3374.1	3374.1	0.48	21.91	-37.9	
G313	8/9/2023	14:03	1403	3.01		18.1	64.58	6.69	3374.6	3374.6	0.48	21.57	-37.9	
G313	8/9/2023	14:06	1406	3.01		18.1	64.58	6.69	3374.6	3374.6	0.46	13.72	-37.6	
G313	8/9/2023	14:09	1409	3.01		18.1	64.58	6.68	3375.9	3375.9	0.45	12.4	-37	
G313	8/9/2023	14:12	1412	3.01		18.1	64.58	6.68	3376.8	3376.8	0.44	9.32	-36.3	

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Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-070A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G314	8/9/2023	14:27	1427	4.88		16.1	60.98	6.39	6749	6749	0.57	10.35	-43.1	
G314	8/9/2023	14:27	1427	4.88		16.2	61.16	6.39	6747.9	6747.9	0.56	11.92	-42.3	
G314	8/9/2023	14:30	1430	4.88		16.4	61.52	6.39	6710.6	6710.6	0.47	50.38	-39.7	
G314	8/9/2023	14:33	1433	4.88		16.7	62.06	6.39	6681.4	6681.4	0.45	2.24	-41.1	

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Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-071A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G314D	8/9/2023	14:47	1447	7.78		15.1	59.18	6.76	5244.2	5244.2	0.67	21.77	-28.7	
G314D	8/9/2023	14:50	1450	7.78		15.2	59.36	6.78	5239.2	5239.2	0.91	11.63	-39.8	
G314D	8/9/2023	14:53	1453	7.78		15.1	59.18	6.8	5231.5	5231.5	0.64	9.63	-45.2	

APPENDIX A.
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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-072A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G315	8/10/2023	11:23	1123	3.5		16	60.8	6.65	2601.7	2601.7	0.88	19.13	106.9	
G315	8/10/2023	11:26	1126	3.5		15.8	60.44	6.67	2599.3	2599.3	0.8	13.24	103.3	
G315	8/10/2023	11:29	1129	3.5		16.1	60.98	6.69	2599.6	2599.6	0.81	9.22	98.2	

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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G316	8/9/2023	13:31	1331	11.7		16.3	61.34	6.73	3672.4	3672.4	0.5	12.06	-105.6	
G316	8/9/2023	13:34	1334	11.7		16.3	61.34	6.73	3692.6	3692.6	0.49	1.51	-108.8	
G316	8/9/2023	13:37	1337	11.7		16.2	61.16	6.74	3701.7	3701.7	0.51	39.31	-111.3	
G316	8/9/2023	13:40	1340	11.7		16.2	61.16	6.73	3728.2	3728.2	0.69	20.35	-112.5	
G316	8/9/2023	13:43	1343	11.7		16.1	60.98	6.73	3742.6	3742.6	0.53	9.87	-114.1	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-074A
Technician	JC,JR
Well ID	Date

Groundwater Sampling Field Form - Groundwater Quality Parameters

Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
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G317

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-075A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G401	8/11/2023	11:13	1113	21.75		18	64.4	6.05	4939.5	4939.5	0.63	24.54	-33.5	
G401	8/11/2023	11:16	1116	21.75		17.8	64.04	6.04	4940.7	4940.7	0.58	31.39	-32.7	
G401	8/11/2023	11:19	1119	21.75		17.5	63.5	6.02	4931	4931	0.54	18.56	-31.8	
G401	8/11/2023	11:22	1122	21.75		17.5	63.5	5.98	4906.9	4906.9	0.5	6.79	-29.8	

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G402	8/11/2023	12:00	1200	11.65		18.1	64.58	7.23	2804	2804	7.91	72.7	11.9	
G402	8/11/2023	12:03	1203	11.65		18	64.4	7.26	2815.2	2815.2	8.01	63.45	16.1	
G402	8/11/2023	12:06	1206	11.65		18	64.4	7.28	2827.4	2827.4	8.16	63.86	19.9	
G402	8/11/2023	12:09	1209	11.65		18.1	64.58	7.29	2822.2	2822.2	8.19	80.95	23.1	

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-077A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G403	8/11/2023	10:39	1039	7.45		18.6	65.48	7.06	1162.3	1162.3	2.83	19.03	-0.6	
G403	8/11/2023	10:42	1042	7.45		19.3	66.74	7.06	1165.5	1165.5	3.02	19.35	-5.8	
G403	8/11/2023	10:45	1045	7.45		19.1	66.38	7.08	1168.4	1168.4	3.03	17.35	-7.7	
G403	8/11/2023	10:48	1048	7.45		18.7	65.66	7.09	1167.5	1167.5	3.03	15.43	-8.1	
G403	8/11/2023	10:51	1051	7.45		18.7	65.66	7.09	1168.7	1168.7	3.06	8.33	-7.6	

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G404	8/14/2023	15:40	1540	5.62		19.3	66.74	6.83	2672.4	2672.4	0.49	9.46	67.3	
G404	8/14/2023	15:43	1543	5.62		19.4	66.92	6.79	2762.4	2762.4	0.47	7.19	67.3	
G404	8/14/2023	15:46	1546	5.62		19.4	66.92	6.77	2818.9	2818.9	0.48	5.21	65.9	

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-079A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G405	8/11/2023	12:32	1232	6.85		18.9	66.02	7.29	3092.5	3092.5	2.1	11.87	-16.2	
G405	8/11/2023	12:35	1235	6.85		18.5	65.3	7.16	3317.3	3317.3	2.07	11.46	-25.5	
G405	8/11/2023	12:38	1238	6.85		18.3	64.94	7.11	3374.9	3374.9	1.98	7.74	-24.2	
G405	8/11/2023	12:41	1241	6.85		18.2	64.76	7.09	3392.5	3392.5	1.83	4.72	-21.4	

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-080A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G406	8/11/2023	10:04	1004	11.49		18.9	66.02	6.87	2309.5	2309.5	3.86	6.51	69	
G406	8/11/2023	10:07	1007	11.49		19.7	67.46	6.83	2313.5	2313.5	3.91	6.63	74.4	
G406	8/11/2023	10:10	1010	11.49		17.7	63.86	6.77	2296.2	2296.2	2.45	3.59	78.5	
G406	8/11/2023	10:13	1013	11.49		16.9	62.42	6.73	2273.7	2273.7	2.27	4.1	80.7	

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COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G407	8/10/2023	14:23	1423	8.79		19	66.2	6.83	4020.7	4020.7	0.84	11.83	10.4	
G407	8/10/2023	14:26	1426	8.79		18.9	66.02	6.84	3951.6	3951.6	0.86	11.76	10.6	
G407	8/10/2023	14:29	1429	8.79		19	66.2	6.84	3963	3963	0.84	12.12	11.1	
G407	8/10/2023	14:32	1432	8.79		19.2	66.56	6.83	3982.7	3982.7	0.8	9.8	11.6	

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G410	8/10/2023	14:49	1449	9.66		17.7	63.86	6.81	2562.9	2562.9	1.52	3.64	1.9	
G410	8/10/2023	14:52	1452	9.66		18.6	65.48	6.66	2248.1	2248.1	1.87	3.07	4.3	
G410	8/10/2023	14:55	1455	9.66		18.8	65.84	6.62	2282.9	2282.9	1.98	2.88	4.4	
G410	8/10/2023	14:58	1458	9.66		19	66.2	6.64	2343.6	2343.6	2.04	2.71	-0.5	

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-083A													
Well ID	JC, JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G411	8/10/2023	15:15	1515	8.69		15.7	60.26	7.74	1499.2	1499.2	1.08	9.27	-3.3	
G411	8/10/2023	15:18	1518	8.69		15.7	60.26	7.51	1581.1	1581.1	0.68	3.93	-0.2	
G411	8/10/2023	15:21	1521	8.69		15.7	60.26	7.44	1620.3	1620.3	0.6	4.1	-0.3	
G411	8/10/2023	15:24	1524	8.69		15.7	60.26	7.42	1631.5	1631.5	0.55	4.3	-1.2	

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-084A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

G1001

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-085A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

G1003

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-086A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

L203

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-087A
Technician	JC,JR
Well ID	Date

Groundwater Sampling Field Form - Groundwater Quality Parameters

Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
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MW03D

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-088A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

MW11D

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-089A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

MW11S

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-090A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

MW12D

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-091A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

MW16D

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-092A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

MW16S

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-093A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

MW205

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder	Coffeen 3Q													
Technician	23071810-094A													
Well ID	JC,JR													
Date		Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
NE RISER	8/15/2023	13:06	1306	NA		23.7	74.66	5.33	29297	29297	3.75	10.35	240.9	
NE RISER	8/15/2023	13:09	1309	NA		19.5	67.1	6.84	28434.9	28434.9	0.7	5.81	197.2	
NE RISER	8/15/2023	13:12	1312	NA		19.2	66.56	7	28401.7	28401.7	0.56	4.66	178	

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
R104	8/10/2023	8:34	0834	10.45		16.8	62.24	6.87	1062	1062	3.23	8.51	174.2	
R104	8/10/2023	8:37	0837	10.45		16.4	61.52	7.07	1038.4	1038.4	2.3	2.65	169	
R104	8/10/2023	8:40	0840	10.45		16.6	61.88	7.08	1035	1035	2.5	2.45	167.4	

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-096A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

R201

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-097A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
R205	8/14/2023	15:19	1519	9.69		16.6	61.88	6.65	1849.9	1849.9	1.01	34.9	95.6	
R205	8/14/2023	15:22	1522	9.69		16.5	61.7	6.57	1853.9	1853.9	0.92	19.73	95.4	
R205	8/14/2023	15:25	1525	9.69		16.4	61.52	6.55	1853.1	1853.1	0.92	12.62	94.3	
R205	8/14/2023	15:28	1528	9.69		16.5	61.7	6.54	1850.3	1850.3	0.95	9.72	92.8	
R205	8/14/2023	15:31	1531	9.69		16.5	61.7	6.54	1844.1	1844.1	1.09	9.27	91.4	
R205	8/14/2023	15:34	1534	9.69		16.4	61.52	6.54	1844.8	1844.8	1.09	8.29	90.1	

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-098A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

SG-02

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-099A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

SG-03

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-100A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

SG-04

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
T127	8/9/2023	11:01	1101	15.2		16.1	60.98	7.13	1054.2	1054.2	3.66	6.95	147.7	
T127	8/9/2023	11:04	1104	15.2		15.7	60.26	7	1055.3	1055.3	1.36	11.77	147.9	
T127	8/9/2023	11:07	1107	15.2		15.7	60.26	6.97	1057.7	1057.7	0.9	8.05	147.5	

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-102A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
T128	8/9/2023	14:10	1410	14.8		16.2	61.16	7.21	953	953	4.65	7.56	148.6	
T128	8/9/2023	14:13	1413	14.8		15.6	60.08	7.06	952.6	952.6	2.44	11.6	145.5	
T128	8/9/2023	14:16	1416	14.8		15.6	60.08	7.02	949.2	949.2	1.84	2.6	142	

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-103A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
X201	8/15/2023	12:53	1253			26.2	79.16	4.39	37586.6	37586.6	7.66	5.41	229.1	

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-104A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
XPW01	8/10/2023	13:16	1316	5.29		18.5	65.3	7.56	2395.6	2395.6	0.59	13.77	-67.7	
XPW01	8/10/2023	13:19	1319	5.29		18.4	65.12	7.63	2407.1	2407.1	0.5	5.03	-90.6	
XPW01	8/10/2023	13:22	1322	5.29		18.3	64.94	7.66	2416.6	2416.6	0.47	3.47	-103.6	

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-105A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
XPW02	8/10/2023	13:39	1339	10.3		18.7	65.66	7.58	1247.1	1247.1	0.54	8.94	-93.1	
XPW02	8/10/2023	13:42	1342	10.3		18.7	65.66	7.58	1283.6	1283.6	0.49	4.02	-104.6	
XPW02	8/10/2023	13:45	1345	10.3		18.7	65.66	7.58	1281.9	1281.9	0.46	2.61	-111.2	

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-106A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

XSG-01

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-107A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

FB

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-108A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G102 DUP	8/9/2023	15:01	1501	10.3		17.3	63.14	7.45	880.9	880.9	4.82	7.47	148.4	
G102 DUP	8/9/2023	15:04	1504	10.3		15.8	60.44	7.27	1192	1192	1.33	20.67	157.6	
G102 DUP	8/9/2023	15:07	1507	10.3		15.9	60.62	7.25	1155.5	1155.5	1.09	10.94	156.2	

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-109A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

G200 DUP

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-110A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G273 DUP	8/14/2023	14:26	1426	11.6		16.9	62.42	6.89	2069.2	2069.2	1.56	9.28	107.1	
G273 DUP	8/14/2023	14:29	1429	11.6		16.7	62.06	6.79	2047.3	2047.3	1.21	3.98	104.7	
G273 DUP	8/14/2023	14:32	1432	11.6		16.6	61.88	6.76	2056.1	2056.1	1.06	2.18	102.8	

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-111A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G301 DUP	8/9/2023	11:04	1104	8.11		16.6	61.88	6.41	2194	2194	0.48	24.34	-112.1	
G301 DUP	8/9/2023	11:07	1107	8.11		16.5	61.7	6.38	2195.7	2195.7	0.46	15.43	-104.8	
G301 DUP	8/9/2023	11:10	1110	8.11		16.5	61.7	6.37	2194.6	2194.6	0.45	11.43	-99.3	
G301 DUP	8/9/2023	11:13	1113	8.11		16.5	61.7	6.36	2193.8	2193.8	0.44	8.36	-95.6	

Site Sampling Event	Coffeen 3Q													
LIMS Workorder	23071810-112A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	Sp Cond (μmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)

R201 DUP

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q	Groundwater Sampling Field Form - Groundwater Quality Parameters												
LIMS Workorder	23071810-113A													
Technician	JC,JR													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G308 (resample)	9/19/2023	10:54	1054	6.22		18.2	64.76	7.07	2183.5	2183.5	0.34	2.61	74.6	
G308 (resample)	9/19/2023	10:57	1057	6.22		18.2	64.76	7.08	2188.9	2188.9	0.27	2.5	68.8	
G308 (resample)	9/19/2023	11:00	1100	6.22		18.3	64.94	7.08	2190.4	2190.4	0.26	2.44	64.8	

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1
COF-257-101

Site Sampling Event	Groundwater Sampling Field Form - Groundwater Quality Parameters													
LIMS Workorder														
Technician														
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
x201 (resample)	9/19/2023	10:14	1014	35.29		23.2	73.76	5.04	24945.5	24945.5	8.66	2.01	205.7	
x201 (resample)	9/19/2023	10:16	1016	35.29		22.4	72.32	5.52	25006.5	25006.5	8.67	1.39	209.4	
x201 (resample)	9/19/2023	10:17	1017	35.29		22.3	72.14	5.71	24996.5	24996.5	8.73	10.1	209.5	

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEE POWER PLANT, ASH POND NO. 1
Revised 7-22-11
907-251101

Field Analysis Log

[illegible]

**** Field Meter ID for Temp, pH & Conductivity : _____

**** Field Meter ID for () :

	SW846	Std Methods	Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer
Other: _____		<i>9040</i>	pH LCS/LCSD

Conductivity Std. _____	_____	Std. _____	_____
Conductivity Std. _____	_____	Std. _____	_____
Conductivity Std. _____	_____	Std. _____	_____
Conductivity LCS/LCSD _____	_____	LCS/LCSD _____	_____

pH Calibration		Reading		Conductivity Calibration	
	4.00	4.06	3.99	42K	µS
Date:	7.00	7.10	7.01	1474	µS 1413
Time:	10.00	10.05	10.02		mS
Field Analyst Sig & Date: <i>[Signature]</i> 8/16/23				Field Analyst Sig & Date:	
Reviewed By & Date: _____				Reviewed By & Date: _____	
Reviewed By & Date: _____		8/11		Reviewed By & Date: _____	

	Reading	units		Calibration	Reading
9.9		μS	Std	Units	
.99		μS	Std	Units	
.99		mS	Std	Units	
			Field Analyst Sig & Date:		
			Reviewed By & Date:		
			Reviewed By & Date:		

Comments:

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: _____			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units
LCS	8-9-23	22:15 0939	22.1		7.01			1422					
CCV	8-9-23	1613	23.1		7.00			1420					

**** Field Meter ID for Temp, pH & Conductivity : _____

**** Field Meter ID for (_____) : _____

Field Temp SOP 1156	SW846	Std Methods	Lot #										
pH in the Field SOP 1152	9040B	4500-H B		pH 4.0 Buffer	_____	Conductivity Std.	_____	_____	Std.	_____	_____	_____	_____
Field Cond. SOP 1155	9050A	2510 B		pH 7.0 Buffer	_____	Conductivity Std.	_____	_____	Std.	_____	_____	_____	_____
Other: _____				pH 10.0 Buffer	_____	Conductivity Std.	_____	_____	Std.	_____	_____	_____	_____
				pH LCS/LCSD _7_	_____	Conductivity LCS/LCSD	_____	_____	LCS/LCSD	_____	_____	_____	_____

pH Calibration				Conductivity Calibration							
		Reading				Reading	units			Calibration	Reading
Date: 8-9-23		4.01		_____	µS	0-199.9	µS	Std	_____	Units	_____
Time: 0921		7.00		_____	µS	0-1999	µS	Std	_____	Units	_____
		10.00		_____	mS	0-19.99	mS	Std	_____	Units	_____
Field Analyst Sig & Date: <u>PLA CW 8-9-23</u>				Field Analyst Sig & Date: <u>PLA CW 8-9-23</u>				Field Analyst Sig & Date: _____			
Reviewed By & Date: _____				Reviewed By & Date: _____				Reviewed By & Date: _____			
Reviewed By & Date: _____				Reviewed By & Date: _____				Reviewed By & Date: _____			

Comments:

Field Analysis Log

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, ASH POND NO. 1

APPENDIX A.

~~CONFIDENTIAL~~
~~COF-257-101~~

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: GOF 257-101			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/unit
LCS	8-10-23	0811	22.9		7.01			1421					
CCV	8-10-23	1555	23.1		7.02			1418					

**** Field Meter ID for Temp, pH & Conductivity :

**** Field Meter ID for () :

Field Temp SOP 1156
pH in the Field SOP 1152
Field Cond. SOP 1155
Other:

SW846 Std Methods

2550 B

Lot #

pH 4.0 Buffer

pH 7.0 Buffer

pH 10.0 Buffer

pH LCS/LCSD

Conductivity Std.

Conductivity Std.

Conductivity Std.

Conductivity LCS/LCSD

Std.

Std. _____

Std.

LCS/LCSD

		Reading
pH Calibration	4.00	4.00
Date: 8-10-23	7.00	7.01
Time: 0753	10.00	9.99

Conductivity Calibration

Reading units

Calibration	Reading
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
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42	42
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44	44
45	45
46	46
47	47
48	48
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67	67
68	68
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74	74
75	75
76	76
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78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

μS	0-199.9
----	---------

 μS

Std	Units
-----	-------

US 0-1999

1410 US

Std	Units
Std	Units

ms	0.10.00
----	---------

117

Std _____ Units _____

Std _____ Units _____

Field Analyst Sig & Date: [Signature] 8-10-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Field Analyst Sig & Date: PLS AC 8-10-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: _____			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units
LCS	8-14-23	1024	21.8		7.01			1423					
CCV	8-14-23	1638	23.4		7.02			1421					

**** Field Meter ID for Temp, pH & Conductivity : _____

**** Field Meter ID for (_____) : _____

	SW846	Std Methods	Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B		pH 4.0 Buffer		Conductivity Std. _____	
pH in the Field SOP 1152	9040B	4500-H B		pH 7.0 Buffer		Conductivity Std. _____	
Field Cond. SOP 1155	9050A	2510 B		pH 10.0 Buffer		Conductivity Std. _____	
Other: _____				pH LCS/LCSD __7__		Conductivity LCS/LCSD _____	

pH Calibration		Conductivity Calibration		Calibration	
Reading		Reading	units	Std	Units
Date: 8-14-23	4.02	_____	0-199.9	_____	_____
Time: 1006	7.01	_____	0-1999	_____	_____
	10.01	_____	0-19.99	_____	_____

Field Analyst Sig & Date: [Signature] 6/11/23
Reviewed By & Date: _____
Reviewed By & Date: _____

Field Analyst Sig & Date: [Signature] 8-14-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Comments:

COFFEEN POWER PLANT, ASH POND NO. 1

Field Analysis Log

**** Field Meter ID for Temp, pH & Conductivity : _____				**** Field Meter ID for (_____) : _____			
SW846	Std Methods	Lot #		Lot #		Lot #	
Field Temp SOP 1156	2550 B	pH 4.0 Buffer	_____	Conductivity Std.	_____	Std.	_____
pH in the Field SOP 1152	9040B	pH 7.0 Buffer	_____	Conductivity Std.	_____	Std.	_____
Field Cond. SOP 1155	9050A	pH 10.0 Buffer	_____	Conductivity Std.	_____	Std.	_____
Other: _____		pH LCS/LCSD <u>7</u>	_____	Conductivity LCS/LCSD	_____	LCS/LCSD	_____
pH Calibration				Conductivity Calibration			
Date: <u>8-14-23</u>	Reading			Reading	units		
Time: <u>10:03</u>	<u>4.01</u>			<u>1419</u>	μ S		
	<u>7.03</u>				μ S		
	<u>10.01</u>				mS		
Field Analyst Sig & Date: <u>Bruce Miller 8-14-23</u>				Field Analyst Sig & Date: <u>Bruce Miller 8-14-23</u>			
Reviewed By & Date: _____				Reviewed By & Date: _____			
Reviewed By & Date: _____				Reviewed By & Date: _____			

Comments:

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other:			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units
LCS	8-15-23	0859	21.1		7.02			1419					
CCV	8-15-23	1326	22.2		7.02			1428					

**** Field Meter ID for Temp, pH & Conductivity : _____

**** Field Meter ID for (_____) : _____

SW846	Std Methods	Lot #											
Field Temp SOP 1156	2550 B		pH 4.0 Buffer	_____	Conductivity Std.	_____	_____	Std.	_____	_____	_____	_____	_____
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	_____	Conductivity Std.	_____	_____	Std.	_____	_____	_____	_____	_____
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	_____	Conductivity Std.	_____	_____	Std.	_____	_____	_____	_____	_____
Other: _____			pH LCS/LCSD _7_	_____	Conductivity LCS/LCSD	_____	_____	LCS/LCSD	_____	_____	_____	_____	_____

pH Calibration
Date: 8-15-23
Time: 0842

Reading	4.00
	7.01
	9.99

Conductivity Calibration

_____	µS	0-199.9	_____	units	_____
_____	µS	0-1999	1413	µS	_____
_____	mS	0-19.99	_____	mS	_____

Calibration

Std	Units	_____	Reading	_____
Std	Units	_____	_____	_____
Std	Units	_____	_____	_____

Field Analyst Sig & Date: [Signature] 8-15-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Field Analyst Sig & Date: [Signature] 8-15-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	Program/ Sample Type	Weather				Well Condition				
			Temp (°F)	Precipitation	Wind Direction	Sky	Well Pad	Casing	Protective Cover	Reference Mark/ ID	Well Locked
001	G101	Groundwater Sample	62.0	None	N	Clear	Good	Good	Good	Yes	Yes
002	G102	Groundwater Sample	63.0	None	N	Clear	Good	Good	Good	Yes	Yes
003	G103	Groundwater Sample	65.0	None	N	Clear	Good	Good	Good	Yes	Yes
004	G105	Groundwater Sample	65.0	None	N	Clear	Good	Good	Good	Yes	Yes
005	G106	Groundwater Sample	65.0	None	N	Clear	Good	Good	Good	Yes	Yes
006	G107	Groundwater Sample	64.0	None	N	Clear	Good	Good	Good	Yes	Yes
007	G108	Groundwater Sample	64.0	None	N	Clear	Good	Good	Good	Yes	Yes
008	G109	Groundwater Sample	63.0	None	N	Clear	Good	Good	Good	Yes	Yes
009	G110	Groundwater Sample	62.0	None	N	Clear	Good	Good	Good	Yes	Yes
010	G111	Groundwater Sample	61.0	None	N	Clear	Good	Good	Good	Yes	Yes
011	G119	Groundwater Sample	52.0	None	N	Clear	Good	Good	Good	Yes	Yes
012	G120	Groundwater Sample	50.0	None	N	Clear	Good	Good	Good	Yes	Yes
013	G121	Groundwater Sample	48.0	None	N	Clear	Good	Good	Good	Yes	Yes
014	G122	Groundwater Sample	46.0	None	N	Clear	Good	Good	Good	Yes	Yes
015	G123	Groundwater Sample	44.0	None	N	Clear	Good	Good	Good	Yes	Yes
016	G124	Groundwater Sample	46.0	None	N	Clear	Good	Good	Good	Yes	Yes
017	G125	Groundwater Sample	44.0	None	N	Clear	Good	Good	Good	Yes	Yes
018	G126	Groundwater Sample	59.0	None	N	Clear	Good	Good	Good	Yes	Yes
019	G151	Groundwater Sample	60.0	None	N	Clear	Good	Good	Good	Yes	Yes
020	G152	Groundwater Sample	46.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
021	G153	Groundwater Sample	66.0	None	N	Clear	Good	Good	Good	Yes	Yes
022	G154	Groundwater Sample	64.0	None	N	Clear	Good	Good	Good	Yes	Yes
023	G155	Groundwater Sample	63.0	None	N	Clear	Good	Good	Good	Yes	Yes
024	G200	Groundwater Sample	48.0	None	NW	Clear	Good	Good	Good	Yes	Yes
025	G206	Groundwater Sample	67.0	None	NE	Clear	Good	Good	Good	Yes	Yes
026	G206D	Groundwater Sample	58.0	None	E	Cloudy	Good	Good	Good	Yes	Yes
027	G207	Groundwater Sample	43.0	None	NW	Clear	Good	Good	Good	Yes	Yes
028	G208	Groundwater Sample	58.0	None	E	Cloudy	Good	Good	Good	Yes	Yes
029	G209	Groundwater Sample	68.0	None	N	Partly cloudy	Good	Good	Good	Yes	Yes
030	G210	Groundwater Sample	67.0	None	N	Partly cloudy	Good	Good	Good	Yes	Yes
031	G211	Groundwater Sample	67.0	None	N	Clear	Good	Good	Good	Yes	Yes
032	G212	Groundwater Sample	66.0	None	N	Clear	Good	Good	Good	Yes	Yes
033	G213	Groundwater Sample	65.0	None	N	Clear	Good	Good	Good	Yes	Yes
034	G214	Groundwater Sample	64.0	None	N	Clear	Good	Good	Good	Yes	Yes
035	G215	Groundwater Sample	63.0	None	N	Clear	Good	Good	Good	Yes	Yes

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Summary

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

WO Sample	Well ID	Program/ Sample Type	Weather				Well Condition				
			Temp (°F)	Precipitation	Wind Direction	Sky	Well Pad	Casing	Protective Cover	Reference Mark/ ID	Well Locked
036	G216	Groundwater Sample	61.0	None	N	Clear	Good	Good	Good	Yes	Yes
037	G217	Groundwater Sample	60.0	None	N	Clear	Good	Good	Good	Yes	Yes
038	G218	Groundwater Sample	56.0	None	N	Clear	Good	Good	Good	Yes	Yes
039	G270	Groundwater Sample	59.0	None	N	Cloudy	Good	Good	Good	Yes	Yes
040	G271	Groundwater Sample	59.0	None	SE	Cloudy	Good	Good	Good	Yes	Yes
041	G272	Groundwater Sample	59.0	None	SE	Cloudy	Good	Good	Good	Yes	Yes
042	G273	Groundwater Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
043	G274	Groundwater Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
044	G275	Groundwater Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
045	G275D	Groundwater Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
046	G276	Groundwater Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
047	G277	Groundwater Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
048	G278	Groundwater Sample	47.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
049	G279	Groundwater Sample	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
050	G280	Groundwater Sample	48.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
051	G281	Groundwater Sample	47.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
052	G283	Groundwater Sample	48.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
053	G284	Groundwater Sample	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
054	G285	Groundwater Sample	49.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
055	G286	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
056	G288	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
057	G301	Groundwater Sample	49.0	Light	E	Cloudy	Good	Good	Good	Yes	Yes
058	G302	Groundwater Sample	50.0	Light	E	Cloudy	Good	Good	Good	Yes	Yes
059	G303	Groundwater Sample	42.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
060	G305	Groundwater Sample	64.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
061	G306	Groundwater Sample	65.0	None	S	Clear	Good	Good	Good	Yes	Yes
062	G307	Groundwater Sample	41.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
063	G307D	Groundwater Sample	65.0	None	S	Clear	Good	Good	Good	Yes	Yes
064	G308	Groundwater Sample	64.0	None	S	Cloudy	Good	Good	Good	Yes	Yes
065	G309	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
066	G310	Groundwater Sample	49.0	Light	E	Cloudy	Good	Good	Good	Yes	Yes
067	G312	Groundwater Sample	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
068	G313	Groundwater Sample	50.0	None	E	Cloudy	Good	Good	Good	Yes	Yes
069	G314	Groundwater Sample	50.0	Light	E	Cloudy	Good	Good	Good	Yes	Yes
070	G314D	Groundwater Sample	50.0	None	E	Cloudy	Good	Good	Good	Yes	Yes

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Summary

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

WO Sample	Well ID	Program/ Sample Type	Weather				Well Condition				
			Temp (°F)	Precipitation	Wind Direction	Sky	Well Pad	Casing	Protective Cover	Reference Mark/ ID	Well Locked
071	G315	Groundwater Sample	41.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
072	G316	Groundwater Sample	52.0	Light	E	Cloudy	Good	Good	Good	Yes	Yes
073	G317	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
074	G401	Groundwater Sample	43.0	None	SE	Cloudy	Good	Good	Good	Yes	Yes
075	G402	Groundwater Sample	43.0	None	SE	Cloudy	Good	Good	Good	Yes	Yes
076	G403	Groundwater Sample	49.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
077	G404	Groundwater Sample	44.0	None	SE	Cloudy	Good	Good	Good	Yes	Yes
078	G405	Groundwater Sample	44.0	None	SE	Cloudy	Good	Good	Good	Yes	Yes
079	G406	Groundwater Sample	51.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
080	G407	Groundwater Sample	50.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
081	G410	Groundwater Sample	51.0	Light	W	Cloudy	Good	Good	Good	Yes	Yes
082	G411	Groundwater Sample	52.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
083	G1001	Groundwater Sample	57.0	None	NW	Clear	Good	Good	Good	Yes	Yes
084	G1003	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
085	L202	Leachate Sample	65.0	None	S	Partly cloudy	Good	Good	Good	Yes	No
086	MW03D	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
087	MW12D	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
088	MW20S	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
089	NE Riser	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
090	R104	Groundwater Sample	65.0	None	N	Clear	Good	Good	Good	Yes	Yes
091	R201	Groundwater Sample	54.0	None	NW	Clear	Good	Good	Good	Yes	Yes
092	R205	Groundwater Sample	53.0	None	W	Cloudy	Good	Good	Good	Yes	Yes
093	SG-02	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
094	SG-03	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
095	SG-04	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
096	T127	Groundwater Sample	56.0	None	N	Clear	Good	Good	Good	Yes	Yes
097	T128	Groundwater Sample	54.0	None	N	Clear	Good	Good	Good	Yes	Yes
098	X201	Groundwater Sample	53.0	None	W	Cloudy	Other (see note)	Other (see note)	Other (see note)	No	No
099	XPW01	Groundwater Sample	65.0	None	S	Cloudy	Good	Good	Good	Yes	No
100	XPW02	Groundwater Sample	65.0	None	S	Cloudy	Good	Good	Good	Yes	No
101	XSG-01	DTW Only	58.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
102	Field Blank	QA/QC Sample	43.0	None	SE	Cloudy					
103	G102 Duplicate	QA/QC Sample	63.0	None	N	Clear	Good	Good	Good	Yes	Yes
104	G200 Duplicate	QA/QC Sample	48.0	None	NW	Clear	Good	Good	Good	Yes	Yes
105	G273 Duplicate	QA/QC Sample	58.0	None	S	Cloudy	Good	Good	Good	Yes	Yes

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Summary

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

WO Sample	Well ID	Program/ Sample Type	Weather				Well Condition				
			Temp (°F)	Precipitation	Wind Direction	Sky	Well Pad	Casing	Protective Cover	Reference Mark/ ID	Well Locked
106	G301 Duplicate	QA/QC Sample	49.0	Light	E	Cloudy	Good	Good	Good	Yes	Yes
107	R201 Duplicate	QA/QC Sample	54.0	None	NW	Clear	Good	Good	Good	Yes	Yes

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Summary

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

WO Sample	Well ID	GW Level Measurement				Purge Activities							
		Sampler Initials	Date/Time	DTW (ft)	DTB (ft)	Sampler Initials	Purge Date	Purge Start Time	Purge End Time	Purging Device	Well Diameter (in)	Actual Volume Purged (L)	Purge Rate (mL/min)
001	G101	JC	11/14/23 15:43	13.95		JC	11/14/2023	15:48	16:11	Bladder Pump	2"	5.0	217.4
002	G102	JC	11/14/23 15:17	12.84		JC	11/14/2023	15:21	15:37	Bladder Pump	2"	3.0	187.5
003	G103	JC	11/14/23 14:51	16.00		JC	11/14/2023	14:52	15:13	Bladder Pump	2"	4.0	190.5
004	G105	JC	11/14/23 13:57	13.46		JC	11/14/2023	13:59	14:22	Bladder Pump	2"	5.0	217.4
005	G106	JC	11/14/23 13:37	14.21		JC	11/14/2023	13:40	13:54	Bladder Pump	2"	3.0	214.3
006	G107	JC	11/14/23 13:19	14.40		JC	11/14/2023	13:21	13:33	Bladder Pump	2"	2.5	208.3
007	G108	JC	11/14/23 13:04	14.96		JC	11/14/2023	13:06	13:15	Bladder Pump	2"	1.0	111.1
008	G109	JC	11/14/23 12:48	15.09		JC	11/14/2023	12:49	12:59	Bladder Pump	2"	3.0	300.0
009	G110	JC	11/14/23 12:04	15.43		JC	11/14/2023	12:21	12:41	Bladder Pump	2"	7.0	350.0
010	G111	JC	11/14/23 11:51	16.09		JC	11/14/2023	11:51	11:59	Bladder Pump	2"	3.0	375.0
011	G119	JC	11/15/23 9:41	16.25		JC	11/15/2023	09:44	09:52	Bladder Pump	2"	2.5	312.5
012	G120	JC	11/15/23 9:26	17.08		JC	11/15/2023	09:28	09:37	Bladder Pump	2"	2.0	222.2
013	G121	JC	11/15/23 9:09	18.96		JC	11/15/2023	09:13	09:23	Bladder Pump	2"	2.0	200.0
014	G122	JC	11/15/23 8:51	20.40		JC	11/15/2023	08:54	09:06	Bladder Pump	2"	2.0	166.7
015	G123	JC	11/15/23 8:32	19.94		JC	11/15/2023	08:34	08:47	Bladder Pump	2"	3.0	230.8
016	G124	JC	11/13/23 9:46										
017	G125	JC	11/13/23 9:49										
018	G126	JC	11/15/23 10:59	11.91		JC	11/15/2023	11:01	11:11	Bladder Pump	2"	2.0	200.0
019	G151	JC	11/15/23 11:13	12.97		JC	11/15/2023	11:17	11:40	Bladder Pump	2"	4.0	173.9
020	G152	JC	11/20/23 8:06	13.03		JC	11/20/2023	08:11	08:30	Submersible Pump	2"	5.0	263.2
021	G153	JC	11/15/23 13:17	14.90		JC	11/15/2023	13:27	13:38	Bladder Pump	2"	2.5	227.3
022	G154	JC	11/15/23 12:21	15.76		JC	11/15/2023	12:29	12:55	Bladder Pump	2"	5.0	192.3
023	G155	JC	11/15/23 11:48	13.92		JC	11/15/2023	11:50	12:16	Bladder Pump	2"	7.0	269.2
024	G200	JC	11/14/23 9:17	11.88		JC	11/14/2023	09:23	10:01	Submersible Pump	2"	14.0	368.4
025	G206	JC	11/15/23 14:17	16.16		JC	11/15/2023	14:21	14:31	Bladder Pump	2"	2.0	200.0
026	G206D	JC	11/17/23 8:26	30.40		JC	11/17/2023	08:33	08:42	Bladder Pump	2"	2.0	222.2
027	G207	JC	11/14/23 8:36	16.67		JC	11/14/2023	08:41	08:49	Submersible Pump	2"	2.0	250.0
028	G208	JC	11/17/23 7:57	16.66		JC	11/17/2023	08:13	08:21	Bladder Pump	2"	2.0	250.0
029	G209	JC	11/16/23 14:25	16.24		JC	11/16/2023	14:29	14:39	Bladder Pump	2"	3.0	300.0
030	G210	JC	11/16/23 14:05	15.82		JC	11/16/2023	14:06	14:21	Bladder Pump	2"	4.5	300.0
031	G211	JC	11/16/23 13:16	15.61		JC	11/16/2023	13:28	13:53	Bladder Pump	2"	8.0	320.0
032	G212	JC	11/16/23 12:51	16.92		JC	11/16/2023	13:02	13:12	Bladder Pump	2"	2.0	200.0
033	G213	JC	11/16/23 12:21	17.41		JC	11/16/2023	12:26	12:48	Bladder Pump	2"	6.5	295.5
034	G214	JC	11/16/23 11:56	19.35		JC	11/16/2023	12:07	12:18	Bladder Pump	2"	2.0	181.8
035	G215	JC	11/16/23 11:26	19.03		JC	11/16/2023	11:34	11:52	Bladder Pump	2"	2.0	111.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Summary

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

WO Sample	Well ID	GW Level Measurement				Purge Activities							
		Sampler Initials	Date/Time	DTW (ft)	DTB (ft)	Sampler Initials	Purge Date	Purge Start Time	Purge End Time	Purging Device	Well Diameter (in)	Actual Volume Purged (L)	Purge Rate (mL/min)
036	G216	JC	11/16/23 10:47	18.21		JC	11/16/2023	11:05	11:20	Bladder Pump	2"	3.5	233.3
037	G217	JC	11/16/23 10:16	19.68		JC	11/16/2023	10:26	10:43	Bladder Pump	2"	4.0	235.3
038	G218	JC	11/16/23 9:42	18.67		JC	11/16/2023	09:45	10:13	Bladder Pump	2"	9.0	321.4
039	G270	JC	11/17/23 8:55	10.90		JC	11/17/2023	09:00	09:13	Bladder Pump	2"	2.0	153.8
040	G271	JC	11/17/23 9:18	13.00		JC	11/17/2023	09:27	09:42	Bladder Pump	2"	5.0	333.3
041	G272	JC	11/17/23 9:47	12.01		JC	11/17/2023	09:59	10:19	Bladder Pump	2"	3.5	175.0
042	G273	JC	11/17/23 10:23	12.71		JC	11/17/2023	10:29	10:37	Bladder Pump	2"	2.0	250.0
043	G274	JC	11/17/23 10:41	15.77		JC	11/17/2023	10:51	11:00	Bladder Pump	2"	2.0	222.2
044	G275	JC	11/13/23 9:28										
045	G275D	JC	11/13/23 9:26										
046	G276	JC	11/17/23 11:10	28.59		JC	11/17/2023	11:20	11:35	Bladder Pump	2"	4.0	266.7
047	G277	JC	11/13/23 9:33										
048	G278	JC	11/20/23 9:17	24.23		JC	11/20/2023	09:20	09:31	Submersible Pump	2"	4.0	363.6
049	G279	JC	11/17/23 11:54	23.39		JC	11/17/2023	11:55	12:03	Bladder Pump	2"	2.0	250.0
050	G280	JC	11/20/23 9:39	8.91		JC	11/20/2023	09:42	09:50	Bladder Pump	2"	1.5	187.5
051	G281	JC	11/20/23 8:43	8.59		JC	11/20/2023	08:46	08:56	Bladder Pump	2"	2.0	200.0
052	G283	JC	11/20/23 9:54	7.22		JC	11/20/2023	10:09	10:34	Bladder Pump	2"	4.0	160.0
053	G284	JC	11/13/23 9:03										
054	G285	JC	11/20/23 10:38	9.38		JC	11/20/2023	10:52	11:02	Bladder Pump	2"	1.5	150.0
055	G286	JC	11/13/23 12:46										
056	G288	JC	11/13/23 12:49	9.84									
057	G301	TAC	11/20/23 10:14	8.25		DC	11/20/2023	10:15	10:42	Bladder Pump	2"	7.5	277.8
058	G302	TAC	11/20/23 12:01	12.73		DC	11/20/2023	12:01	12:22	Bladder Pump	2"	4.5	214.3
059	G303	DC	11/21/23 11:03	8.90		DC	11/21/2023	11:03	11:28	Bladder Pump	2"	6.0	240.0
060	G305	TAC	11/17/23 10:32	9.25		DC	11/17/2023	10:33	10:55	Bladder Pump	2"	6.0	272.7
061	G306	TAC	11/17/23 12:06	9.84		DC	11/17/2023	12:07	12:26	Bladder Pump	2"	5.5	289.5
062	G307	TAC	11/21/23 8:39	1.33		DC	11/21/2023	08:41	09:37	Peristaltic Pump	2"	7.0	125.0
063	G307D	TAC	11/17/23 11:14	11.72		DC	11/17/2023	11:16	11:38	Bladder Pump	2"	3.0	136.4
064	G308	TAC	11/17/23 9:52	5.82		DC	11/17/2023	09:53	10:11	Bladder Pump	2"	4.5	250.0
065	G309	JC	11/13/23 10:51	8.32									
066	G310	TAC	11/20/23 9:26	10.63		DC	11/20/2023	09:26	09:49	Bladder Pump	2"	5.0	217.4
067	G312	JC	11/13/23 11:08										
068	G313	TAC	11/20/23 13:43	3.13		DC	11/20/2023	13:44	14:04	Bladder Pump	2"	5.5	275.0
069	G314	TAC	11/20/23 14:53	5.88		DC	11/20/2023	15:06	15:24	Bladder Pump	2"	3.5	194.4
070	G314D	DC	11/20/23 14:26	8.05		DC	11/20/2023	14:26	14:49	Bladder Pump	2"	6.0	260.9

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	GW Level Measurement				Purge Activities							
		Sampler Initials	Date/Time	DTW (ft)	DTB (ft)	Sampler Initials	Purge Date	Purge Start Time	Purge End Time	Purging Device	Well Diameter (in)	Actual Volume Purged (L)	Purge Rate (mL/min)
071	G315	TAC	11/21/23 10:13	2.93		DC	11/21/2023	10:15	10:37	Bladder Pump	2"	4.5	204.5
072	G316	TAC	11/20/23 13:00	12.48		DC	11/20/2023	13:00	13:21	Bladder Pump	2"	4.5	214.3
073	G317	JC	11/13/23 12:55										
074	G401	JC	11/21/23 8:57	13.63		JC	11/21/2023	09:04	09:24	Bladder Pump	2"	2.0	100.0
075	G402	JC	11/21/23 8:18	11.71		JC	11/21/2023	08:25	08:37	Bladder Pump	2"	2.0	166.7
076	G403	JC	11/20/23 11:30	8.27		JC	11/20/2023	11:30	11:41	Bladder Pump	2"	3.5	318.2
077	G404	JC	11/21/23 9:51	6.48		JC	11/21/2023	09:54	10:07	Bladder Pump	2"	2.0	153.8
078	G405	JC	11/21/23 10:11	7.73		JC	11/21/2023	10:23	10:32	Bladder Pump	2"	1.5	166.7
079	G406	JC	11/20/23 12:56	13.83		JC	11/20/2023	13:11	13:20	Bladder Pump	2"	1.0	111.1
080	G407	JC	11/20/23 11:45	8.31		JC	11/20/2023	12:04	12:18	Bladder Pump	2"	1.5	107.1
081	G410	JC	11/20/23 12:22	10.68		JC	11/20/2023	12:37	12:50	Bladder Pump	2"	2.0	153.8
082	G411	JC	11/20/23 13:24	11.20		JC	11/20/2023	13:40	13:50	Bladder Pump	2"	1.5	150.0
083	G1001	JC	11/14/23 11:03	6.49		JC	11/14/2023	11:06	11:36	Submersible Pump	2"	10.0	333.3
084	G1003	JC	11/13/23 10:20										
085	L202	JC	11/13/23 13:16	22.00		TAC	11/16/2023						
086	MW03D	JC	11/13/23 9:57	32.01									
087	MW12D	JC	11/13/23 10:41	15.64									
088	MW20S	JC	11/13/23 9:54	11.96									
089	NE Riser	JC											
090	R104	JC	11/14/23 14:27	12.91		JC	11/14/2023	14:32	14:40	Bladder Pump	2"	3.5	437.5
091	R201	JC	11/14/23 10:15	11.73		JC	11/14/2023	10:20	10:34	Submersible Pump	2"	5.0	357.1
092	R205	JC	11/20/23 14:12	11.48		JC	11/20/2023	14:13	14:39	Bladder Pump	2"	3.0	115.4
093	SG-02	JC	11/13/23 14:03	7.36									
094	SG-03	JC	11/13/23 13:53	9.71									
095	SG-04	JC	11/13/23 14:21	6.32									
096	T127	JC	11/15/23 10:17	15.95		JC	11/15/2023	10:24	10:52	Submersible Pump	2"	8.0	285.7
097	T128	JC	11/15/23 9:56	15.50		JC	11/15/2023	10:00	10:11	Bladder Pump	2"	3.0	272.7
098	X201	JC	11/20/23 13:59	34.00		JC	11/20/2023	14:08	14:08	Bailer			
099	XPW01	TAC	11/17/23 9:18	6.28		DC	11/17/2023	09:19	09:39	Bladder Pump	2"	6.5	325.0
100	XPW02	TAC	11/17/23 8:38	11.13		DC	11/17/2023	08:44	09:02	Bladder Pump	2"	4.5	250.0
101	XSG-01	JC	11/13/23 13:16	10.38									
102	Field Blank												
103	G102 Duplicate	JC	11/14/23 15:17	12.84		JC	11/14/2023	15:21	15:37	Bladder Pump	2"	3.0	187.5
104	G200 Duplicate	JC	11/14/23 9:17	11.88		JC	11/14/2023	09:23	10:01	Submersible Pump	2"	14.0	368.4
105	G273 Duplicate	JC	11/17/23 10:23	12.71		JC	11/17/2023	10:29	10:37	Bladder Pump	2"	2.0	250.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Summary

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

WO Sample	Well ID	GW Level Measurement				Purge Activities							
		Sampler Initials	Date/Time	DTW (ft)	DTB (ft)	Sampler Initials	Purge Date	Purge Start Time	Purge End Time	Purging Device	Well Diameter (in)	Actual Volume Purged (L)	Purge Rate (mL/min)
106	G301 Duplicate	TAC	11/20/23 10:14	8.25		DC	11/20/2023	10:15	10:42	Bladder Pump	2"	7.5	277.8
107	R201 Duplicate	JC	11/14/23 10:15	11.73		JC	11/14/2023	10:20	10:34	Submersible Pump	2"	5.0	357.1

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	Sampling Activities and Observations									
		Sampler Initials	Date	Time	Sampling Method	Field Filtered	Appearance	Odor	Color	Post-Sample DTW (ft)	Drawdown (ft)
001	G101	JC	11/14/23	16:11	Low Flow	Yes	Clear	None	none	14.10	0.15
002	G102	JC	11/14/23	15:37	Low Flow	Yes	Clear	None	none	13.32	0.48
003	G103	JC	11/14/23	15:13	Low Flow	Yes	Clear	None	none	18.06	2.06
004	G105	JC	11/14/23	14:22	Low Flow	Yes	Clear	None	none	17.33	3.87
005	G106	JC	11/14/23	13:54	Low Flow	Yes	Clear	None	none	17.68	3.47
006	G107	JC	11/14/23	13:33	Low Flow	Yes	Clear	None	none	16.86	2.46
007	G108	JC	11/14/23	13:15	Low Flow	Yes	Clear	None	none	16.85	1.89
008	G109	JC	11/14/23	12:59	Low Flow	Yes	Clear	None	none	15.96	0.87
009	G110	JC	11/14/23	12:41	Low Flow	Yes	Clear	None	none	16.04	0.61
010	G111	JC	11/14/23	11:59	Low Flow	Yes	Clear	None	none	17.00	0.91
011	G119	JC	11/15/23	09:52	Low Flow	Yes	Clear	None	none	18.30	2.05
012	G120	JC	11/15/23	09:37	Low Flow	Yes	Clear	None	none	18.79	1.71
013	G121	JC	11/15/23	09:23	Low Flow	Yes	Clear	None	none	20.42	1.46
014	G122	JC	11/15/23	09:06	Low Flow	Yes	Clear	None	none	21.20	0.8
015	G123	JC	11/15/23	08:47	Low Flow	Yes	Clear	None	none	20.54	0.6
016	G124	JC	11/15/23								
017	G125	JC	11/15/23								
018	G126	JC	11/15/23	11:11	Low Flow	Yes	Clear	None	none	12.20	0.29
019	G151	JC	11/15/23	11:40	Low Flow	Yes	Clear	None	none	13.58	0.61
020	G152	JC	11/20/23	08:30	Low Flow	Yes	Slightly cloudy	None	none	21.04	8.01
021	G153	JC	11/15/23	13:38	Low Flow	Yes	Clear	None	none	16.68	1.78
022	G154	JC	11/15/23	12:55	Low Flow	Yes	Clear	None	none	16.61	0.85
023	G155	JC	11/15/23	12:16	Low Flow	Yes	Cloudy	None	It brown	18.91	4.99
024	G200	JC	11/14/23	10:01	Low Flow	Yes	Slightly cloudy	None	none	13.01	1.13
025	G206	JC	11/15/23	14:31	Low Flow	Yes	Clear	None	none	17.20	1.04
026	G206D	JC	11/17/23	08:42	Low Flow	Yes	Clear	Slight	none	31.45	1.05
027	G207	JC	11/14/23	08:49	Low Flow	Yes	Slightly cloudy	None	none	19.80	3.13
028	G208	JC	11/17/23	08:21	Low Flow	Yes	Clear	None	none	17.80	1.14
029	G209	JC	11/16/23	14:39	Low Flow	Yes	Clear	None	none	18.36	2.12
030	G210	JC	11/16/23	14:21	Low Flow	Yes	Clear	None	none	16.85	1.03
031	G211	JC	11/16/23	13:53	Low Flow	Yes	Clear	None	none	17.91	2.3
032	G212	JC	11/16/23	13:12	Low Flow	Yes	Clear	None	none	17.85	0.93
033	G213	JC	11/16/23	12:48	Low Flow	Yes	Clear	None	none	18.61	1.2
034	G214	JC	11/16/23	12:18	Low Flow	Yes	Clear	None	none	20.48	1.13
035	G215	JC	11/16/23	11:52	Low Flow	Yes	Clear	None	none	19.08	0.05

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	Sampling Activities and Observations									
		Sampler Initials	Date	Time	Sampling Method	Field Filtered	Appearance	Odor	Color	Post-Sample DTW (ft)	Drawdown (ft)
036	G216	JC	11/16/23	11:20	Low Flow	Yes	Clear	None	none	19.32	1.11
037	G217	JC	11/16/23	10:43	Low Flow	Yes	Clear	None	none	20.10	0.42
038	G218	JC	11/16/23	10:13	Low Flow	Yes	Clear	None	none	19.81	1.14
039	G270	JC	11/17/23	09:13	Low Flow	Yes	Clear	None	none	11.31	0.41
040	G271	JC	11/17/23	09:42	Low Flow	Yes	Clear	None	none	14.20	1.2
041	G272	JC	11/17/23	10:19	Low Flow	Yes	Clear	None	none	12.46	0.45
042	G273	JC	11/17/23	10:37	Low Flow	Yes	Clear	None	none	13.09	0.38
043	G274	JC	11/17/23	11:00	Low Flow	Yes	Clear	None	none	16.19	0.42
044	G275	JC	11/17/23								
045	G275D	JC	11/17/23								
046	G276	JC	11/17/23	11:34	Low Flow	Yes	Slightly cloudy	None	none	29.80	1.21
047	G277	JC	11/17/23								
048	G278	JC	11/20/23	09:31	Low Flow	Yes	Slightly cloudy	None	none	26.09	1.86
049	G279	JC	11/17/23	12:03	Low Flow	Yes	Clear	None	none	24.02	0.63
050	G280	JC	11/20/23	09:50	Low Flow	Yes	Clear	None	none	9.11	0.2
051	G281	JC	11/20/23	08:56	Low Flow	Yes	Clear	None	none	8.94	0.35
052	G283	JC	11/20/23	10:34	Low Flow	No	Clear	None	none	8.03	0.81
053	G284	JC	11/17/23								
054	G285	JC	11/20/23	11:02	Low Flow	No	Clear	None	none	10.98	1.6
055	G286										
056	G288										
057	G301	TAC	11/20/23	10:42	Low Flow	No	Clear	Slight	None	9.56	1.31
058	G302	TAC	11/20/23	12:22	Low Flow	No	Clear	Slight	None	13.55	0.82
059	G303	TAC	11/21/23	11:28	Low Flow	No	Clear	None	None	11.21	2.31
060	G305	TAC	11/17/23	10:55	Low Flow	No	Clear	None	None	9.46	0.21
061	G306	TAC	11/17/23	12:26	Low Flow	No	Cloudy	None	Lite Brown	12.64	2.8
062	G307	TAC	11/21/23	09:37	Low Flow	No	Clear	None	None	1.46	0.13
063	G307D	TAC	11/17/23	11:38	Low Flow	No	Clear	None	None	16.55	4.83
064	G308	TAC	11/17/23	10:11	Low Flow	No	Clear	None	None	6.44	0.62
065	G309										
066	G310	TAC	11/20/23	09:49	Low Flow	No	Clear	None	None	10.91	0.28
067	G312	JC	11/17/23								
068	G313	TAC	11/20/23	14:04	Low Flow	No	Clear	Slight	None	3.83	0.7
069	G314	TAC	11/20/23	15:24	Low Flow	No	Clear	None	None	10.40	4.52
070	G314D	TAC	11/20/23	14:49	Low Flow	No	Clear	Slight	None	17.76	9.71

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

WO Sample	Well ID	Sampling Activities and Observations									
		Sampler Initials	Date	Time	Sampling Method	Field Filtered	Appearance	Odor	Color	Post-Sample DTW (ft)	Drawdown (ft)
071	G315	TAC	11/20/23	10:37	Low Flow	No	Clear	None	None	3.50	0.57
072	G316	TAC	11/20/23	13:21	Low Flow	No	Clear	None	None	13.10	0.62
073	G317										
074	G401	JC	11/21/23	09:24	Low Flow	Yes	Slightly cloudy	None	It brown	14.07	0.44
075	G402	JC	11/21/23	08:37	Low Flow	Yes	Slightly cloudy	None	none	11.72	0.01
076	G403	JC	11/20/23	11:41	Low Flow	Yes	Clear	Slight	none	11.40	3.13
077	G404	JC	11/21/23	10:07	Low Flow	Yes	Clear	None	none	6.78	0.3
078	G405	JC	11/21/23	10:32	Low Flow	Yes	Clear	None	none	8.02	0.29
079	G406	JC	11/20/23	13:20	Low Flow	Yes	Clear	None	none	14.46	0.63
080	G407	JC	11/20/23	12:18	Low Flow	Yes	Clear	None	none	10.04	1.73
081	G410	JC	11/20/23	12:50	Low Flow	Yes	Clear	None	none	10.74	0.06
082	G411	JC	11/20/23	13:50	Low Flow	Yes	Clear	None	none	11.49	0.29
083	G1001	JC	11/14/23	11:36	Low Flow	No	Slightly cloudy	None	none	10.06	3.57
084	G1003										
085	L202	TAC	11/16/23	11:38	No purge						
086	MW03D										
087	MW12D										
088	MW20S										
089	NE Riser										
090	R104	JC	11/14/23	14:40	Low Flow	Yes	Clear	None	none	18.10	5.19
091	R201	JC	11/14/23	10:37	Low Flow	Yes	Clear	Slight	none	14.98	3.25
092	R205	JC	11/20/23	14:39	Low Flow	Yes	Slightly cloudy	None	none	11.81	0.33
093	SG-02										
094	SG-03										
095	SG-04										
096	T127	JC	11/15/23	10:52	Low Flow	Yes	Slightly cloudy	None	none	16.58	0.63
097	T128	JC	11/15/23	10:11	Low Flow	Yes	Clear	None	none	15.80	0.3
098	X201	JC	11/20/23	14:08	No purge	No	Clear	None	none	34.00	0
099	XPW01	TAC	11/17/23	09:39	Low Flow	No	Clear	None	None	6.30	0.02
100	XPW02	TAC	11/17/23	09:02	Low Flow	No	Clear	None	None	11.13	0
101	XSG-01										
102	Field Blank	JC	11/21/23	10:36							
103	G102 Duplicate	JC	11/14/23	15:37	Low Flow	Yes	Clear	None	none	13.32	0.48
104	G200 Duplicate	JC	11/14/23	10:01	Low Flow	Yes	Slightly cloudy	None	none	13.01	1.13
105	G273 Duplicate	JC	11/17/23	10:37	Low Flow	Yes	Clear	None	none	13.09	0.38

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Summary

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

WO Sample	Well ID	Sampling Activities and Observations									
		Sampler Initials	Date	Time	Sampling Method	Field Filtered	Appearance	Odor	Color	Post-Sample DTW (ft)	Drawdown (ft)
106	G301 Duplicate	TAC	11/20/23	10:42	Low Flow	No	Clear	Slight	None	9.56	1.31
107	R201 Duplicate	JC	11/14/23	10:37	Low Flow	Yes	Clear	Slight	none	14.98	3.25

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	COMMENTS
001	G101	
002	G102	
003	G103	
004	G105	
005	G106	
006	G107	
007	G108	
008	G109	
009	G110	
010	G111	
011	G119	
012	G120	
013	G121	
014	G122	
015	G123	
016	G124	Dry- no sample
017	G125	Dry- no sample
018	G126	
019	G151	
020	G152	
021	G153	
022	G154	
023	G155	
024	G200	
025	G206	
026	G206D	
027	G207	
028	G208	
029	G209	
030	G210	
031	G211	
032	G212	
033	G213	
034	G214	
035	G215	

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	COMMENTS
036	G216	
037	G217	
038	G218	
039	G270	
040	G271	
041	G272	
042	G273	
043	G274	
044	G275	Dry- no sample
045	G275D	Dry- no sample
046	G276	
047	G277	Dry- no sample
048	G278	
049	G279	
050	G280	
051	G281	
052	G283	
053	G284	Dry- no sample
054	G285	
055	G286	Dry- No measurable water
056	G288	
057	G301	
058	G302	
059	G303	
060	G305	
061	G306	
062	G307	Had to remove pump and sample via perastaltic
063	G307D	
064	G308	
065	G309	
066	G310	
067	G312	Dry- no sample
068	G313	
069	G314	
070	G314D	

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary

Coffeen- 4Q 2023

WO Sample	Well ID	COMMENTS
071	G315	
072	G316	
073	G317	Dry- No measurable water
074	G401	
075	G402	
076	G403	
077	G404	
078	G405	
079	G406	
080	G407	
081	G410	
082	G411	
083	G1001	
084	G1003	Dry- No measurable water
085	L202	
086	MW03D	
087	MW12D	
088	MW20S	
089	NE Riser	Unable to get elevation (no transducer)
090	R104	
091	R201	
092	R205	
093	SG-02	
094	SG-03	
095	SG-04	
096	T127	
097	T128	
098	X201	lechate
099	XPW01	
100	XPW02	Put DTW on wrong line DTW taken at 8.38
101	XSG-01	
102	Field Blank	
103	G102 Duplicate	
104	G200 Duplicate	
105	G273 Duplicate	

Site Sampling Event: Coffeen 4Q 2023**LIMS Workorder:** 23110002**Technician(s):** DC, JC, TC, BG**Groundwater Sampling Summary****Coffeen- 4Q 2023**

WO Sample	Well ID	COMMENTS
106	G301 Duplicate	
107	R201 Duplicate	

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Stabilized Field Parameters Summary

Coffeen- 4Q 2023

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID
G101	11/14/2023	16:11	15.2	59.4	7.16	1,179.4	2.81	21.87	56.3	13.95	23110002-001A
G102	11/14/2023	15:37	16.4	61.5	7.30	881.0	0.78	26.48	17.9	12.84	23110002-002A
G103	11/14/2023	15:13	16.4	61.5	7.12	851.5	1.46	15.48	17.2	16.00	23110002-003A
G105	11/14/2023	14:22	16.6	61.9	7.16	803.5	0.92	8.76	-128.0	13.46	23110002-004A
G106	11/14/2023	13:54	17.3	63.1	7.02	877.9	3.58	8.61	48.4	14.21	23110002-005A
G107	11/14/2023	13:33	17.4	63.3	7.20	753.1	3.24	12.34	25.0	14.40	23110002-006A
G108	11/14/2023	13:15	17.8	64.0	7.20	751.7	2.63	4.03	-70.4	14.96	23110002-007A
G109	11/14/2023	12:59	16.7	62.1	7.03	938.7	1.28	14.68	50.8	15.09	23110002-008A
G110	11/14/2023	12:41	17.3	63.1	6.94	908.2	0.98	15.24	1.9	15.43	23110002-009A
G111	11/14/2023	11:59	17.4	63.3	7.14	817.6	1.15	8.45	9.2	16.09	23110002-010A
G119	11/15/2023	9:52	16.6	61.9	7.20	703.4	2.93	6.76	114.4	16.25	23110002-011A
G120	11/15/2023	9:37	16.6	61.9	7.02	875.6	4.11	8.07	121.9	17.08	23110002-012A
G121	11/15/2023	9:23	16.4	61.5	6.94	946.8	3.52	10.14	122.2	18.96	23110002-013A
G122	11/15/2023	9:06	15.7	60.3	6.79	1,178.9	4.50	12.43	128.8	20.40	23110002-014A
G123	11/15/2023	8:47	15.3	59.5	6.87	941.5	1.21	7.42	118.6	19.94	23110002-015A
G124	11/15/2023		Dry- no sample								23110002-016A
G125	11/15/2023		Dry- no sample								23110002-017A
G126	11/15/2023	11:11	17.3	63.1	7.12	887.2	1.38	5.81	87.2	11.91	23110002-018A
G151	11/15/2023	11:40	17.5	63.5	7.23	906.2	3.05	9.81	102.1	12.97	23110002-019A
G152	11/20/2023	8:30	16.0	60.8	6.85	845.9	2.01	50.74	88.0	13.03	23110002-020A
G153	11/15/2023	13:38	17.2	63.0	6.80	3,970.3	1.58	14.37	-80.9	14.90	23110002-021A
G154	11/15/2023	12:54	17.0	62.6	7.36	660.6	1.37	10.96	100.4	15.76	23110002-022A
G155	11/15/2023	12:16	18.1	64.6	7.23	917.0	2.80	32.49	100.5	13.92	23110002-023A
G200	11/14/2023	10:01	16.0	60.8	7.16	793.4	0.98	101.80	96.6	11.88	23110002-024A
G206	11/15/2023	14:31	17.6	63.7	7.46	801.2	1.21	5.73	-255.9	16.16	23110002-025A
G206D	11/17/2023	8:42	15.0	59.0	7.14	996.3	1.85	8.10	-53.6	30.40	23110002-026A
G207	11/14/2023	8:49	16.4	61.5	6.73	632.0	2.35	8.49	130.3	16.67	23110002-027A
G208	11/17/2023	8:21	16.2	61.2	7.04	525.6	3.28	9.42	138.6	16.66	23110002-028A
G209	11/16/2023	14:39	16.3	61.3	7.00	1,212.9	1.52	4.71	-22.7	16.24	23110002-029A
G210	11/16/2023	14:21	16.3	61.3	7.29	848.2	1.05	11.03	87.5	15.82	23110002-030A
G211	11/16/2023	13:53	17.2	63.0	7.26	786.9	0.86	18.68	43.7	15.61	23110002-031A
G212	11/16/2023	13:12	16.8	62.2	7.15	680.4	2.36	6.74	102.3	16.92	23110002-032A
G213	11/16/2023	12:48	16.5	61.7	7.09	661.7	0.84	6.19	83.7	17.41	23110002-033A
G214	11/16/2023	12:18	16.8	62.2	7.12	923.5	2.38	8.33	82.1	19.35	23110002-034A
G215	11/16/2023	11:52	17.3	63.1	6.94	1,767.7	1.53	26.69	-11.9	19.03	23110002-035A
G216	11/16/2023	11:20	16.4	61.5	6.92	2,125.6	2.95	13.72	-53.8	18.21	23110002-036A
G217	11/16/2023	10:43	16.1	61.0	6.88	1,478.6	0.75	11.29	15.5	19.68	23110002-037A
G218	11/16/2023	10:13	15.8	60.4	6.84	1,531.8	0.63	20.47	-4.9	18.67	23110002-038A
G270	11/17/2023	9:13	15.2	59.4	7.12	688.8	1.91	9.98	97.7	10.90	23110002-039A
G271	11/17/2023	9:42	16.3	61.3	7.18	919.5	2.89	7.14	113.2	13.00	23110002-040A
G272	11/17/2023	10:19	14.8	58.6	7.18	1,270.8	3.42	8.75	120.4	12.01	23110002-041A
G273	11/17/2023	10:37	16.4	61.5	7.05	1,349.7	1.60	8.19	125.3	12.71	23110002-042A
G274	11/17/2023	11:00	15.6	60.1	7.08	1,086.9	1.68	8.07	126.0	15.77	23110002-043A
G275	11/17/2023		Dry- no sample								23110002-044A
G275D	11/17/2023		Dry- no sample								23110002-045A
G276	11/17/2023	11:35	15.0	59.0	6.93	1,259.0	4.33	13.17	134.0	28.59	23110002-046A
G277	11/17/2023		Dry- no sample								23110002-047A

Site Sampling Event: Coffeen 4Q 2023

Stabilized Field Parameters Summary

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID
G278	11/20/2023	9:31	16.2	61.2	6.78	4,574.2	1.28	9.80	126.7	24.23	23110002-048A
G279	11/17/2023	12:03	16.8	62.2	6.76	5,637.0	1.41	7.29	140.7	23.39	23110002-049A
G280	11/20/2023	9:50	14.7	58.5	7.39	849.2	1.79	7.89	106.9	8.91	23110002-050A
G281	11/20/2023	8:56	16.1	61.0	6.90	1,254.0	1.54	9.45	111.8	8.59	23110002-051A
G283	11/20/2023	10:34	12.6	54.7	7.04	1,188.8	1.72	23.55	88.5	7.22	23110002-052A
G284	11/17/2023		Dry- no sample								23110002-053A
G285	11/20/2023	11:02	12.0	53.6	6.71	1,949.5	3.14	20.29	117.7	9.38	23110002-054A
G286	11/13/2023	12:46	DTW Only								N/A 23110002-055A
G288	11/13/2023	12:49	DTW Only								9.84 23110002-056A
G301	11/20/2023	10:42	15.5	59.9	6.43	1,167.1	1.01	4.98	-48.7	8.25	23110002-057A
G302	11/20/2023	12:22	15.4	59.7	6.50	1,377.3	0.84	15.08	-80.6	12.73	23110002-058A
G303	11/21/2023	11:28	14.0	57.2	6.63	1,945.3	2.52	26.96	-27.8	8.90	23110002-059A
G305	11/17/2023	10:55	15.1	59.2	6.91	1,780.7	0.73	10.90	12.0	9.25	23110002-060A
G306	11/17/2023	12:26	15.3	59.5	6.18	785.5	1.83	31.14	64.4	9.84	23110002-061A
G307	11/21/2023	9:37	13.2	55.8	6.85	1,184.2	3.41	22.01	100.7	1.33	23110002-062A
G307D	11/17/2023	11:38	15.4	59.7	6.99	1,466.9	0.79	53.44	-100.9	11.72	23110002-063A
G308	11/17/2023	10:11	16.0	60.8	6.89	1,872.4	0.81	7.41	5.1	5.82	23110002-064A
G309	11/13/2023	10:51	DTW Only								8.32 23110002-065A
G310	11/20/2023	9:49	15.7	60.3	6.83	1,388.8	1.06	2.93	85.8	10.63	23110002-066A
G312	11/17/2023		Dry- no sample								23110002-067A
G313	11/20/2023	14:04	15.9	60.6	6.67	1,730.7	0.86	6.44	6.3	3.13	23110002-068A
G314	11/20/2023	15:24	15.1	59.2	6.51	3,239.1	1.67	7.19	-33.9	5.88	23110002-069A
G314D	11/20/2023	14:49	14.4	57.9	6.73	2,661.2	0.79	15.71	-53.6	8.05	23110002-070A
G315	11/21/2023	10:37	14.0	57.2	6.54	1,376.9	1.43	4.27	100.5	2.93	23110002-071A
G316	11/20/2023	13:21	15.0	59.0	6.76	1,893.4	1.00	1.41	-117.1	12.48	23110002-072A
G317	11/13/2023	12:55	DTW Only								N/A 23110002-073A
G401	11/21/2023	9:24	12.9	55.2	5.89	2,830.7	1.13	28.02	14.7	13.63	23110002-074A
G402	11/21/2023	8:37	15.0	59.0	6.66	1,578.9	3.40	21.11	157.7	11.71	23110002-075A
G403	11/20/2023	11:41	15.1	59.2	6.90	684.6	1.22	4.18	112.4	8.27	23110002-076A
G404	11/21/2023	10:07	13.7	56.7	6.67	2,027.5	2.09	8.10	84.7	6.48	23110002-077A
G405	11/21/2023	10:32	15.3	59.5	6.95	1,837.0	3.08	5.50	75.5	7.73	23110002-078A
G406	11/20/2023	13:20	15.7	60.3	6.59	1,206.3	1.81	3.02	127.4	13.83	23110002-079A
G407	11/20/2023	12:18	14.2	57.6	6.57	2,982.8	1.56	10.49	124.2	8.31	23110002-080A
G410	11/20/2023	12:50	15.3	59.5	6.77	1,211.1	1.18	5.06	28.2	10.68	23110002-081A
G411	11/20/2023	13:50	14.6	58.3	7.28	896.2	1.53	5.72	115.5	11.20	23110002-082A
G1001	11/14/2023	11:36	16.7	62.1	6.97	1,220.2	1.59	10.35	0.3	6.49	23110002-083A
G1003	11/13/2023	10:20	DTW Only								N/A 23110002-084A
L202	11/16/2023	13:38	20.9	69.6	11.57	15,796.2	6.41	15.47	-92.7	22.00	23110002-085A
MW03D	11/13/2023	9:57	DTW Only								32.01 23110002-086A
MW12D	11/13/2023	10:41	DTW Only								15.64 23110002-087A
MW20S	11/13/2023	9:54	DTW Only								11.96 23110002-088A
NE Riser			Unable to collect DTW Data								23110002-089A
R104	11/14/2023	14:40	17.1	62.8	7.41	765.9	3.62	3.74	-21.7	12.91	23110002-090A
R201	11/14/2023	10:37	16.0	60.8	6.99	1,157.1	0.75	13.87	-96.6	11.73	23110002-091A
R205	11/20/2023	14:39	14.6	58.3	6.77	1,393.0	0.98	24.11	126.8	11.48	23110002-092A
SG-02	11/13/2023	14:03	DTW Only								7.36 23110002-093A
SG-03	11/13/2023	13:53	DTW Only								9.71 23110002-094A

Site Sampling Event: Coffeen 4Q 2023

Stabilized Field Parameters Summary

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID
SG-04	11/13/2023	14:21	DTW Only							6.32	23110002-095A
T127	11/15/2023	10:52	18.0	64.4	7.10	784.4	1.44	53.59	92.1	15.95	23110002-096A
T128	11/15/2023	10:11	16.9	62.4	6.99	725.6	1.48	3.18	96.7	15.50	23110002-097A
X201	11/20/2023	14:08	12.7	54.9	6.63	22,523.7	9.63	5.23	140.7	34.00	23110002-098A
XPW01	11/17/2023	9:39	18.4	65.1	7.14	1,314.9	1.20	24.81	-83.1	6.28	23110002-099A
XPW02	11/17/2023	9:02	19.5	67.1	7.60	790.2	1.32	3.86	-106.8	11.13	23110002-100A
XSG-01	11/13/2023	13:16	DTW Only							10.38	23110002-101A
Field Blank	11/21/2023	10:36									23110002-102A
G102 Duplicate	11/14/2023	15:37	16.4	61.5	7.30	881.0	0.78	26.48	17.9	12.84	23110002-103A
G200 Duplicate	11/14/2023	10:01	16.0	60.8	7.16	793.4	0.98	101.80	96.6	11.88	23110002-104A
G273 Duplicate	11/17/2023	10:37	16.4	61.5	7.05	1,349.7	1.60	8.19	125.3	12.71	23110002-105A
G301 Duplicate	11/20/2023	10:42	15.5	59.9	6.43	1,167.1	1.01	4.98	-48.7	8.25	23110002-106A
R201 Duplicate	11/14/2023	10:37	16.0	60.8	6.99	1,157.1	0.75	13.87	-96.6	11.73	23110002-107A

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G101	11/14/2023	16:02	13.95	15.1	59.2	7.16	894.1	3.12	35.43	58.8
G101	11/14/2023	16:05	13.95	15.1	59.2	7.16	825.0	2.89	42.94	59.4
G101	11/14/2023	16:08	13.95	15.1	59.2	7.15	1,177.0	2.85	22.09	59.2
G101	11/14/2023	16:11	13.95	15.2	59.4	7.16	1,179.4	2.81	21.87	56.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G102	11/14/2023	15:31	12.84	16.4	61.5	7.31	887.2	1.11	34.34	24.9
G102	11/14/2023	15:34	12.84	16.4	61.5	7.30	883.5	0.90	29.22	20.2
G102	11/14/2023	15:37	12.84	16.4	61.5	7.30	881.0	0.78	26.48	17.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G103	11/14/2023	15:04	16.00	16.5	61.7	7.16	842.2	1.85	20.62	12.0
G103	11/14/2023	15:07	16.00	16.4	61.5	7.14	845.9	1.61	24.46	14.0
G103	11/14/2023	15:10	16.00	16.4	61.5	7.13	849.8	1.51	14.63	16.5
G103	11/14/2023	15:13	16.00	16.4	61.5	7.12	851.5	1.46	15.48	17.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G105	11/14/2023	14:16	13.46	16.6	61.9	7.16	808.5	2.30	23.63	-107.3
G105	11/14/2023	14:19	13.46	16.6	61.9	7.17	805.8	1.22	10.65	-126.7
G105	11/14/2023	14:22	13.46	16.6	61.9	7.16	803.5	0.92	8.76	-128.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G106	11/14/2023	13:48	14.21	17.4	63.3	7.05	882.8	3.25	15.41	43.8
G106	11/14/2023	13:51	14.21	17.4	63.3	7.04	879.4	3.41	13.53	45.6
G106	11/14/2023	13:54	14.21	17.3	63.1	7.02	877.9	3.58	8.61	48.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G107	11/14/2023	13:24	14.40	17.0	62.6	7.41	752.3	5.34	7.64	28.4
G107	11/14/2023	13:27	14.40	17.3	63.1	7.22	755.6	2.81	9.31	18.2
G107	11/14/2023	13:30	14.40	17.4	63.3	7.20	753.6	3.22	11.22	21.3
G107	11/14/2023	13:33	14.40	17.4	63.3	7.20	753.1	3.24	12.34	25.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G108	11/14/2023	13:09	14.96	16.9	62.4	7.29	744.2	4.72	3.45	-53.6
G108	11/14/2023	13:12	14.96	17.3	63.1	7.22	747.6	3.28	3.61	-77.3
G108	11/14/2023	13:15	14.96	17.8	64.0	7.20	751.7	2.63	4.03	-70.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G109	11/14/2023	12:53	15.09	16.6	61.9	7.06	940.6	2.55	11.44	55.2
G109	11/14/2023	12:56	15.09	16.7	62.1	7.03	939.6	1.53	11.84	51.3
G109	11/14/2023	12:59	15.09	16.7	62.1	7.03	938.7	1.28	14.68	50.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G110	11/14/2023	12:26	15.43	17.1	62.8	6.97	898.4	1.78	20.13	2.3
G110	11/14/2023	12:29	15.43	17.1	62.8	6.95	904.9	1.35	17.91	-3.4
G110	11/14/2023	12:32	15.43	17.1	62.8	6.93	906.1	1.16	15.55	-3.0
G110	11/14/2023	12:35	15.43	17.1	62.8	6.93	906.0	1.11	16.01	0.0
G110	11/14/2023	12:38	15.43	17.1	62.8	6.93	907.6	1.07	15.26	1.1
G110	11/14/2023	12:41	15.43	17.3	63.1	6.94	908.2	0.98	15.24	1.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G111	11/14/2023	11:53	16.09	17.3	63.1	7.23	857.1	2.61	13.77	6.6
G111	11/14/2023	11:56	16.09	17.4	63.3	7.16	821.3	1.56	9.03	4.3
G111	11/14/2023	11:59	16.09	17.4	63.3	7.14	817.6	1.15	8.45	9.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G119	11/15/2023	9:46	16.25	16.6	61.9	7.30	700.6	4.25	11.84	111.6
G119	11/15/2023	9:49	16.25	16.6	61.9	7.22	702.6	3.50	8.82	114.5
G119	11/15/2023	9:52	16.25	16.6	61.9	7.20	703.4	2.93	6.76	114.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G120	11/15/2023	9:31	17.08	16.3	61.3	7.16	873.7	5.96	8.78	115.7
G120	11/15/2023	9:34	17.08	16.5	61.7	7.04	878.3	4.18	6.70	121.1
G120	11/15/2023	9:37	17.08	16.6	61.9	7.02	875.6	4.11	8.07	121.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G121	11/15/2023	9:17	18.96	16.2	61.2	6.97	948.6	3.87	14.43	122.0
G121	11/15/2023	9:20	18.96	16.4	61.5	6.95	949.6	3.41	10.42	122.5
G121	11/15/2023	9:23	18.96	16.4	61.5	6.94	946.8	3.52	10.14	122.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G122	11/15/2023	8:57	20.40	15.3	59.5	6.89	1,209.1	5.07	7.56	123.9
G122	11/15/2023	9:00	20.40	15.4	59.7	6.81	1,187.0	3.94	14.24	127.1
G122	11/15/2023	9:03	20.40	15.6	60.1	6.79	1,181.7	4.55	12.66	128.3
G122	11/15/2023	9:06	20.40	15.7	60.3	6.79	1,178.9	4.50	12.43	128.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G123	11/15/2023	8:41	19.94	15.2	59.4	6.70	945.6	2.29	6.93	132.6
G123	11/15/2023	8:44	19.94	15.2	59.4	6.81	946.0	1.48	7.46	124.2
G123	11/15/2023	8:47	19.94	15.3	59.5	6.87	941.5	1.21	7.42	118.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G124	Dry- No Sample									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G125	Dry- No sample									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G126	11/15/2023	11:05	11.91	17.2	63.0	7.23	889.2	3.74	9.30	101.7
G126	11/15/2023	11:08	11.91	17.2	63.0	7.14	891.4	1.67	4.98	90.5
G126	11/15/2023	11:11	11.91	17.3	63.1	7.12	887.2	1.38	5.81	87.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G151	11/15/2023	11:31	12.97	17.4	63.3	7.23	912.4	3.29	22.57	102.7
G151	11/15/2023	11:34	12.97	17.5	63.5	7.22	908.2	3.10	14.82	102.4
G151	11/15/2023	11:37	12.97	17.5	63.5	7.22	905.4	2.99	12.16	102.5
G151	11/15/2023	11:40	12.97	17.5	63.5	7.23	906.2	3.05	9.81	102.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G152	11/20/2023	8:15	13.03	14.5	58.1	6.41	1,123.3	3.76	161.73	135.5
G152	11/20/2023	8:18	13.03	14.8	58.6	6.59	1,020.5	3.09	109.10	113.0
G152	11/20/2023	8:21	13.03	15.1	59.2	6.70	934.0	2.56	69.58	104.0
G152	11/20/2023	8:24	13.03	15.6	60.1	6.77	874.7	2.28	54.94	97.6
G152	11/20/2023	8:27	13.03	15.4	59.7	6.83	854.4	2.08	49.05	94.6
G152	11/20/2023	8:30	13.03	16.0	60.8	6.85	845.9	2.01	50.74	88.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G153	11/15/2023	13:32	14.90	17.2	63.0	6.81	4,156.1	2.66	23.13	-78.0
G153	11/15/2023	13:35	14.90	17.2	63.0	6.79	4,030.0	1.66	12.56	-73.5
G153	11/15/2023	13:38	14.90	17.2	63.0	6.80	3,970.3	1.58	14.37	-80.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G154	11/15/2023	12:39	15.76	17.1	62.8	7.37	661.3	1.68	35.58	103.9
G154	11/15/2023	12:42	15.76	17.0	62.6	7.36	660.9	1.50	26.04	103.0
G154	11/15/2023	12:45	15.76	17.0	62.6	7.36	660.7	1.44	21.12	102.3
G154	11/15/2023	12:48	15.76	17.0	62.6	7.36	660.4	1.44	14.64	101.5
G154	11/15/2023	12:51	15.76	17.0	62.6	7.36	660.2	1.41	15.28	101.0
G154	11/15/2023	12:54	15.76	17.0	62.6	7.36	660.6	1.37	10.96	100.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G155	11/15/2023	12:04	13.92	18.1	64.6	7.22	923.4	3.49	63.66	100.1
G155	11/15/2023	12:07	13.92	18.1	64.6	7.23	919.1	3.55	55.28	100.3
G155	11/15/2023	12:10	13.92	18.1	64.6	7.23	918.1	3.39	40.61	100.5
G155	11/15/2023	12:13	13.92	18.1	64.6	7.22	918.6	3.05	31.70	100.6
G155	11/15/2023	12:16	13.92	18.1	64.6	7.23	917.0	2.80	32.49	100.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G200	11/14/2023	9:55	11.88	15.7	60.3	7.16	792.8	0.98	105.29	98.4
G200	11/14/2023	9:58	11.88	15.7	60.3	7.16	792.8	1.00	103.48	97.2
G200	11/14/2023	10:01	11.88	16.0	60.8	7.16	793.4	0.98	101.80	96.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G206	11/15/2023	14:25	16.16	17.4	63.3	7.44	811.3	4.80	9.67	-165.3
G206	11/15/2023	14:28	16.16	17.4	63.3	7.46	802.7	1.94	5.52	-228.7
G206	11/15/2023	14:31	16.16	17.6	63.7	7.46	801.2	1.21	5.73	-255.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G206D	11/17/2023	8:36	30.40	16.0	60.8	7.33	991.1	7.35	5.86	95.1
G206D	11/17/2023	8:39	30.40	15.1	59.2	7.09	999.7	2.78	7.65	-14.3
G206D	11/17/2023	8:42	30.40	15.0	59.0	7.14	996.3	1.85	8.10	-53.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G207	11/14/2023	8:43	16.67	15.6	60.1	6.17	633.0	5.58	9.64	154.7
G207	11/14/2023	8:46	16.67	16.0	60.8	6.58	630.8	4.49	9.19	137.8
G207	11/14/2023	8:49	16.67	16.4	61.5	6.73	632.0	2.35	8.49	130.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G208	11/17/2023	8:15	16.66	16.3	61.3	6.48	533.6	5.11	14.31	164.5
G208	11/17/2023	8:18	16.66	16.2	61.2	6.90	530.0	3.52	14.70	146.3
G208	11/17/2023	8:21	16.66	16.2	61.2	7.04	525.6	3.28	9.42	138.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G209	11/16/2023	14:33	16.24	16.3	61.3	7.04	1,216.7	2.93	13.02	61.6
G209	11/16/2023	14:36	16.24	16.4	61.5	7.01	1,213.8	1.74	6.90	1.7
G209	11/16/2023	14:39	16.24	16.3	61.3	7.00	1,212.9	1.52	4.71	-22.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G210	11/16/2023	14:12	15.82	16.4	61.5	7.32	851.3	1.97	23.81	93.4
G210	11/16/2023	14:15	15.82	16.3	61.3	7.30	849.9	1.43	19.50	91.3
G210	11/16/2023	14:18	15.82	16.2	61.2	7.29	848.3	1.16	13.88	89.4
G210	11/16/2023	14:21	15.82	16.3	61.3	7.29	848.2	1.05	11.03	87.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G211	11/16/2023	13:38	15.61	16.9	62.4	7.26	788.1	1.28	35.54	25.4
G211	11/16/2023	13:41	15.61	16.8	62.2	7.25	787.3	1.09	28.15	32.4
G211	11/16/2023	13:44	15.61	16.8	62.2	7.25	786.5	0.98	22.72	37.2
G211	11/16/2023	13:47	15.61	16.8	62.2	7.26	786.0	0.89	20.65	40.6
G211	11/16/2023	13:50	15.61	16.9	62.4	7.26	785.1	0.87	17.85	43.1
G211	11/16/2023	13:53	15.61	17.2	63.0	7.26	786.9	0.86	18.68	43.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G212	11/16/2023	13:06	16.92	17.2	63.0	7.38	675.5	6.06	7.01	101.4
G212	11/16/2023	13:09	16.92	17.0	62.6	7.19	680.5	3.10	7.21	103.3
G212	11/16/2023	13:12	16.92	16.8	62.2	7.15	680.4	2.36	6.74	102.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G213	11/16/2023	12:36	17.41	16.7	62.1	7.09	658.0	1.37	19.33	91.5
G213	11/16/2023	12:39	17.41	16.7	62.1	7.08	659.3	1.10	19.30	89.2
G213	11/16/2023	12:42	17.41	16.7	62.1	7.09	659.5	0.98	63.05	86.8
G213	11/16/2023	12:45	17.41	16.6	61.9	7.09	660.5	0.90	10.10	85.1
G213	11/16/2023	12:48	17.41	16.5	61.7	7.09	661.7	0.84	6.19	83.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G214	11/16/2023	12:12	19.35	16.8	62.2	7.18	973.9	3.86	23.10	84.2
G214	11/16/2023	12:15	19.35	16.8	62.2	7.12	934.5	2.86	14.03	83.3
G214	11/16/2023	12:18	19.35	16.8	62.2	7.12	923.5	2.38	8.33	82.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G215	11/16/2023	11:43	19.03	17.1	62.8	6.95	1,768.5	1.93	39.55	-7.7
G215	11/16/2023	11:46	19.03	17.2	63.0	6.94	1,771.1	1.71	25.21	-9.8
G215	11/16/2023	11:49	19.03	17.2	63.0	6.94	1,769.8	1.60	25.70	-11.4
G215	11/16/2023	11:52	19.03	17.3	63.1	6.94	1,767.7	1.53	26.69	-11.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G216	11/16/2023	11:11	18.21	16.4	61.5	6.94	2,136.7	3.19	35.55	-63.6
G216	11/16/2023	11:14	18.21	16.3	61.3	6.92	2,132.7	2.99	19.59	-57.8
G216	11/16/2023	11:17	18.21	16.3	61.3	6.92	2,126.8	2.74	13.54	-55.7
G216	11/16/2023	11:20	18.21	16.4	61.5	6.92	2,125.6	2.95	13.72	-53.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G217	11/16/2023	10:33	19.68	16.1	61.0	6.89	1,476.7	1.54	25.77	31.9
G217	11/16/2023	10:34	19.68	16.1	61.0	6.89	1,477.3	1.23	22.81	27.8
G217	11/16/2023	10:37	19.68	16.1	61.0	6.88	1,478.5	0.98	17.20	22.4
G217	11/16/2023	10:40	19.68	16.1	61.0	6.88	1,478.6	0.84	14.66	17.6
G217	11/16/2023	10:43	19.68	16.1	61.0	6.88	1,478.6	0.75	11.29	15.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G218	11/16/2023	10:04	18.67	15.8	60.4	6.79	1,530.9	0.80	26.69	18.2
G218	11/16/2023	10:07	18.67	15.8	60.4	6.81	1,533.0	0.72	24.87	7.7
G218	11/16/2023	10:10	18.67	15.8	60.4	6.83	1,532.5	0.66	21.94	0.5
G218	11/16/2023	10:13	18.67	15.8	60.4	6.84	1,531.8	0.63	20.47	-4.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G270	11/17/2023	9:04	10.90	15.1	59.2	7.22	693.3	4.44	18.20	98.1
G270	11/17/2023	9:07	10.90	15.1	59.2	7.16	693.4	2.80	12.65	98.5
G270	11/17/2023	9:10	10.90	15.1	59.2	7.13	691.0	2.22	10.81	97.9
G270	11/17/2023	9:13	10.90	15.2	59.4	7.12	688.8	1.91	9.98	97.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G271	11/17/2023	9:30	13.00	16.2	61.2	7.35	1,002.7	5.87	6.77	109.2
G271	11/17/2023	9:33	13.00	16.3	61.3	7.32	858.1	5.48	7.98	109.9
G271	11/17/2023	9:36	13.00	16.4	61.5	7.28	854.3	5.15	7.98	111.5
G271	11/17/2023	9:39	13.00	16.3	61.3	7.23	881.3	4.07	8.11	112.8
G271	11/17/2023	9:42	13.00	16.3	61.3	7.18	919.5	2.89	7.14	113.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G272	11/17/2023	10:04	12.01	15.9	60.6	7.20	1,373.9	4.45	35.97	120.9
G272	11/17/2023	10:07	12.01	15.4	59.7	7.16	1,381.9	3.70	32.60	122.0
G272	11/17/2023	10:10	12.01	15.0	59.0	7.16	1,354.0	3.43	25.94	121.8
G272	11/17/2023	10:13	12.01	14.8	58.6	7.17	1,319.0	3.44	17.96	121.2
G272	11/17/2023	10:16	12.01	14.8	58.6	7.17	1,286.9	3.46	12.25	120.8
G272	11/17/2023	10:19	12.01	14.8	58.6	7.18	1,270.8	3.42	8.75	120.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G273	11/17/2023	10:31	12.71	16.0	60.8	7.27	1,433.5	6.07	10.87	121.4
G273	11/17/2023	10:34	12.71	16.3	61.3	7.08	1,359.1	2.59	11.56	126.0
G273	11/17/2023	10:37	12.71	16.4	61.5	7.05	1,349.7	1.60	8.19	125.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G274	11/17/2023	10:54	15.77	16.1	61.0	7.23	970.0	3.68	14.70	121.5
G274	11/17/2023	10:57	15.77	15.6	60.1	7.15	971.2	2.36	10.50	124.6
G274	11/17/2023	11:00	15.77	15.6	60.1	7.08	1,086.9	1.68	8.07	126.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G275	Dry- No Sample									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G275D	Dry- No Sample									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G276	11/17/2023	11:26	28.59	15.2	59.4	6.95	1,265.1	5.76	8.51	134.4
G276	11/17/2023	11:29	28.59	15.2	59.4	6.93	1,262.9	4.96	12.82	135.1
G276	11/17/2023	11:32	28.59	15.1	59.2	6.93	1,261.5	4.64	14.56	134.5
G276	11/17/2023	11:35	28.59	15.0	59.0	6.93	1,259.0	4.33	13.17	134.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G277	Dry- No Sample									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G278	11/20/2023	9:25	24.23	15.8	60.4	6.77	4,640.7	2.17	19.80	125.2
G278	11/20/2023	9:28	24.23	16.1	61.0	6.77	4,539.1	1.55	11.60	126.7
G278	11/20/2023	9:31	24.23	16.2	61.2	6.78	4,574.2	1.28	9.80	126.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G279	11/17/2023	11:57	23.39	16.5	61.7	6.80	6,160.9	4.08	9.12	138.9
G279	11/17/2023	12:00	23.39	16.5	61.7	6.75	5,946.7	1.91	9.44	142.7
G279	11/17/2023	12:03	23.39	16.8	62.2	6.76	5,637.0	1.41	7.29	140.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G280	11/20/2023	9:44	8.91	14.9	58.8	7.64	909.6	6.51	6.49	98.0
G280	11/20/2023	9:47	8.91	14.7	58.5	7.46	857.1	2.93	7.72	104.3
G280	11/20/2023	9:50	8.91	14.7	58.5	7.39	849.2	1.79	7.89	106.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G281	11/20/2023	8:50	8.59	15.8	60.4	6.96	1,260.9	3.36	13.13	103.7
G281	11/20/2023	8:53	8.59	16.0	60.8	6.90	1,255.0	1.81	14.90	109.9
G281	11/20/2023	8:56	8.59	16.1	61.0	6.90	1,254.0	1.54	9.45	111.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G283	11/20/2023	10:19	7.22	12.9	55.2	7.10	1,187.6	3.06	52.58	126.7
G283	11/20/2023	10:22	7.22	12.7	54.9	7.07	1,187.5	2.50	39.82	125.6
G283	11/20/2023	10:25	7.22	12.6	54.7	7.06	1,188.3	2.19	36.24	122.0
G283	11/20/2023	10:28	7.22	12.6	54.7	7.05	1,187.5	1.96	29.43	114.2
G283	11/20/2023	10:31	7.22	12.7	54.9	7.04	1,187.9	1.81	26.08	102.0
G283	11/20/2023	10:34	7.22	12.6	54.7	7.04	1,188.8	1.72	23.55	88.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G284	Dry- No Sample									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G285	11/20/2023	10:56	9.38	13.2	55.8	6.77	1,937.2	4.75	12.74	127.5
G285	11/20/2023	10:59	9.38	12.8	55.0	6.73	1,949.2	3.39	18.78	123.1
G285	11/20/2023	11:02	9.38	12.0	53.6	6.71	1,949.5	3.14	20.29	117.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G286	11/13/2023	12:46								

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G288	11/13/2023	12:49	9.84							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G301	11/20/2023	10:27	8.25	15.4	59.7	6.48	1,173.7	1.90	21.40	-83.1
G301	11/20/2023	10:30	8.25	15.5	59.9	6.46	1,171.9	1.57	13.72	-75.0
G301	11/20/2023	10:33	8.25	15.4	59.7	6.45	1,170.4	1.36	8.94	-67.0
G301	11/20/2023	10:36	8.25	15.4	59.7	6.44	1,170.0	1.18	6.71	-68.1
G301	11/20/2023	10:39	8.25	15.5	59.9	6.43	1,167.9	1.06	5.92	-60.6
G301	11/20/2023	10:42	8.25	15.5	59.9	6.43	1,167.1	1.01	4.98	-48.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G302	11/20/2023	12:13	12.73	15.4	59.7	6.52	1,394.2	1.16	55.73	-98.3
G302	11/20/2023	12:16	12.73	15.4	59.7	6.50	1,385.1	1.00	31.78	-90.0
G302	11/20/2023	12:19	12.73	15.4	59.7	6.50	1,379.7	0.90	20.98	-84.0
G302	11/20/2023	12:22	12.73	15.4	59.7	6.50	1,377.3	0.84	15.08	-80.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G303	11/21/2023	11:19	8.90	14.1	57.4	6.63	1,943.6	2.53	39.97	-32.3
G303	11/21/2023	11:22	8.90	14.0	57.2	6.64	1,939.3	2.63	42.29	-29.7
G303	11/21/2023	11:25	8.90	14.0	57.2	6.64	1,937.6	2.58	27.57	-28.3
G303	11/21/2023	11:28	8.90	14.0	57.2	6.63	1,945.3	2.52	26.96	-27.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G305	11/17/2023	10:46	9.25	15.1	59.2	6.92	1,781.1	1.00	18.26	14.5
G305	11/17/2023	10:49	9.25	15.1	59.2	6.92	1,781.0	0.87	13.21	13.9
G305	11/17/2023	10:52	9.25	15.1	59.2	6.92	1,781.7	0.79	12.22	12.7
G305	11/17/2023	10:55	9.25	15.1	59.2	6.91	1,780.7	0.73	10.90	12.0

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G306	11/17/2023	12:20	9.84	15.3	59.5	6.24	825.6	1.82	70.20	58.4
G306	11/17/2023	12:23	9.84	15.3	59.5	6.20	805.5	1.81	40.12	61.4
G306	11/17/2023	12:26	9.84	15.3	59.5	6.18	785.5	1.83	31.14	64.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G307	11/21/2023	9:28	1.33	12.9	55.2	6.85	1,192.6	3.84	29.94	104.1
G307	11/21/2023	9:31	1.33	13.1	55.6	6.85	1,187.5	3.64	26.06	102.8
G307	11/21/2023	9:34	1.33	13.1	55.6	6.86	1,185.6	3.56	23.63	101.7
G307	11/21/2023	9:37	1.33	13.2	55.8	6.85	1,184.2	3.41	22.01	100.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G307D	11/17/2023	11:29	11.72	15.6	60.1	6.97	1,464.6	1.01	38.57	-82.8
G307D	11/17/2023	11:32	11.72	15.5	59.9	6.99	1,465.2	0.88	49.02	-92.7
G307D	11/17/2023	11:35	11.72	15.4	59.7	6.99	1,466.4	0.82	43.76	-97.9
G307D	11/17/2023	11:38	11.72	15.4	59.7	6.99	1,466.9	0.79	53.44	-100.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G308	11/17/2023	10:02	5.82	16.0	60.8	6.91	1,871.6	1.28	12.21	12.5
G308	11/17/2023	10:05	5.82	16.0	60.8	6.90	1,872.6	1.03	11.00	8.2
G308	11/17/2023	10:08	5.82	16.0	60.8	6.89	1,872.5	0.90	9.36	6.0
G308	11/17/2023	10:11	5.82	16.0	60.8	6.89	1,872.4	0.81	7.41	5.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G309	11/13/2023	10:51	8.32							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G310	11/20/2023	9:40	10.63	15.7	60.3	6.80	1,390.0	1.44	6.49	96.6
G310	11/20/2023	9:43	10.63	15.7	60.3	6.81	1,389.7	1.27	5.29	92.5
G310	11/20/2023	9:46	10.63	15.7	60.3	6.83	1,388.5	1.15	3.80	88.9
G310	11/20/2023	9:49	10.63	15.7	60.3	6.83	1,388.8	1.06	2.93	85.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G312	Dry- No Sample									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G313	11/20/2023	13:55	3.13	15.8	60.4	6.68	1,728.8	1.27	13.65	1.3
G313	11/20/2023	13:58	3.13	15.8	60.4	6.67	1,729.3	1.06	10.07	3.2
G313	11/20/2023	14:01	3.13	15.9	60.6	6.67	1,730.6	0.94	8.66	4.9
G313	11/20/2023	14:04	3.13	15.9	60.6	6.67	1,730.7	0.86	6.44	6.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G314	11/20/2023	15:18	5.88	15.3	59.5	6.35	3,331.3	1.02	11.13	-38.8
G314	11/20/2023	15:21	5.88	15.1	59.2	6.45	3,272.8	1.27	9.89	-36.2
G314	11/20/2023	15:24	5.88	15.1	59.2	6.51	3,239.1	1.67	7.19	-33.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G314D	11/20/2023	14:40	8.05	14.5	58.1	6.73	2,661.3	1.04	18.63	-49.0
G314D	11/20/2023	14:43	8.05	14.5	58.1	6.73	2,660.3	0.92	15.74	-50.6
G314D	11/20/2023	14:46	8.05	14.4	57.9	6.73	2,661.2	0.84	17.52	-52.2
G314D	11/20/2023	14:49	8.05	14.4	57.9	6.73	2,661.2	0.79	15.71	-53.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G315	11/21/2023	10:28	2.93	14.0	57.2	6.55	1,378.5	1.96	5.76	105.0
G315	11/21/2023	10:31	2.93	14.0	57.2	6.54	1,377.7	1.72	5.99	103.5
G315	11/21/2023	10:34	2.93	14.0	57.2	6.54	1,377.6	1.54	4.64	102.0
G315	11/21/2023	10:37	2.93	14.0	57.2	6.54	1,376.9	1.43	4.27	100.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G316	11/20/2023	13:12	12.48	15.0	59.0	6.78	1,862.6	1.41	3.10	-113.4
G316	11/20/2023	13:15	12.48	15.0	59.0	6.77	1,875.4	1.24	1.81	-115.3
G316	11/20/2023	13:18	12.48	15.0	59.0	6.76	1,888.0	1.10	1.54	-116.0
G316	11/20/2023	13:21	12.48	15.0	59.0	6.76	1,893.4	1.00	1.41	-117.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G317	11/13/2023	12:55								

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G401	11/21/2023	9:15	13.63	13.4	56.1	5.88	2,830.8	1.50	35.57	13.7
G401	11/21/2023	9:18	13.63	13.4	56.1	5.88	2,821.4	1.30	26.18	14.4
G401	11/21/2023	9:21	13.63	13.2	55.8	5.89	2,829.6	1.20	28.47	14.5
G401	11/21/2023	9:24	13.63	12.9	55.2	5.89	2,830.7	1.13	28.02	14.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond ($\mu\text{S}/\text{cm}$)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G402	11/21/2023	8:28	11.71	15.1	59.2	6.31	1,535.2	6.03	19.81	183.5
G402	11/21/2023	8:31	11.71	15.0	59.0	6.52	1,578.9	3.36	21.44	168.2
G402	11/21/2023	8:34	11.71	15.0	59.0	6.60	1,580.3	3.01	23.12	161.8
G402	11/21/2023	8:37	11.71	15.0	59.0	6.66	1,578.9	3.40	21.11	157.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G403	11/20/2023	11:35	8.27	15.0	59.0	7.04	692.6	2.28	12.76	111.7
G403	11/20/2023	11:38	8.27	15.1	59.2	6.94	687.0	1.53	8.74	112.6
G403	11/20/2023	11:41	8.27	15.1	59.2	6.90	684.6	1.22	4.18	112.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G404	11/21/2023	9:58	6.48	14.6	58.3	6.69	2,149.5	3.47	31.63	63.9
G404	11/21/2023	10:01	6.48	14.2	57.6	6.70	2,130.3	2.52	20.63	72.0
G404	11/21/2023	10:04	6.48	14.0	57.2	6.68	2,078.6	2.19	11.74	78.9
G404	11/21/2023	10:07	6.48	13.7	56.7	6.67	2,027.5	2.09	8.10	84.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G405	11/21/2023	10:26	7.73	14.6	58.3	7.17	1,718.3	5.79	9.78	88.3
G405	11/21/2023	10:29	7.73	15.0	59.0	7.01	1,747.4	3.87	6.07	85.5
G405	11/21/2023	10:32	7.73	15.3	59.5	6.95	1,837.0	3.08	5.50	75.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G406	11/20/2023	13:14	13.83	15.7	60.3	7.01	1,218.6	6.86	6.82	111.2
G406	11/20/2023	13:17	13.83	15.5	59.9	6.66	1,215.0	3.17	6.14	124.9
G406	11/20/2023	13:20	13.83	15.7	60.3	6.59	1,206.3	1.81	3.02	127.4

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G407	11/20/2023	12:09	8.31	14.6	58.3	6.54	2,910.1	6.20	13.64	148.5
G407	11/20/2023	12:12	8.31	14.5	58.1	6.50	3,125.0	2.81	16.09	140.5
G407	11/20/2023	12:15	8.31	14.3	57.7	6.55	3,057.3	1.86	13.43	129.0
G407	11/20/2023	12:18	8.31	14.2	57.6	6.57	2,982.8	1.56	10.49	124.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G410	11/20/2023	12:44	10.68	15.3	59.5	6.88	1,318.9	1.97	20.12	57.0
G410	11/20/2023	12:47	10.68	15.4	59.7	6.81	1,230.7	1.42	8.73	33.9
G410	11/20/2023	12:50	10.68	15.3	59.5	6.77	1,211.1	1.18	5.06	28.2

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G411	11/20/2023	13:44	11.20	14.9	58.8	7.35	956.7	3.21	15.61	114.9
G411	11/20/2023	13:47	11.20	14.7	58.5	7.30	883.8	2.00	9.58	115.5
G411	11/20/2023	13:50	11.20	14.6	58.3	7.28	896.2	1.53	5.72	115.5

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G1001	11/14/2023	11:21	6.49	17.8	64.0	6.99	1,526.9	3.49	39.67	-46.8
G1001	11/14/2023	11:24	6.49	17.7	63.9	7.03	1,457.7	3.77	30.87	-43.4
G1001	11/14/2023	11:27	6.49	17.3	63.1	7.07	1,371.0	3.80	15.82	-39.2
G1001	11/14/2023	11:30	6.49	16.9	62.4	7.04	1,298.5	2.88	15.66	-20.6
G1001	11/14/2023	11:33	6.49	16.7	62.1	7.00	1,259.0	2.02	11.36	-7.1
G1001	11/14/2023	11:36	6.49	16.7	62.1	6.97	1,220.2	1.59	10.35	0.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G1003	11/13/2023	10:20								

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
L202	11/16/2023	13:38	22.00	20.9	69.6	11.57	15,796.2	6.41	15.47	-92.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
MW03D	11/13/2023	9:57	32.01							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
MW12D	11/13/2023	10:41	15.64							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
MW20S	11/13/2023	9:54	11.96							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
NW Riser	Unable to collect elevation (no tra									

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
R104	11/14/2023	14:34	12.91	16.8	62.2	7.43	785.3	2.90	14.76	-38.5
R104	11/14/2023	14:37	12.91	17.0	62.6	7.39	770.7	3.21	6.63	-29.9
R104	11/14/2023	14:40	12.91	17.1	62.8	7.41	765.9	3.62	3.74	-21.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
R201	11/14/2023	10:28	11.73	15.7	60.3	6.97	1,172.0	1.24	23.44	-94.1
R201	11/14/2023	10:31	11.73	15.7	60.3	6.99	1,158.8	0.99	15.82	-95.4
R201	11/14/2023	10:34	11.73	15.8	60.4	6.99	1,160.6	0.84	13.17	-96.6
R201	11/14/2023	10:37	11.73	16.0	60.8	6.99	1,157.1	0.75	13.87	-96.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
R205	11/20/2023	14:24	11.48	14.5	58.1	6.76	1,385.0	1.55	54.07	131.7
R205	11/20/2023	14:27	11.48	14.5	58.1	6.76	1,387.4	1.28	37.24	130.7
R205	11/20/2023	14:30	11.48	14.5	58.1	6.76	1,391.7	1.18	30.99	129.7
R205	11/20/2023	14:33	11.48	14.4	57.9	6.77	1,393.3	1.05	26.72	128.7
R205	11/20/2023	14:36	11.48	14.6	58.3	6.77	1,391.8	1.00	23.73	127.7
R205	11/20/2023	14:39	11.48	14.6	58.3	6.77	1,393.0	0.98	24.11	126.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
SG-02	11/13/2023	14:03	7.36							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
SG-03	11/13/2023	13:53	9.71							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
SG-04	11/13/2023	14:21	6.32							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
T127	11/15/2023	10:31	15.95	17.3	63.1	7.12	788.3	2.68	214.38	98.3
T127	11/15/2023	10:34	15.95	17.6	63.7	7.11	785.6	2.41	168.93	98.5
T127	11/15/2023	10:37	15.95	17.6	63.7	7.10	784.9	2.14	120.74	97.9
T127	11/15/2023	10:40	15.95	17.8	64.0	7.10	784.2	2.08	113.87	97.3
T127	11/15/2023	10:43	15.95	17.9	64.2	7.10	783.8	2.06	97.36	96.5
T127	11/15/2023	10:46	15.95	17.9	64.2	7.10	784.7	1.92	75.93	95.4
T127	11/15/2023	10:49	15.95	18.0	64.4	7.10	785.7	1.66	52.11	93.8
T127	11/15/2023	10:52	15.95	18.0	64.4	7.10	784.4	1.44	53.59	92.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
T128	11/15/2023	10:05	15.50	16.7	62.1	7.06	729.9	2.91	3.22	111.5
T128	11/15/2023	10:08	15.50	16.8	62.2	7.00	728.0	1.90	3.31	100.3
T128	11/15/2023	10:11	15.50	16.9	62.4	6.99	725.6	1.48	3.18	96.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
X201	11/20/2023	14:08	34.00	12.7	54.9	6.63	22,523.7	9.63	5.23	140.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XPW01	11/17/2023	9:30	6.28	18.4	65.1	7.14	1,311.8	1.51	26.25	-76.8
XPW01	11/17/2023	9:33	6.28	18.4	65.1	7.14	1,313.3	1.36	8.59	-71.4
XPW01	11/17/2023	9:36	6.28	18.4	65.1	7.14	1,314.7	1.31	4.14	-73.8
XPW01	11/17/2023	9:39	6.28	18.4	65.1	7.14	1,314.9	1.20	24.81	-83.1

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XPW02	11/17/2023	8:53	11.13	19.5	67.1	7.54	783.8	1.70	4.88	-35.8
XPW02	11/17/2023	8:56	11.13	19.5	67.1	7.56	785.5	1.48	5.31	-74.6
XPW02	11/17/2023	8:59	11.13	19.5	67.1	7.58	788.8	1.38	5.47	-94.2
XPW02	11/17/2023	9:02	11.13	19.5	67.1	7.60	790.2	1.32	3.86	-106.8

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XSG-01	11/13/2023	13:16	10.38							

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
Field Blank	11/21/2023	10:36								

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G102 Duplicate	11/14/2023	15:31	12.84	16.4	61.5	7.31	887.2	1.11	34.34	24.9
G102 Duplicate	11/14/2023	15:34	12.84	16.4	61.5	7.30	883.5	0.90	29.22	20.2
G102 Duplicate	11/14/2023	15:37	12.84	16.4	61.5	7.30	881.0	0.78	26.48	17.9

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G200 Duplicate	11/14/2023	9:55	11.88	15.7	60.3	7.16	792.8	0.98	105.29	98.4
G200 Duplicate	11/14/2023	9:58	11.88	15.7	60.3	7.16	792.8	1.00	103.48	97.2
G200 Duplicate	11/14/2023	10:01	11.88	16.0	60.8	7.16	793.4	0.98	101.80	96.6

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G273 Duplicate	11/17/2023	10:31	12.71	16.0	60.8	7.27	1,433.5	6.07	10.87	121.4
G273 Duplicate	11/17/2023	10:34	12.71	16.3	61.3	7.08	1,359.1	2.59	11.56	126.0
G273 Duplicate	11/17/2023	10:37	12.71	16.4	61.5	7.05	1,349.7	1.60	8.19	125.3

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G301 Duplicate	11/20/2023	10:27	8.25	15.4	59.7	6.48	1,173.7	1.90	21.40	-83.1
G301 Duplicate	11/20/2023	10:30	8.25	15.5	59.9	6.46	1,171.9	1.57	13.72	-75.0
G301 Duplicate	11/20/2023	10:33	8.25	15.4	59.7	6.45	1,170.4	1.36	8.94	-67.0
G301 Duplicate	11/20/2023	10:36	8.25	15.4	59.7	6.44	1,170.0	1.18	6.71	-68.1
G301 Duplicate	11/20/2023	10:39	8.25	15.5	59.9	6.43	1,167.9	1.06	5.92	-60.6
G301 Duplicate	11/20/2023	10:42	8.25	15.5	59.9	6.43	1,167.1	1.01	4.98	-48.7

Site Sampling Event: Coffeen 4Q 2023

Groundwater Sampling Field Form- Groundwater Quality Parameters

COFFEEN POWER PLANT, ASH POND NO. 1

COF-257-101

LIMS Workorder: 23110002

Coffeen- 4Q 2023

Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (μ S/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
R201 Duplicate	11/14/2023	10:28	11.73	15.7	60.3	6.97	1,172.0	1.24	23.44	-94.1
R201 Duplicate	11/14/2023	10:31	11.73	15.7	60.3	6.99	1,158.8	0.99	15.82	-95.4
R201 Duplicate	11/14/2023	10:34	11.73	15.8	60.4	6.99	1,160.6	0.84	13.17	-96.6
R201 Duplicate	11/14/2023	10:37	11.73	16.0	60.8	6.99	1,157.1	0.75	13.87	-96.6

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Field Calibration Log(s)

Coffeen- 4Q 2023

Field Temp SOP 1156 - SM 2550 B
 Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
 Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: 29218
 Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.01	11/14/23 8:14
7.0 Buffer	wc230616f	7.03	11/14/23 8:19
10.0 Buffer	wc231027d	9.99	11/14/23 8:25
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 μ S Std.	87241	1415	11/14/23 8:30

Sample ID	Date/Time	Temp. °C	pH	Conductivity μ S	Comments
LCS	11/14/23 8:42	18.1	7.03	1424	
ccv	11/14/23 16:15	19.8	7.05	1476	

Field Meter ID: 29218
 Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.00	11/15/23 8:13
7.0 Buffer	wc230616f	7.02	11/15/23 8:18
10.0 Buffer	wc231027d	10.01	11/15/23 8:23
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 μ S Std.	87241	1413	11/15/23 8:28

Sample ID	Date/Time	Temp. °C	pH	Conductivity μ S	Comments
LCS	11/15/23 8:34	17.6	7.04	1416	
ccv	11/15/23 14:48	19.8	7.04	1468	

Field Meter ID: 29218
 Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.02	11/16/23 9:23
7.0 Buffer	wc230616f	7.01	11/16/23 9:28
10.0 Buffer	wc231027d	9.98	11/16/23 9:33
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 μ S Std.	87241	1429	11/16/23 9:38

Sample ID	Date/Time	Temp. °C	pH	Conductivity μ S	Comments
LCS	11/16/23 9:43	17.6	7.03	1432	
ccv	11/16/23 14:49	19.4	7.03	1444	

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Field Calibration Log(s)

Coffeen- 4Q 2023

Field Meter ID: 29218

Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.00	11/17/23 7:48
7.0 Buffer	wc230616f	7.01	11/17/23 7:53
10.0 Buffer	wc231027d	10.00	11/17/23 7:58
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 μ S Std.	87241	1417	11/17/23 8:03

Sample ID	Date/Time	Temp. °C	pH	Conductivity μ S	Comments
LCS	11/17/23 8:08	18	7.02	1434	
ccv	11/17/23 12:33	19	7.03	1451	

Field Meter ID: 29218

Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.00	11/20/23 7:46
7.0 Buffer	wc230616f	7.01	11/20/23 7:51
10.0 Buffer	wc231027d	9.98	11/20/23 7:56
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 μ S Std.	87241	1414	11/20/23 8:01

Sample ID	Date/Time	Temp. °C	pH	Conductivity μ S	Comments
LCS	11/20/23 8:06	17.6	7.02	1428	
ccv	11/20/23 14:54	18.2	7.04	1467	

Field Meter ID: 29218

Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.01	11/21/23 8:04
7.0 Buffer	wc230616f	7.01	11/21/23 8:09
10.0 Buffer	wc231027d	9.99	11/21/23 8:14
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 μ S Std.	87241	1421	11/21/23 8:19

Sample ID	Date/Time	Temp. °C	pH	Conductivity μ S	Comments
LCS	11/21/23 8:24	15.3	7.03	1443	
ccv	11/21/23 10:37	17.8	7.03	1455	

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Field Calibration Log(s)

Coffeen- 4Q 2023

Field Temp SOP 1156 - SM 2550 B
 Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
 Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 51290
 Technician: Tracy Carroll

	LIMS ID	Calibration reading	Date/Time
pH Standards			
4.0 Buffer	WC230720G	4.00	11/16/23 12:21
7.0 Buffer	WC230616F	7.04	11/16/23 12:24
10.0 Buffer	WC231027D	10.00	11/16/23 12:27
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 μ S Std.	87241	1412	11/16/23 12:32

Sample ID	Date/Time	Temp. °C	pH	Conductivity μ S	Comments
LCS	11/16/23 12:35	17.4	7.06	1412	
ccv	11/16/23 15:20	20.5	7.08	1455	

Field Meter ID: Pine 51290
 Technician: Tracy Carroll

	LIMS ID	Calibration reading	Date/Time
pH Standards			
4.0 Buffer	WC230720G	4.00	11/17/23 8:41
7.0 Buffer	WC230616F	7.02	11/17/23 8:42
10.0 Buffer	WC231027D	10.01	11/17/23 8:44
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 μ S Std.	87241	1412	11/17/23 8:44

Sample ID	Date/Time	Temp. °C	pH	Conductivity μ S	Comments
LCS	11/17/23 8:45	17	7.03	1413	
ccv	11/17/23 14:11	21.2	7.05	1463	

Field Meter ID: Pine 51290
 Technician: Tracy Carroll

	LIMS ID	Calibration reading	Date/Time
pH Standards			
4.0 Buffer	WC230720G	4.02	11/20/23 9:13
7.0 Buffer	WC230616F	7.05	11/20/23 9:16
10.0 Buffer	WC231027D	1002.00	11/20/23 9:17
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 μ S Std.	87241	1412	11/20/23 9:17

Sample ID	Date/Time	Temp. °C	pH	Conductivity μ S	Comments
LCS	11/20/23 9:18	12.2	7.06	1413	
ccv	11/20/23 15:31	17.1	6.96	1458	

Site Sampling Event: Coffeen 4Q 2023

LIMS Workorder: 23110002

Technician(s): DC, JC, TC, BG

Field Calibration Log(s)

Coffeen- 4Q 2023

Field Meter ID: Pine 51290

Technician: Tracy Carroll

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.00	11/21/23 8:32
7.0 Buffer	WC230616F	7.00	11/21/23 8:33
10.0 Buffer	WC231027D	10.00	11/21/23 8:35
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 μ S Std.	87241	1413	11/21/23 8:30

Sample ID	Date/Time	Temp. °C	pH	Conductivity μ S	Comments
LCS	11/21/23 8:37	12.7	6.98	1413	
CCV	11/21/23 11:31	15.2	6.93	1465	

Field Meter ID: _____

Technician: _____

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer			
7.0 Buffer			
10.0 Buffer			
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 μ S Std.			

Sample ID	Date/Time	Temp. °C	pH	Conductivity μ S	Comments
LCS					
CCV					

Field Meter ID: _____

Technician: _____

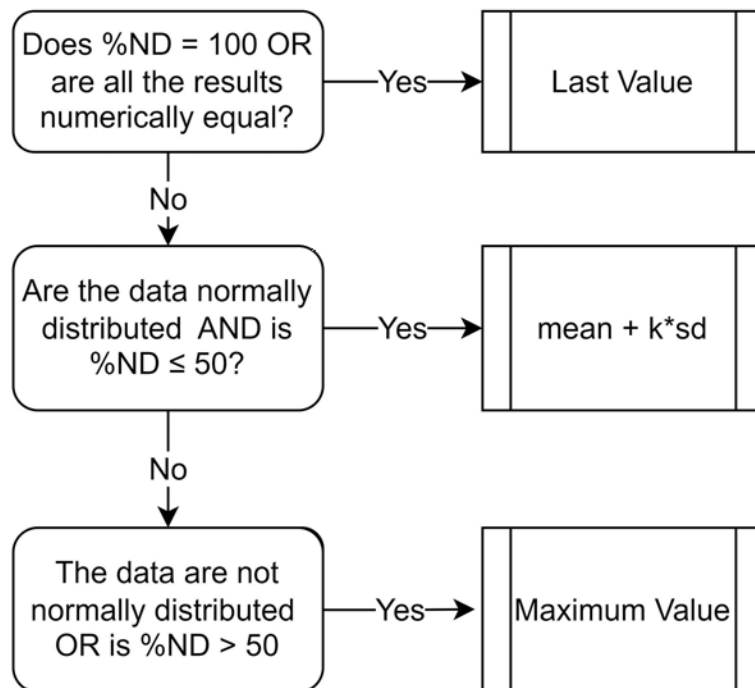
pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer			
7.0 Buffer			
10.0 Buffer			
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 μ S Std.			

Sample ID	Date/Time	Temp. °C	pH	Conductivity μ S	Comments
LCS					
CCV					

APPENDIX B
STATISTICAL METHODOLOGY FOR DETERMINATION
OF BACKGROUND VALUES

Notes
%ND = Percent non-detected samples
sd = standard deviation
k = kappa for tolerance limit (95% confidence/95% coverage)



APPENDIX C
STATISTICAL METHODOLOGY FOR DETERMINATION OF
STATISTICALLY SIGNIFICANT LEVELS

Notes
%ND = Percent non-detected samples
MK = Mann-Kendall Trend Test
<u>Alpha Levels</u>
Normality = 0.01
MK Trend = 0.01
Residuals = 0.01
Confidence Level= 0.01

