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1940103649-003

2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GMF GYPSUM STACK POND

COFFEEN POWER PLANT

COFFEEN, ILLINOIS

CCR UNIT 103

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2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT COFFEEN POWER PLANT GMF GYPSUM STACK POND

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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
A2	Quarter 1, 2023 Assessment Monitoring sampling event
A2R	Quarter 2, 2023 Assessment Monitoring sampling event
A2D	Quarter 3, 2023 Assessment Monitoring sampling event
A2DR	Quarter 4, 2023 Assessment Monitoring sampling event
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CMA	Corrective Measures Assessment
CPP	Coffeen Power Plant
GMF GSP	Gypsum Management Facility Gypsum Stack Pond
GWPS	groundwater protection standard
IEPA	Illinois Environmental Protection Agency
NA	not applicable
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 the Gypsum Management Facility Gypsum Stack Pond (GMF GSP) located at the Coffeen Power Plant (CPP) near Coffeen, Illinois.

Groundwater is being monitored at the GMF GSP in accordance with the Assessment Monitoring Program requirements specified in 40 C.F.R. § 257.95. Assessment monitoring was initiated at the GMF GSP on March 26, 2022.

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, the GMF GSP 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 the GMF GSP 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 the GMF GSP 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 the GMF GSP 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] The GMF GSP 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. 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] Background monitoring wells G200 and R201 were indicated as having insufficient water to sample during August 2023 and no groundwater samples were collected.
Groundwater elevations were not collected from the water level only location NE Riser during May, August, or November 2023 because of transducer malfunction. Groundwater elevations were also not collected from the water level only location SG-04 because the location could not be located during August 2023.

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
A2	February 14-16, 2023	June 22, 2023	September 20, 2023	None	NA
A2R	June 1 and 7-9, 2023	August 17, 2023	NA	NA	NA
A2D [6]	August 10 and 14, 2023	November 21, 2023	February 19, 2024	TBD	TBD
A2DR	November 14-15 and 17, 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: G200 and R201

[3] The following compliance wells were sampled for each event: G2006, G206D, G209, G212, G213, G215, G217, and G218

[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 wells G200 and R201 during the August 2023 sampling event.

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the Groundwater Monitoring Program during 2022. 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 alternate 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 alternate 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 alternate 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, GMF Gypsum Stack Pond, Coffeen Power Plant, Coffeen, Illinois. 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), 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), 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
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
G200	Background	UA	02/13/2023	2.91	623.03
G200	Background	UA	04/30/2023	4.51	621.42
G200	Background	UA	05/30/2023	5.89	620.04
G200	Background	UA	06/08/2023	6.44	619.49
G200	Background	UA	08/08/2023	9.21	616.73
G200	Background	UA	09/25/2023	10.61	615.33
G200	Background	UA	10/25/2023	11.51	614.43
G200	Background	UA	11/13/2023	11.88	614.06
G200	Background	UA	12/18/2023	11.48	614.46
G206	Compliance	UA	02/13/2023	9.20	623.62
G206	Compliance	UA	04/30/2023	10.27	622.54
G206	Compliance	UA	05/30/2023	11.17	621.64
G206	Compliance	UA	07/08/2023	12.13	620.69
G206	Compliance	UA	08/08/2023	13.89	618.93
G206	Compliance	UA	09/25/2023	14.74	618.08
G206	Compliance	UA	10/25/2023	15.71	617.11
G206	Compliance	UA	11/13/2023	16.16	616.66
G206	Compliance	UA	12/18/2023	15.85	616.97
G206D	Compliance	DA	02/13/2023	9.92	624.22
G206D	Compliance	DA	04/30/2023	30.53	603.60
G206D	Compliance	DA	05/30/2023	30.22	603.91
G206D	Compliance	DA	07/08/2023	30.10	604.04
G206D	Compliance	DA	08/08/2023	30.04	604.10
G206D	Compliance	DA	09/25/2023	30.08	604.06
G206D	Compliance	DA	10/25/2023	30.34	603.80
G206D	Compliance	DA	11/13/2023	30.40	603.74
G206D	Compliance	DA	12/18/2023	30.32	603.82
G209	Compliance	UA	02/13/2023	10.01	622.90
G209	Compliance	UA	04/30/2023	10.25	622.65
G209	Compliance	UA	05/30/2023	11.07	621.83
G209	Compliance	UA	07/08/2023	11.82	621.08
G209	Compliance	UA	08/08/2023	13.79	619.12
G209	Compliance	UA	09/25/2023	14.78	618.13
G209	Compliance	UA	10/25/2023	15.60	617.31
G209	Compliance	UA	11/13/2023	16.24	616.67
G209	Compliance	UA	12/18/2023	16.04	616.87
G212	Compliance	UA	02/13/2023	10.38	622.51
G212	Compliance	UA	04/30/2023	10.89	621.99
G212	Compliance	UA	05/30/2023	11.64	621.24
G212	Compliance	UA	06/08/2023	12.80	620.08
G212	Compliance	UA	07/08/2023	13.48	619.41
G212	Compliance	UA	08/08/2023	14.61	618.28
G212	Compliance	UA	09/25/2023	15.97	616.92
G212	Compliance	UA	10/25/2023	16.46	616.43
G212	Compliance	UA	11/13/2023	16.92	615.97
G212	Compliance	UA	12/18/2023	17.00	615.89

TABLE 1
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2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
G213	Compliance	UA	02/13/2023	10.83	621.98
G213	Compliance	UA	04/30/2023	11.04	621.76
G213	Compliance	UA	05/30/2023	11.96	620.84
G213	Compliance	UA	06/08/2023	12.80	620.00
G213	Compliance	UA	07/08/2023	13.50	619.31
G213	Compliance	UA	08/08/2023	15.05	617.76
G213	Compliance	UA	09/25/2023	15.90	616.91
G213	Compliance	UA	10/25/2023	16.81	616.00
G213	Compliance	UA	11/13/2023	17.41	615.40
G213	Compliance	UA	12/18/2023	17.34	615.47
G215	Compliance	UA	02/13/2023	14.38	618.68
G215	Compliance	UA	04/30/2023	14.03	619.02
G215	Compliance	UA	05/30/2023	14.76	618.29
G215	Compliance	UA	06/08/2023	15.46	617.59
G215	Compliance	UA	07/08/2023	16.06	616.99
G215	Compliance	UA	08/08/2023	17.22	615.84
G215	Compliance	UA	09/25/2023	18.06	614.99
G215	Compliance	UA	10/25/2023	18.41	614.65
G215	Compliance	UA	11/13/2023	19.03	614.03
G215	Compliance	UA	12/18/2023	18.75	614.31
G217	Compliance	UA	02/13/2023	14.72	618.38
G217	Compliance	UA	08/08/2023	18.29	614.81
G217	Compliance	UA	10/25/2023	19.51	613.59
G217	Compliance	UA	11/13/2023	19.68	613.42
G217	Compliance	UA	12/18/2023	19.33	613.77
G218	Compliance	UA	02/13/2023	13.71	619.40
G218	Compliance	UA	04/30/2023	12.98	620.12
G218	Compliance	UA	05/30/2023	13.72	619.38
G218	Compliance	UA	06/08/2023	15.11	618.00
G218	Compliance	UA	07/08/2023	15.80	617.31
G218	Compliance	UA	08/08/2023	16.98	616.13
G218	Compliance	UA	09/25/2023	17.95	615.16
G218	Compliance	UA	10/25/2023	18.48	614.63
G218	Compliance	UA	11/13/2023	18.67	614.44
G218	Compliance	UA	12/18/2023	18.38	614.73
R201	Background	UA	02/14/2023	2.80	623.54
R201	Background	UA	04/30/2023	3.95	622.38
R201	Background	UA	05/30/2023	5.31	621.02
R201	Background	UA	06/08/2023	6.13	620.21
R201	Background	UA	07/08/2023	6.75	619.59
R201	Background	UA	08/08/2023	11.61	614.73
R201	Background	UA	09/25/2023	10.12	616.22
R201	Background	UA	10/24/2023	11.20	615.14
R201	Background	UA	11/13/2023	11.73	614.61
R201	Background	UA	12/18/2023	11.37	614.97
NE Riser	Water Level	S	02/14/2023	37.96	588.17

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GROUNDWATER ELEVATION DATA
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
SG-04	Water Level	SW	02/13/2023	6.27	593.25
SG-04	Water Level	SW	05/30/2023	6.41	593.11

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

DA = deep aquifer

S = source water

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
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G200	UA	Background	02/16/2023	A2	Boron, total	mg/L	0.0290	NA	NA
G200	UA	Background	06/07/2023	A2R	Boron, total	mg/L	0.0110	NA	NA
G200	UA	Background	11/14/2023	A2DR	Boron, total	mg/L	0.01 J	NA	NA
G200	UA	Background	02/16/2023	A2	Calcium, total	mg/L	120	NA	NA
G200	UA	Background	06/07/2023	A2R	Calcium, total	mg/L	110	NA	NA
G200	UA	Background	11/14/2023	A2DR	Calcium, total	mg/L	80.3	NA	NA
G200	UA	Background	02/16/2023	A2	Chloride, total	mg/L	50.0	NA	NA
G200	UA	Background	06/07/2023	A2R	Chloride, total	mg/L	65.0	NA	NA
G200	UA	Background	11/14/2023	A2DR	Chloride, total	mg/L	43.0	NA	NA
G200	UA	Background	02/16/2023	A2	Fluoride, total	mg/L	0.04 U	NA	NA
G200	UA	Background	06/07/2023	A2R	Fluoride, total	mg/L	0.216 J	NA	NA
G200	UA	Background	11/14/2023	A2DR	Fluoride, total	mg/L	0.380	NA	NA
G200	UA	Background	02/16/2023	A2	pH (field)	SU	6.7	NA	NA
G200	UA	Background	06/07/2023	A2R	pH (field)	SU	7.1	NA	NA
G200	UA	Background	11/14/2023	A2DR	pH (field)	SU	7.2	NA	NA
G200	UA	Background	02/16/2023	A2	Sulfate, total	mg/L	100	NA	NA
G200	UA	Background	06/07/2023	A2R	Sulfate, total	mg/L	110	NA	NA
G200	UA	Background	11/14/2023	A2DR	Sulfate, total	mg/L	106	NA	NA
G200	UA	Background	02/16/2023	A2	Total Dissolved Solids	mg/L	440	NA	NA
G200	UA	Background	06/07/2023	A2R	Total Dissolved Solids	mg/L	630	NA	NA
G200	UA	Background	11/14/2023	A2DR	Total Dissolved Solids	mg/L	455	NA	NA
R201	UA	Background	02/16/2023	A2	Boron, total	mg/L	0.0190	NA	NA
R201	UA	Background	06/07/2023	A2R	Boron, total	mg/L	0.01 U	NA	NA
R201	UA	Background	11/14/2023	A2DR	Boron, total	mg/L	0.0092 U	NA	NA
R201	UA	Background	02/16/2023	A2	Calcium, total	mg/L	97.0	NA	NA
R201	UA	Background	06/07/2023	A2R	Calcium, total	mg/L	120	NA	NA
R201	UA	Background	11/14/2023	A2DR	Calcium, total	mg/L	103	NA	NA
R201	UA	Background	02/16/2023	A2	Chloride, total	mg/L	51.0	NA	NA
R201	UA	Background	06/07/2023	A2R	Chloride, total	mg/L	89.0	NA	NA
R201	UA	Background	11/14/2023	A2DR	Chloride, total	mg/L	60.0 J	NA	NA
R201	UA	Background	02/16/2023	A2	Fluoride, total	mg/L	0.359	NA	NA
R201	UA	Background	06/07/2023	A2R	Fluoride, total	mg/L	0.19 J	NA	NA
R201	UA	Background	11/14/2023	A2DR	Fluoride, total	mg/L	0.410	NA	NA
R201	UA	Background	02/16/2023	A2	pH (field)	SU	7.1	NA	NA
R201	UA	Background	06/07/2023	A2R	pH (field)	SU	7.3	NA	NA
R201	UA	Background	11/14/2023	A2DR	pH (field)	SU	7.0	NA	NA
R201	UA	Background	02/16/2023	A2	Sulfate, total	mg/L	160	NA	NA
R201	UA	Background	06/07/2023	A2R	Sulfate, total	mg/L	220	NA	NA
R201	UA	Background	11/14/2023	A2DR	Sulfate, total	mg/L	167 J	NA	NA
R201	UA	Background	02/16/2023	A2	Total Dissolved Solids	mg/L	750	NA	NA
R201	UA	Background	06/07/2023	A2R	Total Dissolved Solids	mg/L	930	NA	NA
R201	UA	Background	11/14/2023	A2DR	Total Dissolved Solids	mg/L	705	NA	NA
G206	UA	Compliance	02/16/2023	A2	Boron, total	mg/L	0.0098 J	0.390	No Exceedance
G206	UA	Compliance	06/09/2023	A2R	Boron, total	mg/L	0.0120 J+	0.390	No Exceedance
G206	UA	Compliance	08/14/2023	A2D	Boron, total	mg/L	0.0092 U	0.390	TBD
G206	UA	Compliance	11/15/2023	A2DR	Boron, total	mg/L	0.0092 U	0.390	TBD

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G206	UA	Compliance	02/16/2023	A2	Calcium, total	mg/L	87.0	146	No Exceedance
G206	UA	Compliance	06/09/2023	A2R	Calcium, total	mg/L	86.0	146	No Exceedance
G206	UA	Compliance	08/14/2023	A2D	Calcium, total	mg/L	86.8	146	TBD
G206	UA	Compliance	11/15/2023	A2DR	Calcium, total	mg/L	83.3	146	TBD
G206	UA	Compliance	02/16/2023	A2	Chloride, total	mg/L	23.0	96.0	No Exceedance
G206	UA	Compliance	06/09/2023	A2R	Chloride, total	mg/L	22.0	96.0	No Exceedance
G206	UA	Compliance	08/14/2023	A2D	Chloride, total	mg/L	23.0	96.0	TBD
G206	UA	Compliance	11/15/2023	A2DR	Chloride, total	mg/L	23.0	96.0	TBD
G206	UA	Compliance	02/16/2023	A2	Fluoride, total	mg/L	0.382	0.502	No Exceedance
G206	UA	Compliance	06/09/2023	A2R	Fluoride, total	mg/L	0.430	0.502	No Exceedance
G206	UA	Compliance	08/14/2023	A2D	Fluoride, total	mg/L	0.430 J+	0.502	TBD
G206	UA	Compliance	11/15/2023	A2DR	Fluoride, total	mg/L	0.480	0.502	TBD
G206	UA	Compliance	02/16/2023	A2	pH (field)	SU	7.4	6.9/7.3	Exceedance Not Confirmed
G206	UA	Compliance	06/09/2023	A2R	pH (field)	SU	7.1	6.9/7.3	No Exceedance
G206	UA	Compliance	08/14/2023	A2D	pH (field)	SU	6.9	6.9/7.3	TBD
G206	UA	Compliance	11/15/2023	A2DR	pH (field)	SU	7.5	6.9/7.3	TBD
G206	UA	Compliance	02/16/2023	A2	Sulfate, total	mg/L	140	300	No Exceedance
G206	UA	Compliance	06/09/2023	A2R	Sulfate, total	mg/L	140	300	No Exceedance
G206	UA	Compliance	08/14/2023	A2D	Sulfate, total	mg/L	138	300	TBD
G206	UA	Compliance	11/15/2023	A2DR	Sulfate, total	mg/L	132	300	TBD
G206	UA	Compliance	02/16/2023	A2	Total Dissolved Solids	mg/L	460	949	No Exceedance
G206	UA	Compliance	06/09/2023	A2R	Total Dissolved Solids	mg/L	600	949	No Exceedance
G206	UA	Compliance	08/14/2023	A2D	Total Dissolved Solids	mg/L	548	949	TBD
G206	UA	Compliance	11/15/2023	A2DR	Total Dissolved Solids	mg/L	485	949	TBD
G206D	DA	Compliance	02/16/2023	A2	Boron, total	mg/L	0.110	0.390	No Exceedance
G206D	DA	Compliance	06/09/2023	A2R	Boron, total	mg/L	0.120 J+	0.390	No Exceedance
G206D	DA	Compliance	08/14/2023	A2D	Boron, total	mg/L	0.118 J+	0.390	TBD
G206D	DA	Compliance	11/17/2023	A2DR	Boron, total	mg/L	0.123	0.390	TBD
G206D	DA	Compliance	02/16/2023	A2	Calcium, total	mg/L	89.0	146	No Exceedance
G206D	DA	Compliance	06/09/2023	A2R	Calcium, total	mg/L	86.0	146	No Exceedance
G206D	DA	Compliance	08/14/2023	A2D	Calcium, total	mg/L	84.9	146	TBD
G206D	DA	Compliance	11/17/2023	A2DR	Calcium, total	mg/L	80.3	146	TBD
G206D	DA	Compliance	02/16/2023	A2	Chloride, total	mg/L	29.0	96.0	No Exceedance
G206D	DA	Compliance	06/09/2023	A2R	Chloride, total	mg/L	25.0	96.0	No Exceedance
G206D	DA	Compliance	08/14/2023	A2D	Chloride, total	mg/L	23.0	96.0	TBD
G206D	DA	Compliance	11/17/2023	A2DR	Chloride, total	mg/L	22.0	96.0	TBD
G206D	DA	Compliance	02/16/2023	A2	Fluoride, total	mg/L	0.784	0.502	Confirmed
G206D	DA	Compliance	06/09/2023	A2R	Fluoride, total	mg/L	0.873	0.502	Confirmed
G206D	DA	Compliance	08/14/2023	A2D	Fluoride, total	mg/L	1.00	0.502	TBD
G206D	DA	Compliance	11/17/2023	A2DR	Fluoride, total	mg/L	1.09	0.502	TBD
G206D	DA	Compliance	02/16/2023	A2	pH (field)	SU	7.5	6.9/7.3	Exceedance Not Confirmed
G206D	DA	Compliance	06/09/2023	A2R	pH (field)	SU	7.2	6.9/7.3	No Exceedance
G206D	DA	Compliance	08/14/2023	A2D	pH (field)	SU	6.9	6.9/7.3	TBD
G206D	DA	Compliance	11/17/2023	A2DR	pH (field)	SU	7.1	6.9/7.3	TBD
G206D	DA	Compliance	02/16/2023	A2	Sulfate, total	mg/L	160	300	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
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G206D	DA	Compliance	06/09/2023	A2R	Sulfate, total	mg/L	160	300	No Exceedance
G206D	DA	Compliance	08/14/2023	A2D	Sulfate, total	mg/L	155	300	TBD
G206D	DA	Compliance	11/17/2023	A2DR	Sulfate, total	mg/L	153	300	TBD
G206D	DA	Compliance	02/16/2023	A2	Total Dissolved Solids	mg/L	670	949	No Exceedance
G206D	DA	Compliance	06/09/2023	A2R	Total Dissolved Solids	mg/L	680	949	No Exceedance
G206D	DA	Compliance	08/14/2023	A2D	Total Dissolved Solids	mg/L	685	949	TBD
G206D	DA	Compliance	11/17/2023	A2DR	Total Dissolved Solids	mg/L	755	949	TBD
G209	UA	Compliance	02/15/2023	A2	Boron, total	mg/L	0.0094 J	0.390	No Exceedance
G209	UA	Compliance	06/09/2023	A2R	Boron, total	mg/L	0.0110 J+	0.390	No Exceedance
G209	UA	Compliance	08/14/2023	A2D	Boron, total	mg/L	0.0092 U	0.390	TBD
G209	UA	Compliance	11/16/2023	A2DR	Boron, total	mg/L	0.014 J	0.390	TBD
G209	UA	Compliance	02/15/2023	A2	Calcium, total	mg/L	150	146	Exceedance Not Confirmed
G209	UA	Compliance	06/09/2023	A2R	Calcium, total	mg/L	140	146	No Exceedance
G209	UA	Compliance	08/14/2023	A2D	Calcium, total	mg/L	149	146	TBD
G209	UA	Compliance	11/16/2023	A2DR	Calcium, total	mg/L	143	146	TBD
G209	UA	Compliance	02/15/2023	A2	Chloride, total	mg/L	56.0	96.0	No Exceedance
G209	UA	Compliance	06/09/2023	A2R	Chloride, total	mg/L	61.0	96.0	No Exceedance
G209	UA	Compliance	08/14/2023	A2D	Chloride, total	mg/L	53.0	96.0	TBD
G209	UA	Compliance	11/16/2023	A2DR	Chloride, total	mg/L	52.0	96.0	TBD
G209	UA	Compliance	02/15/2023	A2	Fluoride, total	mg/L	0.371	0.502	No Exceedance
G209	UA	Compliance	06/09/2023	A2R	Fluoride, total	mg/L	0.396	0.502	No Exceedance
G209	UA	Compliance	08/14/2023	A2D	Fluoride, total	mg/L	0.460 J+	0.502	TBD
G209	UA	Compliance	11/16/2023	A2DR	Fluoride, total	mg/L	0.520	0.502	TBD
G209	UA	Compliance	02/15/2023	A2	pH (field)	SU	7.3	6.9/7.3	No Exceedance
G209	UA	Compliance	06/09/2023	A2R	pH (field)	SU	7.0	6.9/7.3	No Exceedance
G209	UA	Compliance	08/14/2023	A2D	pH (field)	SU	6.6	6.9/7.3	TBD
G209	UA	Compliance	11/16/2023	A2DR	pH (field)	SU	7.0	6.9/7.3	TBD
G209	UA	Compliance	02/15/2023	A2	Sulfate, total	mg/L	230	300	No Exceedance
G209	UA	Compliance	06/09/2023	A2R	Sulfate, total	mg/L	230	300	No Exceedance
G209	UA	Compliance	08/14/2023	A2D	Sulfate, total	mg/L	243	300	TBD
G209	UA	Compliance	11/16/2023	A2DR	Sulfate, total	mg/L	255	300	TBD
G209	UA	Compliance	02/15/2023	A2	Total Dissolved Solids	mg/L	930	949	No Exceedance
G209	UA	Compliance	06/09/2023	A2R	Total Dissolved Solids	mg/L	860	949	No Exceedance
G209	UA	Compliance	08/14/2023	A2D	Total Dissolved Solids	mg/L	878	949	TBD
G209	UA	Compliance	11/16/2023	A2DR	Total Dissolved Solids	mg/L	826	949	TBD
G212	UA	Compliance	02/14/2023	A2	Boron, total	mg/L	0.0071 U	0.390	No Exceedance
G212	UA	Compliance	06/07/2023	A2R	Boron, total	mg/L	0.01 U	0.390	No Exceedance
G212	UA	Compliance	08/10/2023	A2D	Boron, total	mg/L	0.0092 U	0.390	TBD
G212	UA	Compliance	11/16/2023	A2DR	Boron, total	mg/L	0.0125 U	0.390	TBD
G212	UA	Compliance	02/14/2023	A2	Calcium, total	mg/L	60.0	146	No Exceedance
G212	UA	Compliance	06/07/2023	A2R	Calcium, total	mg/L	56.0	146	No Exceedance
G212	UA	Compliance	08/10/2023	A2D	Calcium, total	mg/L	53.6	146	TBD
G212	UA	Compliance	11/16/2023	A2DR	Calcium, total	mg/L	54.6	146	TBD
G212	UA	Compliance	02/14/2023	A2	Chloride, total	mg/L	45.0	96.0	No Exceedance
G212	UA	Compliance	06/07/2023	A2R	Chloride, total	mg/L	41.0	96.0	No Exceedance
G212	UA	Compliance	08/10/2023	A2D	Chloride, total	mg/L	46.0	96.0	TBD

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G212	UA	Compliance	11/16/2023	A2DR	Chloride, total	mg/L	47.0	96.0	TBD
G212	UA	Compliance	02/14/2023	A2	Fluoride, total	mg/L	0.254	0.502	No Exceedance
G212	UA	Compliance	06/07/2023	A2R	Fluoride, total	mg/L	0.222 J	0.502	No Exceedance
G212	UA	Compliance	08/10/2023	A2D	Fluoride, total	mg/L	0.350 J+	0.502	TBD
G212	UA	Compliance	11/16/2023	A2DR	Fluoride, total	mg/L	0.340	0.502	TBD
G212	UA	Compliance	02/14/2023	A2	pH (field)	SU	7.5	6.9/7.3	Exceedance Not Confirmed
G212	UA	Compliance	06/07/2023	A2R	pH (field)	SU	7.2	6.9/7.3	No Exceedance
G212	UA	Compliance	08/10/2023	A2D	pH (field)	SU	7.2	6.9/7.3	TBD
G212	UA	Compliance	11/16/2023	A2DR	pH (field)	SU	7.2	6.9/7.3	TBD
G212	UA	Compliance	02/14/2023	A2	Sulfate, total	mg/L	54.0	300	No Exceedance
G212	UA	Compliance	06/07/2023	A2R	Sulfate, total	mg/L	54.0	300	No Exceedance
G212	UA	Compliance	08/10/2023	A2D	Sulfate, total	mg/L	65.0 J+	300	TBD
G212	UA	Compliance	11/16/2023	A2DR	Sulfate, total	mg/L	63.0	300	TBD
G212	UA	Compliance	02/14/2023	A2	Total Dissolved Solids	mg/L	520	949	No Exceedance
G212	UA	Compliance	06/07/2023	A2R	Total Dissolved Solids	mg/L	480 J	949	No Exceedance
G212	UA	Compliance	08/10/2023	A2D	Total Dissolved Solids	mg/L	412	949	TBD
G212	UA	Compliance	11/16/2023	A2DR	Total Dissolved Solids	mg/L	434	949	TBD
G213	UA	Compliance	02/15/2023	A2	Boron, total	mg/L	0.0071 U	0.390	No Exceedance
G213	UA	Compliance	06/07/2023	A2R	Boron, total	mg/L	0.01 U	0.390	No Exceedance
G213	UA	Compliance	08/10/2023	A2D	Boron, total	mg/L	0.0092 U	0.390	TBD
G213	UA	Compliance	11/16/2023	A2DR	Boron, total	mg/L	0.0125 U	0.390	TBD
G213	UA	Compliance	02/15/2023	A2	Calcium, total	mg/L	68.0	146	No Exceedance
G213	UA	Compliance	06/07/2023	A2R	Calcium, total	mg/L	65.0	146	No Exceedance
G213	UA	Compliance	08/10/2023	A2D	Calcium, total	mg/L	65.6	146	TBD
G213	UA	Compliance	11/16/2023	A2DR	Calcium, total	mg/L	64.7	146	TBD
G213	UA	Compliance	02/15/2023	A2	Chloride, total	mg/L	39.0	96.0	No Exceedance
G213	UA	Compliance	06/07/2023	A2R	Chloride, total	mg/L	45.0	96.0	No Exceedance
G213	UA	Compliance	08/10/2023	A2D	Chloride, total	mg/L	46.0	96.0	TBD
G213	UA	Compliance	11/16/2023	A2DR	Chloride, total	mg/L	52.0	96.0	TBD
G213	UA	Compliance	02/15/2023	A2	Fluoride, total	mg/L	0.309	0.502	No Exceedance
G213	UA	Compliance	06/07/2023	A2R	Fluoride, total	mg/L	0.24 J	0.502	No Exceedance
G213	UA	Compliance	08/10/2023	A2D	Fluoride, total	mg/L	0.340 J+	0.502	TBD
G213	UA	Compliance	11/16/2023	A2DR	Fluoride, total	mg/L	0.360	0.502	TBD
G213	UA	Compliance	02/15/2023	A2	pH (field)	SU	7.5	6.9/7.3	Exceedance Not Confirmed
G213	UA	Compliance	06/07/2023	A2R	pH (field)	SU	7.2	6.9/7.3	No Exceedance
G213	UA	Compliance	08/10/2023	A2D	pH (field)	SU	7.2	6.9/7.3	TBD
G213	UA	Compliance	11/16/2023	A2DR	pH (field)	SU	7.1	6.9/7.3	TBD
G213	UA	Compliance	02/15/2023	A2	Sulfate, total	mg/L	54.0	300	No Exceedance
G213	UA	Compliance	06/07/2023	A2R	Sulfate, total	mg/L	59.0	300	No Exceedance
G213	UA	Compliance	08/10/2023	A2D	Sulfate, total	mg/L	68.0 J+	300	TBD
G213	UA	Compliance	11/16/2023	A2DR	Sulfate, total	mg/L	79.0	300	TBD
G213	UA	Compliance	02/15/2023	A2	Total Dissolved Solids	mg/L	510	949	No Exceedance
G213	UA	Compliance	06/07/2023	A2R	Total Dissolved Solids	mg/L	500	949	No Exceedance
G213	UA	Compliance	08/10/2023	A2D	Total Dissolved Solids	mg/L	402	949	TBD
G213	UA	Compliance	11/16/2023	A2DR	Total Dissolved Solids	mg/L	420	949	TBD

TABLE 2
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COFFEEN POWER PLANT
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G215	UA	Compliance	02/15/2023	A2	Boron, total	mg/L	0.770	0.390	Confirmed
G215	UA	Compliance	06/01/2023	A2R	Boron, total	mg/L	0.840	0.390	Confirmed
G215	UA	Compliance	08/10/2023	A2D	Boron, total	mg/L	0.712 J+	0.390	TBD
G215	UA	Compliance	11/16/2023	A2DR	Boron, total	mg/L	0.727	0.390	TBD
G215	UA	Compliance	02/15/2023	A2	Calcium, total	mg/L	200	146	Confirmed
G215	UA	Compliance	06/01/2023	A2R	Calcium, total	mg/L	180	146	Confirmed
G215	UA	Compliance	08/10/2023	A2D	Calcium, total	mg/L	171	146	TBD
G215	UA	Compliance	11/16/2023	A2DR	Calcium, total	mg/L	180	146	TBD
G215	UA	Compliance	02/15/2023	A2	Chloride, total	mg/L	130	96.0	Confirmed
G215	UA	Compliance	06/01/2023	A2R	Chloride, total	mg/L	130	96.0	Confirmed
G215	UA	Compliance	08/10/2023	A2D	Chloride, total	mg/L	127	96.0	TBD
G215	UA	Compliance	11/16/2023	A2DR	Chloride, total	mg/L	138	96.0	TBD
G215	UA	Compliance	02/15/2023	A2	Fluoride, total	mg/L	0.231 J	0.502	No Exceedance
G215	UA	Compliance	06/01/2023	A2R	Fluoride, total	mg/L	0.209 J	0.502	No Exceedance
G215	UA	Compliance	08/10/2023	A2D	Fluoride, total	mg/L	0.330 J+	0.502	TBD
G215	UA	Compliance	11/16/2023	A2DR	Fluoride, total	mg/L	0.340	0.502	TBD
G215	UA	Compliance	02/15/2023	A2	pH (field)	SU	7.1	6.9/7.3	No Exceedance
G215	UA	Compliance	06/01/2023	A2R	pH (field)	SU	7.0	6.9/7.3	No Exceedance
G215	UA	Compliance	08/10/2023	A2D	pH (field)	SU	7.0	6.9/7.3	TBD
G215	UA	Compliance	11/16/2023	A2DR	pH (field)	SU	6.9	6.9/7.3	TBD
G215	UA	Compliance	02/15/2023	A2	Sulfate, total	mg/L	560	300	Confirmed
G215	UA	Compliance	06/01/2023	A2R	Sulfate, total	mg/L	540	300	Confirmed
G215	UA	Compliance	08/10/2023	A2D	Sulfate, total	mg/L	481	300	TBD
G215	UA	Compliance	11/16/2023	A2DR	Sulfate, total	mg/L	512	300	TBD
G215	UA	Compliance	02/15/2023	A2	Total Dissolved Solids	mg/L	1,500	949	Confirmed
G215	UA	Compliance	06/01/2023	A2R	Total Dissolved Solids	mg/L	1,200	949	Confirmed
G215	UA	Compliance	08/10/2023	A2D	Total Dissolved Solids	mg/L	1,270	949	TBD
G215	UA	Compliance	11/16/2023	A2DR	Total Dissolved Solids	mg/L	1,250	949	TBD
G217	UA	Compliance	02/15/2023	A2	Boron, total	mg/L	0.0150	0.390	No Exceedance
G217	UA	Compliance	06/08/2023	A2R	Boron, total	mg/L	0.0160	0.390	No Exceedance
G217	UA	Compliance	08/10/2023	A2D	Boron, total	mg/L	0.02 UJ	0.390	TBD
G217	UA	Compliance	11/16/2023	A2DR	Boron, total	mg/L	0.015 J	0.390	TBD
G217	UA	Compliance	02/15/2023	A2	Calcium, total	mg/L	160	146	Confirmed
G217	UA	Compliance	06/08/2023	A2R	Calcium, total	mg/L	180	146	Confirmed
G217	UA	Compliance	08/10/2023	A2D	Calcium, total	mg/L	175	146	TBD
G217	UA	Compliance	11/16/2023	A2DR	Calcium, total	mg/L	177	146	TBD
G217	UA	Compliance	02/15/2023	A2	Chloride, total	mg/L	93.0	96.0	No Exceedance
G217	UA	Compliance	06/08/2023	A2R	Chloride, total	mg/L	130	96.0	Exceedance Not Confirmed
G217	UA	Compliance	08/10/2023	A2D	Chloride, total	mg/L	109	96.0	TBD
G217	UA	Compliance	11/16/2023	A2DR	Chloride, total	mg/L	123	96.0	TBD
G217	UA	Compliance	02/15/2023	A2	Fluoride, total	mg/L	0.300	0.502	No Exceedance
G217	UA	Compliance	06/08/2023	A2R	Fluoride, total	mg/L	0.296	0.502	No Exceedance
G217	UA	Compliance	08/10/2023	A2D	Fluoride, total	mg/L	0.380 J+	0.502	TBD
G217	UA	Compliance	11/16/2023	A2DR	Fluoride, total	mg/L	0.420	0.502	TBD
G217	UA	Compliance	02/15/2023	A2	pH (field)	SU	7.2	6.9/7.3	No Exceedance

TABLE 2
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COFFEEN POWER PLANT
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
G217	UA	Compliance	06/08/2023	A2R	pH (field)	SU	6.7	6.9/7.3	Exceedance Not Confirmed
G217	UA	Compliance	08/10/2023	A2D	pH (field)	SU	6.9	6.9/7.3	TBD
G217	UA	Compliance	11/16/2023	A2DR	pH (field)	SU	6.9	6.9/7.3	TBD
G217	UA	Compliance	02/15/2023	A2	Sulfate, total	mg/L	310	300	Confirmed
G217	UA	Compliance	06/08/2023	A2R	Sulfate, total	mg/L	370	300	Confirmed
G217	UA	Compliance	08/10/2023	A2D	Sulfate, total	mg/L	394	300	TBD
G217	UA	Compliance	11/16/2023	A2DR	Sulfate, total	mg/L	427	300	TBD
G217	UA	Compliance	02/15/2023	A2	Total Dissolved Solids	mg/L	1,100	949	Confirmed
G217	UA	Compliance	06/08/2023	A2R	Total Dissolved Solids	mg/L	1,100	949	Confirmed
G217	UA	Compliance	08/10/2023	A2D	Total Dissolved Solids	mg/L	1,100	949	TBD
G217	UA	Compliance	11/16/2023	A2DR	Total Dissolved Solids	mg/L	1,100	949	TBD
G218	UA	Compliance	02/16/2023	A2	Boron, total	mg/L	0.0100	0.390	No Exceedance
G218	UA	Compliance	06/01/2023	A2R	Boron, total	mg/L	0.0140	0.390	No Exceedance
G218	UA	Compliance	08/10/2023	A2D	Boron, total	mg/L	0.02 UJ	0.390	TBD
G218	UA	Compliance	11/16/2023	A2DR	Boron, total	mg/L	0.0237	0.390	TBD
G218	UA	Compliance	02/16/2023	A2	Calcium, total	mg/L	160	146	Confirmed
G218	UA	Compliance	06/01/2023	A2R	Calcium, total	mg/L	170	146	Confirmed
G218	UA	Compliance	08/10/2023	A2D	Calcium, total	mg/L	179	146	TBD
G218	UA	Compliance	11/16/2023	A2DR	Calcium, total	mg/L	181	146	TBD
G218	UA	Compliance	02/16/2023	A2	Chloride, total	mg/L	100	96.0	Confirmed
G218	UA	Compliance	06/01/2023	A2R	Chloride, total	mg/L	160	96.0	Confirmed
G218	UA	Compliance	08/10/2023	A2D	Chloride, total	mg/L	116	96.0	TBD
G218	UA	Compliance	11/16/2023	A2DR	Chloride, total	mg/L	125	96.0	TBD
G218	UA	Compliance	02/16/2023	A2	Fluoride, total	mg/L	0.04 U	0.502	No Exceedance
G218	UA	Compliance	06/01/2023	A2R	Fluoride, total	mg/L	0.255	0.502	No Exceedance
G218	UA	Compliance	08/10/2023	A2D	Fluoride, total	mg/L	0.320 J+	0.502	TBD
G218	UA	Compliance	11/16/2023	A2DR	Fluoride, total	mg/L	0.350	0.502	TBD
G218	UA	Compliance	02/16/2023	A2	pH (field)	SU	7.1	6.9/7.3	No Exceedance
G218	UA	Compliance	06/01/2023	A2R	pH (field)	SU	7.2	6.9/7.3	No Exceedance
G218	UA	Compliance	08/10/2023	A2D	pH (field)	SU	6.9	6.9/7.3	TBD
G218	UA	Compliance	11/16/2023	A2DR	pH (field)	SU	6.8	6.9/7.3	TBD
G218	UA	Compliance	02/16/2023	A2	Sulfate, total	mg/L	300	300	No Exceedance
G218	UA	Compliance	06/01/2023	A2R	Sulfate, total	mg/L	370	300	Exceedance Not Confirmed
G218	UA	Compliance	08/10/2023	A2D	Sulfate, total	mg/L	424	300	TBD
G218	UA	Compliance	11/16/2023	A2DR	Sulfate, total	mg/L	433	300	TBD
G218	UA	Compliance	02/16/2023	A2	Total Dissolved Solids	mg/L	920	949	No Exceedance
G218	UA	Compliance	06/01/2023	A2R	Total Dissolved Solids	mg/L	1,000	949	Exceedance Not Confirmed
G218	UA	Compliance	08/10/2023	A2D	Total Dissolved Solids	mg/L	1,140	949	TBD
G218	UA	Compliance	11/16/2023	A2DR	Total Dissolved Solids	mg/L	1,140	949	TBD

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
GMF GYPSUM STACK POND
COFFEEN, IL

Notes:
HSU = hydrostratigraphic unit:

DA = Deep Aquifer

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.
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

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TABLE 3
ANALYTICAL RESULTS - APPENDIX IV PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
GMF GYPSUM STACK POND
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)
G200	B	02/16/2023	A2	0.00043 U	0.00810	0.160	0.00059 U	0.00074 U	0.0120	0.00760	0.04 U	0.0100	0.012 J	0.00014 U	0.00120	1.83	0.00160	0.00038 U
G200	B	06/07/2023	A2R	0.0011 J	0.00850	0.150	0.00083 J	0.00074 U	0.0120	0.00730	0.216 J	0.0160	0.013 J	0.0002 U	0.00079 J	4.48	0.00290	0.00038 U
R201	B	02/16/2023	A2	0.00043 U	0.00360	0.0760	0.00059 U	0.00074 U	0.0028 U	0.00084 J	0.359	0.00096 J	0.005 U	0.00014 U	0.00074 U	1.46	0.00074 U	0.00038 U
R201	B	06/07/2023	A2R	0.00043 U	0.00390	0.0780	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.19 J	0.00058 J	0.005 U	0.0002 U	0.00074 U	1.50	0.00074 U	0.00038 U
G206	C	02/16/2023	A2	0.00043 U	0.00069 U	0.0570	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.382	0.00022 U	0.005 U	0.00014 U	0.00082 J	0.499	0.00086 J	0.00038 U
G206	C	06/09/2023	A2R	0.00043 U	0.00260	0.0500	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.430	0.00022 U	0.005 U	0.00014 U	0.00074 U	0.227	0.00074 U	0.00038 U
G206	C	08/14/2023	A2D	0.0008 U	0.00150	0.0581	0.0002 U	0.0002 U	0.0007 U	0.0002 J	0.430 J+	0.0006 U	0.0026 J	0.00009 U	0.0006 U	0.645	0.0006 U	0.001 U
G206D	C	02/16/2023	A2	0.00043 U	0.0150	0.120	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.784	0.00022 U	0.005 U	0.00014 U	0.0190	0.971	0.00074 U	0.00038 U
G206D	C	06/09/2023	ADD	0.00043 U	--	--	0.00059 U	0.00074 U	0.0028 U	0.00048 U	--	--	0.005 U	0.00014 U	--	--	--	0.00038 U
G206D	C	06/09/2023	A2R	--	0.0160	0.170	--	--	--	--	0.873	0.00034 J	--	--	0.0160	0.701	0.00074 U	--
G206D	C	08/14/2023	A2D	0.0008 U	0.0149	0.200	0.0002 U	0.0002 U	0.0008 J	0.0002 J	1.00	0.0006 U	0.0022 J	0.00009 U	0.0143	0.870	0.0006 U	0.001 U
G209	C	02/15/2023	A2	0.00043 U	0.00140	0.0570	0.00059 U	0.00074 U	0.0028 U	0.0007 J	0.371	0.00022 U	0.0053 J	0.00014 U	0.00330	1.03	0.00074 U	0.00038 U
G209	C	06/09/2023	A2R	0.00043 U	0.00290	0.0700	0.00059 U	0.00074 U	0.0028 U	0.001 J	0.396	0.00022 U	0.005 U	0.00014 U	0.00380	0.292	0.00074 U	0.00038 U
G209	C	08/14/2023	A2D	0.0008 U	0.00140	0.0685	0.0002 U	0.0002 U	0.0007 J	0.0004 J	0.460 J+	0.0006 U	0.00570	0.00009 U	0.00260	0.530	0.0006 U	0.001 U
G212	C	02/14/2023	A2	0.00057 J	0.00069 U	0.0510	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.254	0.00022 U	0.005 U	0.00014 U	0.00074 U	0.202	0.00140	0.00038 U
G212	C	06/07/2023	A2R	0.00043 U	0.00069 U	0.0510	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.222 J	0.00022 U	0.005 U	0.0002 U	0.00074 U	0.194	0.00082 J	0.00038 U
G212	C	08/10/2023	A2D	0.0004 U	0.0004 U	0.0529	0.0002 U	0.0002 U	0.001 J	0.0004 U	0.350 J+	0.0006 U	0.0015 J	0.00006 U	0.0007 J	0.570	0.0008 J	0.001 U
G213	C	02/15/2023	A2	0.00043 U	0.00069 U	0.0550	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.309	0.00022 U	0.005 U	0.00014 U	0.00074 U	2.08	0.00140	0.00038 U
G213	C	06/07/2023	ADD	0.00043 U	--	--	0.00059 U	0.00074 U	0.0028 U	0.00048 U	--	--	0.005 U	0.0002 U	--	--	--	0.00038 U
G213	C	06/07/2023	A2R	--	0.00069 U	0.0540	--	--	--	--	0.24 J	0.00024 J	--	--	0.00074 U	0.399	0.00110	--
G213	C	08/10/2023	A2D	0.0006 U	0.0004 U	0.0541	0.0002 U	0.0002 U	0.00160	0.0003 J	0.340 J+	0.0006 U	0.00340	0.00006 U	0.0006 U	0.568	0.0006 U	0.001 U
G215	C	02/15/2023	A2	0.00043 U	0.00260	0.0410	0.00059 U	0.00074 U	0.0028 U	0.0005 J	0.231 J	0.00022 U	0.0089 J	0.00014 U	0.00074 U	0.463	0.00074 U	0.00038 U
G215	C	06/01/2023	A2R	0.00043 U	0.0130	0.0450	0.00059 U	0.00074 U	0.0028 U	0.00057 J	0.209 J	0.00022 J	0.0082 J	0.00014 U	0.00074 U	0.881	0.00074 U	0.00038 U
G215	C	08/10/2023	A2D	0.0006 U	0.00240	0.0402	0.0002 U	0.0002 U	0.0007 U	0.0008 J	0.330 J+	0.0006 U	0.00960	0.00008 J	0.00410	0.650	0.0006 U	0.001 U
G217	C	02/15/2023	A2	0.00043 U	0.00069 U	0.0960	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.300	0.00022 U	0.005 U	0.00014 U	0.00074 U	0.637	0.00074 U	0.00038 U
G217	C	06/08/2023	ADD	0.00043 U	--	--	0.00059 U	0.00074 U	0.0039 J	0.0012 J	--	--	0.005 U	0.00014 U	--	--	--	0.00038 U
G217	C	06/08/2023	A2R	--	0.00130	0.110	--	--	--	--	0.296	0.00120	--	--	0.00074 U	0.574	0.00074 U	--

TABLE 3
ANALYTICAL RESULTS - APPENDIX IV PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
GMF GYPSUM STACK POND
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)
G217	C	08/10/2023	A2D	0.0006 U	0.0004 U	0.107	0.0002 U	0.0002 U	0.0009 J	0.0004 J	0.380 J+	0.0006 U	0.00360	0.00006 U	0.0006 U	0.878	0.0006 U	0.001 U
G218	C	02/16/2023	A2	0.00043 U	0.00260	0.110	0.00059 U	0.00074 U	0.0028 U	0.0012 J	0.04 U	0.00084 J	0.005 U	0.00014 U	0.00074 U	0.277	0.00074 U	0.00038 U
G218	C	06/01/2023	A2R	0.00043 U	0.00330	0.0850	0.00059 U	0.00074 U	0.0028 U	0.00086 J	0.255	0.00052 J	0.0051 J	0.00014 U	0.00074 U	1.05	0.00074 U	0.00038 U
G218	C	08/10/2023	A2D	0.0006 U	0.00200	0.0747	0.0002 U	0.0002 U	0.0011 J	0.0007 J	0.320 J+	0.0006 U	0.00460	0.00006 U	0.0006 U	2.46	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

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TABLE 4
STATISTICAL BACKGROUND VALUES
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
GMF GYPSUM STACK POND
COFFEEN, IL

Parameter	Date Range	Sample Count	Percent Non-Detects	Statistical Calculation	Statistical Background Value (LPL/UPL)
Boron (mg/L)	11/23/2015 - 07/13/2017	16	56	Non-parametric UPL	0.390
Calcium (mg/L)	11/23/2015 - 07/13/2017	16	0	Parametric UPL	146
Chloride (mg/L)	11/23/2015 - 07/13/2017	16	0	Non-parametric UPL	96.0
Fluoride (mg/L)	11/23/2015 - 07/13/2017	16	0	Parametric UPL	0.502
pH (field) (SU)	11/23/2015 - 07/13/2017	16	0	Parametric LPL/UPL	6.9/7.3
Sulfate (mg/L)	11/23/2015 - 07/13/2017	16	0	Non-parametric UPL	300
Total Dissolved Solids (mg/L)	11/23/2015 - 07/13/2017	16	0	Parametric UPL	949

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
GMF GYPSUM STACK POND
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)	11/23/2015 - 07/13/2017	16	100	All ND - Last Reporting Limit	0.003	0.006	0.006	MCL/HBL
Arsenic (mg/L)	11/23/2015 - 07/13/2017	16	44	Non-parametric UTL	0.0100	0.010	0.010	MCL/HBL
Barium (mg/L)	11/23/2015 - 07/13/2017	16	0	Parametric UTL (log-transformed)	0.274	2.0	2.0	MCL/HBL
Beryllium (mg/L)	11/23/2015 - 07/13/2017	16	88	Non-parametric UTL	0.00670	0.004	0.00670	Background
Cadmium (mg/L)	11/23/2015 - 07/13/2017	16	94	Non-parametric UTL	0.00120	0.005	0.005	MCL/HBL
Chromium (mg/L)	11/23/2015 - 07/13/2017	16	69	Non-parametric UTL	0.0130	0.1	0.1	MCL/HBL
Cobalt (mg/L)	11/23/2015 - 07/13/2017	16	88	Non-parametric UTL	0.00740	0.006	0.00740	Background
Fluoride (mg/L)	11/23/2015 - 07/13/2017	16	0	Parametric UTL	0.524	4.0	4.0	MCL/HBL
Lead (mg/L)	11/23/2015 - 07/13/2017	16	69	Non-parametric UTL	0.0180	0.015	0.0180	Background
Lithium (mg/L)	11/23/2015 - 07/13/2017	16	88	Non-parametric UTL	0.0210	0.04	0.04	MCL/HBL
Mercury (mg/L)	11/23/2015 - 07/13/2017	16	100	All ND - Last Reporting Limit	0.0002	0.002	0.002	MCL/HBL
Molybdenum (mg/L)	11/23/2015 - 07/13/2017	16	81	Non-parametric UTL	0.00690	0.1	0.1	MCL/HBL
Radium 226 + Radium 228 (pCi/L)	11/23/2015 - 07/13/2017	16	0	Parametric UTL (log-transformed)	9.80	5	9.80	Background
Selenium (mg/L)	11/23/2015 - 07/13/2017	16	44	Non-parametric UTL	0.00970	0.05	0.05	MCL/HBL
Thallium (mg/L)	11/23/2015 - 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

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TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G206	UA	A2	Antimony, total	mg/L	11/18/2015 - 02/16/2023	18	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G206	UA	A2R	Antimony, total	mg/L	11/18/2015 - 06/09/2023	19	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G206	UA	A2	Arsenic, total	mg/L	11/18/2015 - 02/16/2023	18	78	CB around T-S line	-5.09e-05	0.010	MCL/HBL	No Exceedance
G206	UA	A2R	Arsenic, total	mg/L	11/18/2015 - 06/09/2023	19	74	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G206	UA	A2	Barium, total	mg/L	11/18/2015 - 02/16/2023	18	0	CI around mean	0.0464	2.0	MCL/HBL	No Exceedance
G206	UA	A2R	Barium, total	mg/L	11/18/2015 - 06/09/2023	19	0	CI around mean	0.0466	2.0	MCL/HBL	No Exceedance
G206	UA	A2	Beryllium, total	mg/L	11/18/2015 - 02/16/2023	18	100	All ND - Last	0.001	0.00670	Background	No Exceedance
G206	UA	A2R	Beryllium, total	mg/L	11/18/2015 - 06/09/2023	19	100	All ND - Last	0.001	0.00670	Background	No Exceedance
G206	UA	A2	Cadmium, total	mg/L	11/18/2015 - 02/16/2023	18	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G206	UA	A2R	Cadmium, total	mg/L	11/18/2015 - 06/09/2023	19	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G206	UA	A2	Chromium, total	mg/L	11/18/2015 - 02/16/2023	18	89	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G206	UA	A2R	Chromium, total	mg/L	11/18/2015 - 06/09/2023	19	89	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G206	UA	A2	Cobalt, total	mg/L	11/18/2015 - 02/16/2023	18	100	All ND - Last	0.002	0.00740	Background	No Exceedance
G206	UA	A2R	Cobalt, total	mg/L	11/18/2015 - 06/09/2023	19	100	All ND - Last	0.002	0.00740	Background	No Exceedance
G206	UA	A2	Fluoride, total	mg/L	11/18/2015 - 02/16/2023	26	3.8	CI around mean	0.376	4.0	MCL/HBL	No Exceedance
G206	UA	A2R	Fluoride, total	mg/L	11/18/2015 - 06/09/2023	27	3.7	CI around mean	0.378	4.0	MCL/HBL	No Exceedance
G206	UA	A2	Lead, total	mg/L	11/18/2015 - 02/16/2023	18	94	CI around median	0.001	0.0180	Background	No Exceedance
G206	UA	A2R	Lead, total	mg/L	11/18/2015 - 06/09/2023	19	95	CI around median	0.001	0.0180	Background	No Exceedance
G206	UA	A2	Lithium, total	mg/L	11/18/2015 - 02/16/2023	11	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G206	UA	A2R	Lithium, total	mg/L	11/18/2015 - 06/09/2023	12	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G206	UA	A2	Mercury, total	mg/L	11/18/2015 - 02/16/2023	18	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G206	UA	A2R	Mercury, total	mg/L	11/18/2015 - 06/09/2023	19	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G206	UA	A2	Molybdenum, total	mg/L	11/18/2015 - 02/16/2023	18	67	CB around T-S line	-0.000278	0.1	MCL/HBL	No Exceedance
G206	UA	A2R	Molybdenum, total	mg/L	11/18/2015 - 06/09/2023	19	68	CB around T-S line	-0.000347	0.1	MCL/HBL	No Exceedance
G206	UA	A2	Radium 226 + Radium 228, total	pCi/L	11/18/2015 - 02/16/2023	11	0	CI around mean	0.446	9.80	Background	No Exceedance
G206	UA	A2R	Radium 226 + Radium 228, total	pCi/L	11/18/2015 - 06/09/2023	12	0	CI around mean	0.409	9.80	Background	No Exceedance
G206	UA	A2	Selenium, total	mg/L	11/18/2015 - 02/16/2023	18	89	CI around median	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
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G206	UA	A2R	Selenium, total	mg/L	11/18/2015 - 06/09/2023	19	89	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G206	UA	A2	Thallium, total	mg/L	11/18/2015 - 02/16/2023	18	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G206	UA	A2R	Thallium, total	mg/L	11/18/2015 - 06/09/2023	19	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G206D	DA	A2	Antimony, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G206D	DA	A2R	Antimony, total	mg/L	--	--	--	--	--	0.006	MCL/HBL	--
G206D	DA	A2	Arsenic, total	mg/L	03/30/2021 - 02/16/2023	6	0	CI around geomean	0.00191	0.010	MCL/HBL	No Exceedance
G206D	DA	A2R	Arsenic, total	mg/L	03/30/2021 - 06/09/2023	7	0	CI around geomean	0.00224	0.010	MCL/HBL	No Exceedance
G206D	DA	A2	Barium, total	mg/L	03/30/2021 - 02/16/2023	6	0	CI around mean	0.0801	2.0	MCL/HBL	No Exceedance
G206D	DA	A2R	Barium, total	mg/L	03/30/2021 - 06/09/2023	7	0	CI around mean	0.0836	2.0	MCL/HBL	No Exceedance
G206D	DA	A2	Beryllium, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.001	0.00670	Background	No Exceedance
G206D	DA	A2R	Beryllium, total	mg/L	--	--	--	--	--	0.00670	Background	--
G206D	DA	A2	Cadmium, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G206D	DA	A2R	Cadmium, total	mg/L	--	--	--	--	--	0.005	MCL/HBL	--
G206D	DA	A2	Chromium, total	mg/L	03/30/2021 - 02/16/2023	6	83	CI around median (Last Sample, n<7)	0.004	0.1	MCL/HBL	No Exceedance
G206D	DA	A2R	Chromium, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
G206D	DA	A2	Cobalt, total	mg/L	03/30/2021 - 02/16/2023	6	83	CI around median (Last Sample, n<7)	0.002	0.00740	Background	No Exceedance
G206D	DA	A2R	Cobalt, total	mg/L	--	--	--	--	--	0.00740	Background	--
G206D	DA	A2	Fluoride, total	mg/L	03/30/2021 - 02/16/2023	6	0	CI around mean	0.525	4.0	MCL/HBL	No Exceedance
G206D	DA	A2R	Fluoride, total	mg/L	03/30/2021 - 06/09/2023	7	0	CI around mean	0.581	4.0	MCL/HBL	No Exceedance
G206D	DA	A2	Lead, total	mg/L	03/30/2021 - 02/16/2023	6	67	CI around median (Last Sample, n<7)	0.001	0.0180	Background	No Exceedance
G206D	DA	A2R	Lead, total	mg/L	03/30/2021 - 06/09/2023	7	71	CI around median	0.001	0.0180	Background	No Exceedance
G206D	DA	A2	Lithium, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G206D	DA	A2R	Lithium, total	mg/L	--	--	--	--	--	0.04	MCL/HBL	--
G206D	DA	A2	Mercury, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G206D	DA	A2R	Mercury, total	mg/L	--	--	--	--	--	0.002	MCL/HBL	--
G206D	DA	A2	Molybdenum, total	mg/L	03/30/2021 - 02/16/2023	6	0	CI around mean	0.0213	0.1	MCL/HBL	No Exceedance
G206D	DA	A2R	Molybdenum, total	mg/L	03/30/2021 - 06/09/2023	7	0	CI around mean	0.0187	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
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G206D	DA	A2	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 02/16/2023	7	0	CI around mean	-0.0103	9.80	Background	No Exceedance
G206D	DA	A2R	Radium 226 + Radium 228, total	pCi/L	03/30/2021 - 06/09/2023	8	0	CI around mean	0.0872	9.80	Background	No Exceedance
G206D	DA	A2	Selenium, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G206D	DA	A2R	Selenium, total	mg/L	03/30/2021 - 06/09/2023	7	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G206D	DA	A2	Thallium, total	mg/L	03/30/2021 - 02/16/2023	6	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G206D	DA	A2R	Thallium, total	mg/L	--	--	--	--	--	0.002	MCL/HBL	--
G209	UA	A2	Antimony, total	mg/L	11/18/2015 - 02/15/2023	18	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G209	UA	A2R	Antimony, total	mg/L	11/18/2015 - 06/09/2023	19	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G209	UA	A2	Arsenic, total	mg/L	11/18/2015 - 02/15/2023	18	17	CI around geomean	0.00113	0.010	MCL/HBL	No Exceedance
G209	UA	A2R	Arsenic, total	mg/L	11/18/2015 - 06/09/2023	19	16	CI around geomean	0.00114	0.010	MCL/HBL	No Exceedance
G209	UA	A2	Barium, total	mg/L	11/18/2015 - 02/15/2023	18	0	CI around mean	0.0552	2.0	MCL/HBL	No Exceedance
G209	UA	A2R	Barium, total	mg/L	11/18/2015 - 06/09/2023	19	0	CI around mean	0.056	2.0	MCL/HBL	No Exceedance
G209	UA	A2	Beryllium, total	mg/L	11/18/2015 - 02/15/2023	18	100	All ND - Last	0.001	0.00670	Background	No Exceedance
G209	UA	A2R	Beryllium, total	mg/L	11/18/2015 - 06/09/2023	19	100	All ND - Last	0.001	0.00670	Background	No Exceedance
G209	UA	A2	Cadmium, total	mg/L	11/18/2015 - 02/15/2023	18	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G209	UA	A2R	Cadmium, total	mg/L	11/18/2015 - 06/09/2023	19	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G209	UA	A2	Chromium, total	mg/L	11/18/2015 - 02/15/2023	18	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G209	UA	A2R	Chromium, total	mg/L	11/18/2015 - 06/09/2023	19	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G209	UA	A2	Cobalt, total	mg/L	11/18/2015 - 02/15/2023	18	100	All ND - Last	0.002	0.00740	Background	No Exceedance
G209	UA	A2R	Cobalt, total	mg/L	11/18/2015 - 06/09/2023	19	100	All ND - Last	0.002	0.00740	Background	No Exceedance
G209	UA	A2	Fluoride, total	mg/L	11/18/2015 - 02/15/2023	26	0	CI around mean	0.398	4.0	MCL/HBL	No Exceedance
G209	UA	A2R	Fluoride, total	mg/L	11/18/2015 - 06/09/2023	27	0	CI around mean	0.398	4.0	MCL/HBL	No Exceedance
G209	UA	A2	Lead, total	mg/L	11/18/2015 - 02/15/2023	18	94	CI around median	0.001	0.0180	Background	No Exceedance
G209	UA	A2R	Lead, total	mg/L	11/18/2015 - 06/09/2023	19	95	CI around median	0.001	0.0180	Background	No Exceedance
G209	UA	A2	Lithium, total	mg/L	11/18/2015 - 02/15/2023	11	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G209	UA	A2R	Lithium, total	mg/L	11/18/2015 - 06/09/2023	12	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G209	UA	A2	Mercury, total	mg/L	11/18/2015 - 02/15/2023	18	100	All ND - Last	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
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G209	UA	A2R	Mercury, total	mg/L	11/18/2015 - 06/09/2023	19	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G209	UA	A2	Molybdenum, total	mg/L	11/18/2015 - 02/15/2023	18	11	CI around mean	0.00141	0.1	MCL/HBL	No Exceedance
G209	UA	A2R	Molybdenum, total	mg/L	11/18/2015 - 06/09/2023	19	11	CI around mean	0.00148	0.1	MCL/HBL	No Exceedance
G209	UA	A2	Radium 226 + Radium 228, total	pCi/L	11/18/2015 - 02/15/2023	11	0	CI around mean	0.519	9.80	Background	No Exceedance
G209	UA	A2R	Radium 226 + Radium 228, total	pCi/L	11/18/2015 - 06/09/2023	12	0	CI around mean	0.48	9.80	Background	No Exceedance
G209	UA	A2	Selenium, total	mg/L	11/18/2015 - 02/15/2023	18	94	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G209	UA	A2R	Selenium, total	mg/L	11/18/2015 - 06/09/2023	19	95	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G209	UA	A2	Thallium, total	mg/L	11/18/2015 - 02/15/2023	18	94	Most recent sample	0.001	0.002	MCL/HBL	No Exceedance
G209	UA	A2R	Thallium, total	mg/L	11/18/2015 - 06/09/2023	19	95	Most recent sample	0.001	0.002	MCL/HBL	No Exceedance
G212	UA	A2	Antimony, total	mg/L	11/18/2015 - 02/14/2023	18	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G212	UA	A2R	Antimony, total	mg/L	11/18/2015 - 06/07/2023	19	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G212	UA	A2	Arsenic, total	mg/L	11/18/2015 - 02/14/2023	18	89	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G212	UA	A2R	Arsenic, total	mg/L	11/18/2015 - 06/07/2023	19	89	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G212	UA	A2	Barium, total	mg/L	11/18/2015 - 02/14/2023	18	0	CB around linear reg	0.0427	2.0	MCL/HBL	No Exceedance
G212	UA	A2R	Barium, total	mg/L	11/18/2015 - 06/07/2023	19	0	CI around mean	0.0479	2.0	MCL/HBL	No Exceedance
G212	UA	A2	Beryllium, total	mg/L	11/18/2015 - 02/14/2023	18	94	CI around median	0.001	0.00670	Background	No Exceedance
G212	UA	A2R	Beryllium, total	mg/L	11/18/2015 - 06/07/2023	19	95	CI around median	0.001	0.00670	Background	No Exceedance
G212	UA	A2	Cadmium, total	mg/L	11/18/2015 - 02/14/2023	18	94	CI around median	0.001	0.005	MCL/HBL	No Exceedance
G212	UA	A2R	Cadmium, total	mg/L	11/18/2015 - 06/07/2023	19	95	CI around median	0.001	0.005	MCL/HBL	No Exceedance
G212	UA	A2	Chromium, total	mg/L	11/18/2015 - 02/14/2023	18	94	Most recent sample	0.004	0.1	MCL/HBL	No Exceedance
G212	UA	A2R	Chromium, total	mg/L	11/18/2015 - 06/07/2023	19	95	Most recent sample	0.004	0.1	MCL/HBL	No Exceedance
G212	UA	A2	Cobalt, total	mg/L	11/18/2015 - 02/14/2023	18	100	All ND - Last	0.002	0.00740	Background	No Exceedance
G212	UA	A2R	Cobalt, total	mg/L	11/18/2015 - 06/07/2023	19	100	All ND - Last	0.002	0.00740	Background	No Exceedance
G212	UA	A2	Fluoride, total	mg/L	11/18/2015 - 02/14/2023	25	12	CI around mean	0.282	4.0	MCL/HBL	No Exceedance
G212	UA	A2R	Fluoride, total	mg/L	11/18/2015 - 06/07/2023	26	15	CB around linear reg	0.231	4.0	MCL/HBL	No Exceedance
G212	UA	A2	Lead, total	mg/L	11/18/2015 - 02/14/2023	18	83	CI around median	0.001	0.0180	Background	No Exceedance
G212	UA	A2R	Lead, total	mg/L	11/18/2015 - 06/07/2023	19	84	CI around median	0.001	0.0180	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
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G212	UA	A2	Lithium, total	mg/L	11/18/2015 - 02/14/2023	11	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G212	UA	A2R	Lithium, total	mg/L	11/18/2015 - 06/07/2023	12	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G212	UA	A2	Mercury, total	mg/L	11/18/2015 - 02/14/2023	18	94	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
G212	UA	A2R	Mercury, total	mg/L	11/18/2015 - 06/07/2023	19	95	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
G212	UA	A2	Molybdenum, total	mg/L	11/18/2015 - 02/14/2023	18	72	CI around median	0.001	0.1	MCL/HBL	No Exceedance
G212	UA	A2R	Molybdenum, total	mg/L	11/18/2015 - 06/07/2023	19	74	CI around median	0.001	0.1	MCL/HBL	No Exceedance
G212	UA	A2	Radium 226 + Radium 228, total	pCi/L	11/18/2015 - 02/14/2023	11	0	CI around mean	0.341	9.80	Background	No Exceedance
G212	UA	A2R	Radium 226 + Radium 228, total	pCi/L	11/18/2015 - 06/07/2023	12	0	CI around mean	0.316	9.80	Background	No Exceedance
G212	UA	A2	Selenium, total	mg/L	11/18/2015 - 02/14/2023	18	11	CB around linear reg	0.000412	0.05	MCL/HBL	No Exceedance
G212	UA	A2R	Selenium, total	mg/L	11/18/2015 - 06/07/2023	19	16	CB around linear reg	0.000489	0.05	MCL/HBL	No Exceedance
G212	UA	A2	Thallium, total	mg/L	11/18/2015 - 02/14/2023	18	94	CI around median	0.001	0.002	MCL/HBL	No Exceedance
G212	UA	A2R	Thallium, total	mg/L	11/18/2015 - 06/07/2023	19	95	CI around median	0.001	0.002	MCL/HBL	No Exceedance
G213	UA	A2	Antimony, total	mg/L	10/13/2020 - 02/15/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G213	UA	A2R	Antimony, total	mg/L	--	--	--	--	--	0.006	MCL/HBL	--
G213	UA	A2	Arsenic, total	mg/L	10/13/2020 - 02/15/2023	10	90	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G213	UA	A2R	Arsenic, total	mg/L	10/13/2020 - 06/07/2023	11	91	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G213	UA	A2	Barium, total	mg/L	10/13/2020 - 02/15/2023	10	0	CI around mean	0.0435	2.0	MCL/HBL	No Exceedance
G213	UA	A2R	Barium, total	mg/L	10/13/2020 - 06/07/2023	11	0	CI around mean	0.0444	2.0	MCL/HBL	No Exceedance
G213	UA	A2	Beryllium, total	mg/L	10/13/2020 - 02/15/2023	10	100	All ND - Last	0.001	0.00670	Background	No Exceedance
G213	UA	A2R	Beryllium, total	mg/L	--	--	--	--	--	0.00670	Background	--
G213	UA	A2	Cadmium, total	mg/L	10/13/2020 - 02/15/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G213	UA	A2R	Cadmium, total	mg/L	--	--	--	--	--	0.005	MCL/HBL	--
G213	UA	A2	Chromium, total	mg/L	10/13/2020 - 02/15/2023	10	90	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G213	UA	A2R	Chromium, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
G213	UA	A2	Cobalt, total	mg/L	10/13/2020 - 02/15/2023	10	100	All ND - Last	0.002	0.00740	Background	No Exceedance
G213	UA	A2R	Cobalt, total	mg/L	--	--	--	--	--	0.00740	Background	--
G213	UA	A2	Fluoride, total	mg/L	10/13/2020 - 02/15/2023	10	10	CI around mean	0.259	4.0	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
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G213	UA	A2R	Fluoride, total	mg/L	10/13/2020 - 06/07/2023	11	18	CI around mean	0.291	4.0	MCL/HBL	No Exceedance
G213	UA	A2	Lead, total	mg/L	10/13/2020 - 02/15/2023	10	90	CI around median	0.001	0.0180	Background	No Exceedance
G213	UA	A2R	Lead, total	mg/L	10/13/2020 - 06/07/2023	11	91	CI around median	0.001	0.0180	Background	No Exceedance
G213	UA	A2	Lithium, total	mg/L	02/15/2023 - 02/15/2023	1	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G213	UA	A2R	Lithium, total	mg/L	--	--	--	--	--	0.04	MCL/HBL	--
G213	UA	A2	Mercury, total	mg/L	10/13/2020 - 02/15/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G213	UA	A2R	Mercury, total	mg/L	--	--	--	--	--	0.002	MCL/HBL	--
G213	UA	A2	Molybdenum, total	mg/L	10/13/2020 - 02/15/2023	10	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
G213	UA	A2R	Molybdenum, total	mg/L	10/13/2020 - 06/07/2023	11	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
G213	UA	A2	Radium 226 + Radium 228, total	pCi/L	02/15/2023 - 02/15/2023	1	0	Most recent sample	2.08	9.80	Background	No Exceedance
G213	UA	A2R	Radium 226 + Radium 228, total	pCi/L	02/15/2023 - 06/07/2023	2	0	Most recent sample	0.399	9.80	Background	No Exceedance
G213	UA	A2	Selenium, total	mg/L	10/13/2020 - 02/15/2023	10	40	CI around geomean	0.000938	0.05	MCL/HBL	No Exceedance
G213	UA	A2R	Selenium, total	mg/L	10/13/2020 - 06/07/2023	11	36	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G213	UA	A2	Thallium, total	mg/L	10/13/2020 - 02/15/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G213	UA	A2R	Thallium, total	mg/L	--	--	--	--	--	0.002	MCL/HBL	--
G215	UA	A2	Antimony, total	mg/L	11/24/2015 - 02/15/2023	18	94	CI around median	0.003	0.006	MCL/HBL	No Exceedance
G215	UA	A2R	Antimony, total	mg/L	11/24/2015 - 06/01/2023	19	95	CI around median	0.003	0.006	MCL/HBL	No Exceedance
G215	UA	A2	Arsenic, total	mg/L	11/24/2015 - 02/15/2023	18	0	CI around geomean	0.00487	0.010	MCL/HBL	No Exceedance
G215	UA	A2R	Arsenic, total	mg/L	11/24/2015 - 06/01/2023	19	0	CI around geomean	0.00514	0.010	MCL/HBL	No Exceedance
G215	UA	A2	Barium, total	mg/L	11/24/2015 - 02/15/2023	18	0	CB around linear reg	0.00773	2.0	MCL/HBL	No Exceedance
G215	UA	A2R	Barium, total	mg/L	11/24/2015 - 06/01/2023	19	0	CB around linear reg	0.0068	2.0	MCL/HBL	No Exceedance
G215	UA	A2	Beryllium, total	mg/L	11/24/2015 - 02/15/2023	18	100	All ND - Last	0.001	0.00670	Background	No Exceedance
G215	UA	A2R	Beryllium, total	mg/L	11/24/2015 - 06/01/2023	19	100	All ND - Last	0.001	0.00670	Background	No Exceedance
G215	UA	A2	Cadmium, total	mg/L	11/24/2015 - 02/15/2023	18	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G215	UA	A2R	Cadmium, total	mg/L	11/24/2015 - 06/01/2023	19	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
G215	UA	A2	Chromium, total	mg/L	11/24/2015 - 02/15/2023	18	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G215	UA	A2R	Chromium, total	mg/L	11/24/2015 - 06/01/2023	19	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
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G215	UA	A2	Cobalt, total	mg/L	11/24/2015 - 02/15/2023	18	94	CI around median	0.002	0.00740	Background	No Exceedance
G215	UA	A2R	Cobalt, total	mg/L	11/24/2015 - 06/01/2023	19	95	CI around median	0.002	0.00740	Background	No Exceedance
G215	UA	A2	Fluoride, total	mg/L	11/24/2015 - 02/15/2023	26	19	CB around T-S line	0.216	4.0	MCL/HBL	No Exceedance
G215	UA	A2R	Fluoride, total	mg/L	11/24/2015 - 06/01/2023	27	22	CB around T-S line	0.216	4.0	MCL/HBL	No Exceedance
G215	UA	A2	Lead, total	mg/L	11/24/2015 - 02/15/2023	18	94	CI around median	0.001	0.0180	Background	No Exceedance
G215	UA	A2R	Lead, total	mg/L	11/24/2015 - 06/01/2023	19	95	CI around median	0.001	0.0180	Background	No Exceedance
G215	UA	A2	Lithium, total	mg/L	11/24/2015 - 02/15/2023	11	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G215	UA	A2R	Lithium, total	mg/L	11/24/2015 - 06/01/2023	12	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G215	UA	A2	Mercury, total	mg/L	11/24/2015 - 02/15/2023	18	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G215	UA	A2R	Mercury, total	mg/L	11/24/2015 - 06/01/2023	19	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G215	UA	A2	Molybdenum, total	mg/L	11/24/2015 - 02/15/2023	18	94	CI around median	0.001	0.1	MCL/HBL	No Exceedance
G215	UA	A2R	Molybdenum, total	mg/L	11/24/2015 - 06/01/2023	19	95	CI around median	0.001	0.1	MCL/HBL	No Exceedance
G215	UA	A2	Radium 226 + Radium 228, total	pCi/L	11/24/2015 - 02/15/2023	11	0	CI around mean	0.361	9.80	Background	No Exceedance
G215	UA	A2R	Radium 226 + Radium 228, total	pCi/L	11/24/2015 - 06/01/2023	12	0	CI around mean	0.415	9.80	Background	No Exceedance
G215	UA	A2	Selenium, total	mg/L	11/24/2015 - 02/15/2023	18	94	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G215	UA	A2R	Selenium, total	mg/L	11/24/2015 - 06/01/2023	19	95	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G215	UA	A2	Thallium, total	mg/L	11/24/2015 - 02/15/2023	18	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G215	UA	A2R	Thallium, total	mg/L	11/24/2015 - 06/01/2023	19	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G217	UA	A2	Antimony, total	mg/L	10/14/2020 - 02/15/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G217	UA	A2R	Antimony, total	mg/L	--	--	--	--	--	0.006	MCL/HBL	--
G217	UA	A2	Arsenic, total	mg/L	10/14/2020 - 02/15/2023	10	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
G217	UA	A2R	Arsenic, total	mg/L	10/14/2020 - 06/08/2023	11	91	CI around median	0.001	0.010	MCL/HBL	No Exceedance
G217	UA	A2	Barium, total	mg/L	10/14/2020 - 02/15/2023	10	0	CI around mean	0.0911	2.0	MCL/HBL	No Exceedance
G217	UA	A2R	Barium, total	mg/L	10/14/2020 - 06/08/2023	11	0	CI around mean	0.0926	2.0	MCL/HBL	No Exceedance
G217	UA	A2	Beryllium, total	mg/L	10/14/2020 - 02/15/2023	10	100	All ND - Last	0.001	0.00670	Background	No Exceedance
G217	UA	A2R	Beryllium, total	mg/L	--	--	--	--	--	0.00670	Background	--
G217	UA	A2	Cadmium, total	mg/L	10/14/2020 - 02/15/2023	10	100	All ND - Last	0.001	0.005	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
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G217	UA	A2R	Cadmium, total	mg/L	--	--	--	--	--	0.005	MCL/HBL	--
G217	UA	A2	Chromium, total	mg/L	10/14/2020 - 02/15/2023	10	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
G217	UA	A2R	Chromium, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
G217	UA	A2	Cobalt, total	mg/L	10/14/2020 - 02/15/2023	10	100	All ND - Last	0.002	0.00740	Background	No Exceedance
G217	UA	A2R	Cobalt, total	mg/L	--	--	--	--	--	0.00740	Background	--
G217	UA	A2	Fluoride, total	mg/L	10/14/2020 - 02/15/2023	10	20	CI around geomean	0.298	4.0	MCL/HBL	No Exceedance
G217	UA	A2R	Fluoride, total	mg/L	10/14/2020 - 06/08/2023	11	18	CI around geomean	0.296	4.0	MCL/HBL	No Exceedance
G217	UA	A2	Lead, total	mg/L	10/14/2020 - 02/15/2023	10	100	All ND - Last	0.001	0.0180	Background	No Exceedance
G217	UA	A2R	Lead, total	mg/L	10/14/2020 - 06/08/2023	11	91	CI around median	0.001	0.0180	Background	No Exceedance
G217	UA	A2	Lithium, total	mg/L	02/15/2023 - 02/15/2023	1	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G217	UA	A2R	Lithium, total	mg/L	--	--	--	--	--	0.04	MCL/HBL	--
G217	UA	A2	Mercury, total	mg/L	10/14/2020 - 02/15/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G217	UA	A2R	Mercury, total	mg/L	--	--	--	--	--	0.002	MCL/HBL	--
G217	UA	A2	Molybdenum, total	mg/L	10/14/2020 - 02/15/2023	10	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
G217	UA	A2R	Molybdenum, total	mg/L	10/14/2020 - 06/08/2023	11	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
G217	UA	A2	Radium 226 + Radium 228, total	pCi/L	02/15/2023 - 02/15/2023	1	0	Most recent sample	0.637	9.80	Background	No Exceedance
G217	UA	A2R	Radium 226 + Radium 228, total	pCi/L	02/15/2023 - 06/08/2023	2	0	Most recent sample	0.574	9.80	Background	No Exceedance
G217	UA	A2	Selenium, total	mg/L	10/14/2020 - 02/15/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G217	UA	A2R	Selenium, total	mg/L	10/14/2020 - 06/08/2023	11	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
G217	UA	A2	Thallium, total	mg/L	10/14/2020 - 02/15/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G217	UA	A2R	Thallium, total	mg/L	--	--	--	--	--	0.002	MCL/HBL	--
G218	UA	A2	Antimony, total	mg/L	11/24/2015 - 02/16/2023	18	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G218	UA	A2R	Antimony, total	mg/L	11/24/2015 - 06/01/2023	19	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
G218	UA	A2	Arsenic, total	mg/L	11/24/2015 - 02/16/2023	18	11	CI around geomean	0.00111	0.010	MCL/HBL	No Exceedance
G218	UA	A2R	Arsenic, total	mg/L	11/24/2015 - 06/01/2023	19	11	CI around geomean	0.00117	0.010	MCL/HBL	No Exceedance
G218	UA	A2	Barium, total	mg/L	11/24/2015 - 02/16/2023	18	0	CB around linear reg	0.0993	2.0	MCL/HBL	No Exceedance
G218	UA	A2R	Barium, total	mg/L	11/24/2015 - 06/01/2023	19	0	CB around linear reg	0.093	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
GMF GYPSUM STACK POND
COFFEEN, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
G218	UA	A2	Beryllium, total	mg/L	11/24/2015 - 02/16/2023	18	94	CI around median	0.001	0.00670	Background	No Exceedance
G218	UA	A2R	Beryllium, total	mg/L	11/24/2015 - 06/01/2023	19	95	CI around median	0.001	0.00670	Background	No Exceedance
G218	UA	A2	Cadmium, total	mg/L	11/24/2015 - 02/16/2023	18	94	CI around median	0.001	0.005	MCL/HBL	No Exceedance
G218	UA	A2R	Cadmium, total	mg/L	11/24/2015 - 06/01/2023	19	95	CI around median	0.001	0.005	MCL/HBL	No Exceedance
G218	UA	A2	Chromium, total	mg/L	11/24/2015 - 02/16/2023	18	94	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G218	UA	A2R	Chromium, total	mg/L	11/24/2015 - 06/01/2023	19	95	CI around median	0.004	0.1	MCL/HBL	No Exceedance
G218	UA	A2	Cobalt, total	mg/L	11/24/2015 - 02/16/2023	18	94	CI around median	0.002	0.00740	Background	No Exceedance
G218	UA	A2R	Cobalt, total	mg/L	11/24/2015 - 06/01/2023	19	95	CI around median	0.002	0.00740	Background	No Exceedance
G218	UA	A2	Fluoride, total	mg/L	11/24/2015 - 02/16/2023	26	15	CI around mean	0.32	4.0	MCL/HBL	No Exceedance
G218	UA	A2R	Fluoride, total	mg/L	11/24/2015 - 06/01/2023	27	15	CI around mean	0.283	4.0	MCL/HBL	No Exceedance
G218	UA	A2	Lead, total	mg/L	11/24/2015 - 02/16/2023	18	94	CI around median	0.001	0.0180	Background	No Exceedance
G218	UA	A2R	Lead, total	mg/L	11/24/2015 - 06/01/2023	19	95	CI around median	0.001	0.0180	Background	No Exceedance
G218	UA	A2	Lithium, total	mg/L	11/24/2015 - 02/16/2023	11	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G218	UA	A2R	Lithium, total	mg/L	11/24/2015 - 06/01/2023	12	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
G218	UA	A2	Mercury, total	mg/L	11/24/2015 - 02/16/2023	18	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G218	UA	A2R	Mercury, total	mg/L	11/24/2015 - 06/01/2023	19	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
G218	UA	A2	Molybdenum, total	mg/L	11/24/2015 - 02/16/2023	18	89	CI around median	0.001	0.1	MCL/HBL	No Exceedance
G218	UA	A2R	Molybdenum, total	mg/L	11/24/2015 - 06/01/2023	19	89	CI around median	0.001	0.1	MCL/HBL	No Exceedance
G218	UA	A2	Radium 226 + Radium 228, total	pCi/L	11/24/2015 - 02/16/2023	11	0	CI around mean	0.588	9.80	Background	No Exceedance
G218	UA	A2R	Radium 226 + Radium 228, total	pCi/L	11/24/2015 - 06/01/2023	12	0	CI around mean	0.628	9.80	Background	No Exceedance
G218	UA	A2	Selenium, total	mg/L	11/24/2015 - 02/16/2023	18	94	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G218	UA	A2R	Selenium, total	mg/L	11/24/2015 - 06/01/2023	19	95	CI around median	0.001	0.05	MCL/HBL	No Exceedance
G218	UA	A2	Thallium, total	mg/L	11/24/2015 - 02/16/2023	18	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
G218	UA	A2R	Thallium, total	mg/L	11/24/2015 - 06/01/2023	19	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
GMF GYPSUM STACK POND
COFFEEN, IL

Notes:
– = no data available
Statistically Significant Level (SSL) Type:

No Exceedance: No exceedance of the GWPS and no resample was collected.

GWPS = Groundwater Protection Standard
GWPS Source:

Background = background concentration

MCL/HBL = maximum contaminant level/health-based level

HSU = hydrostratigraphic unit:

DA = Deep Aquifer

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

Most recent sample = Result for the most recently collected sample used due to insufficient data

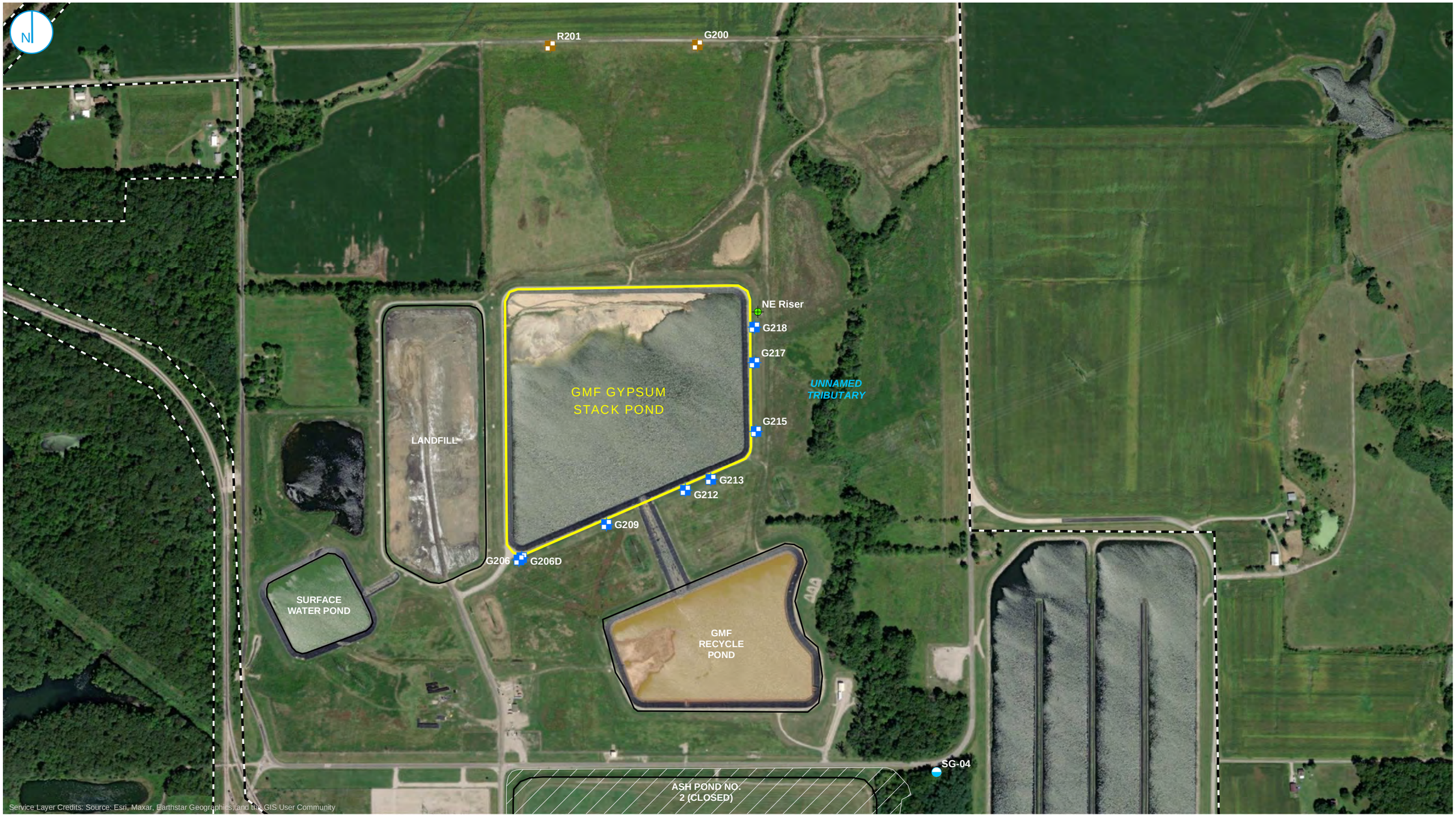
Statistical Result = calculated in accordance with Statistical Analysis Plan using constituent concentrations observed at monitoring well during all sampling events within the specified date range

Generated 2024-01-14 02:56:46.048335 by banoffra

FIGURES

Y:\Mapping\Projects\22\2285\MXD\GMP\Coffeen\GMF_GSP_103\Figure 2-1. Expanded Part 257 GW Monitoring Well Network.mxd

PROJECT: 169000XXXX | DATED: 1/11/2023 | DESIGNER: galammc



COMPLIANCE MONITORING WELL
BACKGROUND MONITORING WELL
LEACHATE WELL
STAFF GAGE, RIVER

REGULATED UNIT (SUBJECT UNIT)
SITE FEATURE
LIMITS OF FINAL COVER
PROPERTY BOUNDARY

0 250 500 Feet

MONITORING WELL LOCATION MAP

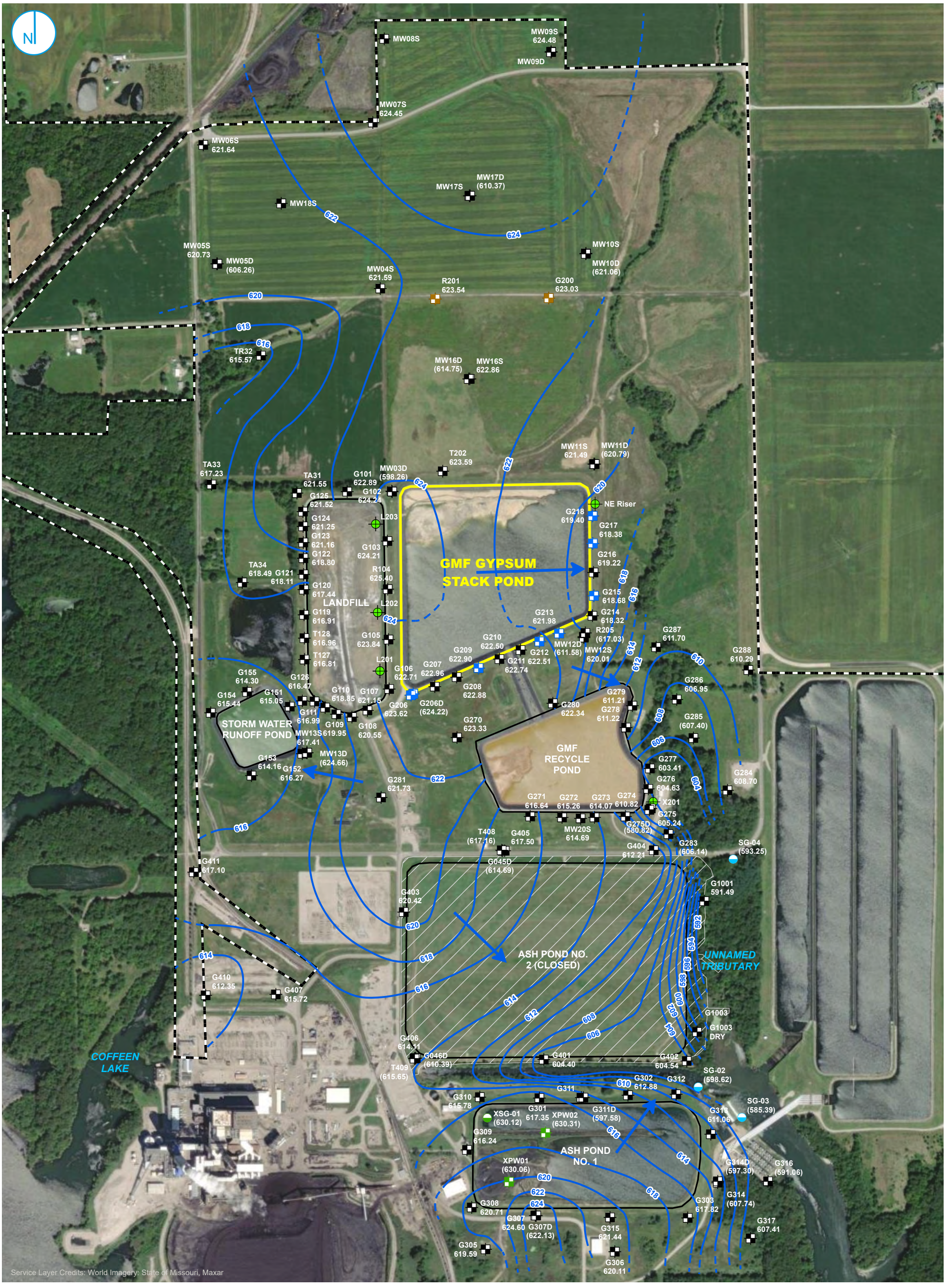
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
GMF GYPSUM STACK POND

COFFEEN POWER PLANT
COFFEEN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL



- 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

0 325 650 Feet

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
FEBRUARY 13 AND 14, 2023

FIGURE 2

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
GMF GYPSUM STACK POND
COFFEEN POWER PLANT
COFFEEN, ILLINOIS

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

- 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

0 325 650 Feet

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

FIGURE 3

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
GMF GYPSUM STACK POND
COFFEEN POWER PLANT
COFFEEN, ILLINOIS

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Service Layer Credits: World Imagery: State of Missouri, Maxar

- COMPLIANCE MONITORING WELL
- BACKGROUND 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

0 325 650 Feet

NOTES:
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 GMF GYPSUM STACK POND

COFFEEN POWER PLANT
COFFEEN, ILLINOIS

FIGURE 4

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Service Layer Credits: World Imagery: State of Missouri, Maxar

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- LEACHATE 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

0 325 650 Feet

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

FIGURE 5

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
GMF GYPSUM STACK POND
COFFEEN POWER PLANT
COFFEEN, ILLINOIS

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL

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 Schindler

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

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

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

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(800)752-6651

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

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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

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Peoria, IL 61615
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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

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Work Order GB03507

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

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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

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Case Narrative

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.(?64(7!.(;+)9!Qadded case narrative

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Sample: GB03506-01
Name: G200
Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 13:00
Received: 02/17/23 08:30
Matrix: Ground Water - Grab
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.83	pCi/L			1	0.665	03/23/23 14:27		904.0 903.0

Sample: GB03506-02
Name: G206D
Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 11:12
Received: 02/17/23 08:30
Matrix: Ground Water - Grab
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.971	pCi/L			1	0.616	03/23/23 14:27		904.0 903.0

Sample: GB03506-03
Name: G206
Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 10:23
Received: 02/17/23 08:30
Matrix: Ground Water - Grab
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.499 J	pCi/L			1	0.511	03/23/23 14:27		904.0 903.0

Sample: GB03506-04
Name: G218
Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 13:12
Received: 02/17/23 08:30
Matrix: Ground Water - Grab
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.277 J	pCi/L			1	0.469	03/23/23 14:27		904.0 903.0

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ANALYTICAL RESULTS

Sample: GB03506-18
Name: R201
Alias: COFFEEN GYPSUM STACK

Sampled: 02/16/23 10:05
Received: 02/17/23 08:30
Matrix: Ground Water - Grab
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.46	pCi/L			1	0.785	03/24/23 10:08		904.0 903.0

Sample: GB03507-06
Name: G212
Alias: COFFEEN GYPSUM STACK

Sampled: 02/14/23 16:09
Received: 02/15/23 16:00
Matrix: Ground Water - Grab
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.202 J	pCi/L			1	0.467	03/24/23 10:08		904.0 903.0

Sample: GB03508-01
Name: G209
Alias: COFFEEN GYPSUM STACK

Sampled: 02/15/23 13:12
Received: 02/16/23 14:30
Matrix: Ground Water - Grab
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.03	pCi/L			1	0.725	03/27/23 10:20		904.0 903.0

Sample: GB03508-02
Name: G213
Alias: COFFEEN GYPSUM STACK

Sampled: 02/15/23 10:59
Received: 02/16/23 14:30
Matrix: Ground Water - Grab
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.08	pCi/L			1	0.588	03/27/23 10:20		904.0 903.0

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ANALYTICAL RESULTS

Sample: GB03508-03
Name: G215
Alias: COFFEEN GYPSUM STACK

Sampled: 02/15/23 12:04
Received: 02/16/23 14:30
Matrix: Ground Water - Grab
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.463 J	pCi/L			1	0.745	03/27/23 10:20		904.0 903.0

Sample: GB03508-04
Name: G217
Alias: COFFEEN GYPSUM STACK

Sampled: 02/15/23 17:08
Received: 02/16/23 14:30
Matrix: Ground Water - Grab
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.637 J	pCi/L			1	0.721	03/27/23 10:20		904.0 903.0

ANALYTICAL RESULTS

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ANALYTICAL RESULTS

Sample: GB02992-12
Name: G212
Matrix: Ground Water - Grab

Sampled: 02/14/23 16:09
Received: 02/15/23 16:00
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	45	mg/L		02/21/23 02:32	10	10	02/21/23 02:32	CRD	EPA 300.0 REV 2.1
Fluoride	0.254	mg/L		02/21/23 02:13	1	0.250	02/21/23 02:13	CRD	EPA 300.0 REV 2.1
Sulfate	54	mg/L		02/21/23 02:32	10	10	02/21/23 02:32	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.11	Feet		02/14/23 00:00	1		02/14/23 00:00	FIELD	Field*
Dissolved oxygen, Field	5.0	mg/L		02/14/23 00:00	1		02/14/23 00:00	FIELD	Field*
Oxidation Reduction Potential	159	mV		02/14/23 00:00	1	-500	02/14/23 00:00	FIELD	Field*
pH, Field Measured	7.52	pH Units		02/14/23 00:00	1		02/14/23 00:00	FIELD	Field*
Specific Conductance, Field Measured	708.0	umhos/cm		02/14/23 00:00	1		02/14/23 00:00	FIELD	Field*
Temperature, Field Measured	13.0	°C		02/14/23 00:00	1		02/14/23 00:00	FIELD	Field*
Turbidity, Field Measured	41.9	NTU		02/14/23 00:00	1	0.00	02/14/23 00:00	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	240	mg/L		02/22/23 10:11	1	10	02/22/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/22/23 10:11	1	10	02/22/23 10:11	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	520	mg/L		02/17/23 10:41	1	26	02/17/23 12:21	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/20/23 09:25	5	3.0	02/23/23 10:24	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		02/20/23 09:25	5	1.0	02/23/23 10:24	JMW	EPA 6020A
Barium	51	ug/L		02/20/23 09:25	5	1.0	02/23/23 10:24	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/20/23 09:25	5	1.0	02/23/23 10:24	JMW	EPA 6020A
Boron	< 10	ug/L		02/20/23 09:25	5	10	02/23/23 10:24	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/20/23 09:25	5	1.0	02/23/23 10:24	JMW	EPA 6020A
Calcium	60	mg/L		02/20/23 09:25	5	0.20	02/23/23 10:24	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/20/23 09:25	5	4.0	02/23/23 10:24	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/20/23 09:25	5	2.0	02/23/23 10:24	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/20/23 09:25	5	1.0	02/23/23 10:24	JMW	EPA 6020A
Magnesium	27	mg/L		02/20/23 09:25	5	0.10	02/23/23 10:24	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/20/23 09:25	5	0.20	02/23/23 10:24	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/20/23 09:25	5	1.0	02/23/23 10:24	JMW	EPA 6020A
Potassium	0.26	mg/L		02/20/23 09:25	5	0.10	02/23/23 10:24	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB02992-12
Name: G212
Matrix: Ground Water - Grab

Sampled: 02/14/23 16:09
Received: 02/15/23 16:00
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	1.4	ug/L		02/20/23 09:25	5	1.0	02/23/23 10:24	JMW	EPA 6020A
Sodium	59	mg/L		02/20/23 09:25	5	0.10	02/23/23 10:24	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/20/23 09:25	5	1.0	02/23/23 10:24	JMW	EPA 6020A
Lithium	< 20	ug/L		02/20/23 09:25	1	20	02/22/23 13:50	TJJ	EPA 6010B

Sample: GB02992-25
Name: SG-04
Matrix: Ground Water - Grab

Sampled: 02/13/23 16:14
Received: 02/15/23 16:00
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	6.27	Feet		02/13/23 16:14	1		02/13/23 16:14	FIELD	Field*

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ANALYTICAL RESULTS

Sample: GB03263-14
Name: G209
Matrix: Ground Water - Grab

Sampled: 02/15/23 13:12
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	56	mg/L		02/20/23 12:53	50	50	02/20/23 12:53	CRD	EPA 300.0 REV 2.1
Fluoride	0.371	mg/L		02/20/23 12:35	1	0.250	02/20/23 12:35	CRD	EPA 300.0 REV 2.1
Sulfate	230	mg/L		02/20/23 12:53	50	50	02/20/23 12:53	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.05	Feet		02/15/23 13:12	1		02/15/23 13:12	FIELD	Field*
Dissolved oxygen, Field	2.4	mg/L		02/15/23 13:12	1		02/15/23 13:12	FIELD	Field*
Oxidation Reduction Potential	128	mV		02/15/23 13:12	1	-500	02/15/23 13:12	FIELD	Field*
pH, Field Measured	7.35	pH Units		02/15/23 13:12	1		02/15/23 13:12	FIELD	Field*
Specific Conductance, Field Measured	1230	umhos/cm		02/15/23 13:12	1		02/15/23 13:12	FIELD	Field*
Temperature, Field Measured	15.2	°C		02/15/23 13:12	1		02/15/23 13:12	FIELD	Field*
Turbidity, Field Measured	30.4	NTU		02/15/23 13:12	1	0.00	02/15/23 13:12	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	380	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*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	930	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 16:20	JMW	EPA 6020A
Arsenic	1.4	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:24	JMW	EPA 6020A
Barium	57	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:20	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:20	JMW	EPA 6020A
Boron	< 10	ug/L		02/21/23 08:55	5	10	02/22/23 16:20	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:24	JMW	EPA 6020A
Calcium	150	mg/L		02/21/23 08:55	5	0.20	02/22/23 10:24	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/21/23 08:55	5	4.0	02/22/23 10:24	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/21/23 08:55	5	2.0	02/22/23 10:24	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:20	JMW	EPA 6020A
Magnesium	47	mg/L		02/21/23 08:55	5	0.10	02/22/23 10:24	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/21/23 08:55	5	0.20	02/22/23 16:20	JMW	EPA 6020A
Molybdenum	3.3	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:24	JMW	EPA 6020A
Potassium	0.43	mg/L		02/21/23 08:55	5	0.10	02/22/23 10:24	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB03263-14
Name: G209
Matrix: Ground Water - Grab

Sampled: 02/15/23 13:12
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:24	JMW	EPA 6020A
Sodium	70	mg/L		02/21/23 08:55	5	0.10	02/22/23 10:24	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:20	JMW	EPA 6020A
Lithium	< 20	ug/L		02/21/23 08:55	1	20	02/22/23 14:03	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GB03263-16
Name: G213
Matrix: Ground Water - Grab

Sampled: 02/15/23 10:59
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	39	mg/L		02/20/23 14:05	10	10	02/20/23 14:05	CRD	EPA 300.0 REV 2.1
Fluoride	0.309	mg/L		02/20/23 13:47	1	0.250	02/20/23 13:47	CRD	EPA 300.0 REV 2.1
Sulfate	54	mg/L		02/20/23 14:05	10	10	02/20/23 14:05	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.79	Feet		02/15/23 10:59	1		02/15/23 10:59	FIELD	Field*
Dissolved oxygen, Field	6.0	mg/L		02/15/23 10:59	1		02/15/23 10:59	FIELD	Field*
Oxidation Reduction Potential	140	mV		02/15/23 10:59	1	-500	02/15/23 10:59	FIELD	Field*
pH, Field Measured	7.52	pH Units		02/15/23 10:59	1		02/15/23 10:59	FIELD	Field*
Specific Conductance, Field Measured	691.0	umhos/cm		02/15/23 10:59	1		02/15/23 10:59	FIELD	Field*
Temperature, Field Measured	13.4	°C		02/15/23 10:59	1		02/15/23 10:59	FIELD	Field*
Turbidity, Field Measured	104	NTU		02/15/23 10:59	1	0.00	02/15/23 10:59	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	250	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*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	510	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 16:35	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:31	JMW	EPA 6020A
Barium	55	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:35	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:35	JMW	EPA 6020A
Boron	< 10	ug/L		02/21/23 08:55	5	10	02/22/23 16:35	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:31	JMW	EPA 6020A
Calcium	68	mg/L		02/21/23 08:55	5	0.20	02/22/23 10:31	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/21/23 08:55	5	4.0	02/22/23 10:31	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/21/23 08:55	5	2.0	02/22/23 10:31	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:35	JMW	EPA 6020A
Magnesium	29	mg/L		02/21/23 08:55	5	0.10	02/22/23 10:31	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/21/23 08:55	5	0.20	02/22/23 16:35	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:31	JMW	EPA 6020A
Potassium	0.34	mg/L		02/21/23 08:55	5	0.10	02/22/23 10:31	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB03263-16
Name: G213
Matrix: Ground Water - Grab

Sampled: 02/15/23 10:59
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	1.4	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:31	JMW	EPA 6020A
Sodium	34	mg/L		02/21/23 08:55	5	0.10	02/22/23 10:31	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:35	JMW	EPA 6020A
Lithium	< 20	ug/L		02/21/23 08:55	1	20	02/22/23 14:04	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GB03263-17
Name: G215
Matrix: Ground Water - Grab

Sampled: 02/15/23 12:04
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	130	mg/L		02/20/23 15:17	25	25	02/20/23 15:17	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/20/23 14:59	1	0.250	02/20/23 14:59	CRD	EPA 300.0 REV 2.1
Sulfate	560	mg/L		02/20/23 15:36	100	100	02/20/23 15:36	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	14.32	Feet		02/15/23 12:04	1		02/15/23 12:04	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		02/15/23 12:04	1		02/15/23 12:04	FIELD	Field*
Oxidation Reduction Potential	-31.0	mV		02/15/23 12:04	1	-500	02/15/23 12:04	FIELD	Field*
pH, Field Measured	7.10	pH Units		02/15/23 12:04	1		02/15/23 12:04	FIELD	Field*
Specific Conductance, Field Measured	1980	umhos/cm		02/15/23 12:04	1		02/15/23 12:04	FIELD	Field*
Temperature, Field Measured	13.7	°C		02/15/23 12:04	1		02/15/23 12:04	FIELD	Field*
Turbidity, Field Measured	119	NTU		02/15/23 12:04	1	0.00	02/15/23 12:04	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	340	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*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1500	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 16:38	JMW	EPA 6020A
Arsenic	2.6	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:44	JMW	EPA 6020A
Barium	41	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:38	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:38	JMW	EPA 6020A
Boron	770	ug/L		02/21/23 08:55	5	10	02/22/23 16:38	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:44	JMW	EPA 6020A
Calcium	200	mg/L		02/21/23 08:55	5	0.20	02/22/23 10:44	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/21/23 08:55	5	4.0	02/22/23 10:44	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/21/23 08:55	5	2.0	02/22/23 10:44	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:38	JMW	EPA 6020A
Magnesium	89	mg/L		02/21/23 08:55	5	0.10	02/22/23 10:44	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/21/23 08:55	5	0.20	02/22/23 16:38	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:44	JMW	EPA 6020A
Potassium	4.1	mg/L		02/21/23 08:55	5	0.10	02/22/23 10:44	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB03263-17
Name: G215
Matrix: Ground Water - Grab

Sampled: 02/15/23 12:04
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:44	JMW	EPA 6020A
Sodium	90	mg/L		02/21/23 08:55	5	0.10	02/22/23 10:44	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:38	JMW	EPA 6020A
Lithium	< 20	ug/L		02/21/23 08:55	1	20	02/22/23 14:09	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GB03263-18
Name: G217
Matrix: Ground Water - Grab

Sampled: 02/15/23 17:08
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	93	mg/L		02/20/23 16:12	50	50	02/20/23 16:12	CRD	EPA 300.0 REV 2.1
Fluoride	0.300	mg/L		02/20/23 15:54	1	0.250	02/20/23 15:54	CRD	EPA 300.0 REV 2.1
Sulfate	310	mg/L		02/20/23 16:12	50	50	02/20/23 16:12	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	14.78	Feet		02/15/23 17:08	1		02/15/23 17:08	FIELD	Field*
Dissolved oxygen, Field	2.2	mg/L		02/15/23 17:08	1		02/15/23 17:08	FIELD	Field*
Oxidation Reduction Potential	13.0	mV		02/15/23 17:08	1	-500	02/15/23 17:08	FIELD	Field*
pH, Field Measured	7.20	pH Units		02/15/23 17:08	1		02/15/23 17:08	FIELD	Field*
Specific Conductance, Field Measured	1370	umhos/cm		02/15/23 17:08	1		02/15/23 17:08	FIELD	Field*
Temperature, Field Measured	15.0	°C		02/15/23 17:08	1		02/15/23 17:08	FIELD	Field*
Turbidity, Field Measured	67.4	NTU		02/15/23 17:08	1	0.00	02/15/23 17:08	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	290	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*
Soluble General Chemistry - PIA									
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 16:41	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:47	JMW	EPA 6020A
Barium	96	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:41	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:41	JMW	EPA 6020A
Boron	15	ug/L		02/21/23 08:55	5	10	02/22/23 16:41	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:47	JMW	EPA 6020A
Calcium	160	mg/L		02/21/23 08:55	5	0.20	02/22/23 10:47	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/21/23 08:55	5	4.0	02/22/23 10:47	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/21/23 08:55	5	2.0	02/22/23 10:47	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:41	JMW	EPA 6020A
Magnesium	57	mg/L		02/21/23 08:55	5	0.10	02/22/23 10:47	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/21/23 08:55	5	0.20	02/22/23 16:41	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:47	JMW	EPA 6020A
Potassium	0.43	mg/L		02/21/23 08:55	5	0.10	02/22/23 10:47	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB03263-18
Name: G217
Matrix: Ground Water - Grab

Sampled: 02/15/23 17:08
Received: 02/16/23 14:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 10:47	JMW	EPA 6020A
Sodium	63	mg/L		02/21/23 08:55	5	0.10	02/22/23 10:47	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/21/23 08:55	5	1.0	02/22/23 16:41	JMW	EPA 6020A
Lithium	< 20	ug/L		02/21/23 08:55	1	20	02/22/23 14:10	TJJ	EPA 6010B

Sample: GB03263-33
Name: NE RISER
Matrix: Ground Water - Grab

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

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	1200	mg/L		02/21/23 23:21	250	250	02/21/23 23:21	CRD	EPA 300.0 REV 2.1
Sulfate	8800	mg/L		02/21/23 23:39	1000	1000	02/21/23 23:39	CRD	EPA 300.0 REV 2.1
Field - PIA									
Dissolved oxygen, Field	2.4	mg/L		02/15/23 14:13	1		02/15/23 14:13	FIELD	Field*
Oxidation Reduction Potential	464	mV		02/15/23 14:13	1	-500	02/15/23 14:13	FIELD	Field*
pH, Field Measured	6.92	pH Units		02/15/23 14:13	1		02/15/23 14:13	FIELD	Field*
Specific Conductance, Field Measured	14800	umhos/cm		02/15/23 14:13	1		02/15/23 14:13	FIELD	Field*
Temperature, Field Measured	11.3	°C		02/15/23 14:13	1		02/15/23 14:13	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/15/23 14:13	1	0.00	02/15/23 14:13	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	150	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)	10000	mg/L	M	02/22/23 16:53	1	51	02/22/23 17:39	HRF	SM 2540C
Total Metals - PIA									
Calcium	560	mg/L		02/22/23 14:11	100	4.0	02/23/23 14:34	JMW	EPA 6020A
Magnesium	920	mg/L		02/22/23 14:11	100	2.0	02/23/23 19:31	JMW	EPA 6020A
Potassium	110	mg/L		02/22/23 14:11	5	0.10	02/23/23 12:22	JMW	EPA 6020A
Sodium	310	mg/L		02/22/23 14:11	5	0.10	02/23/23 12:22	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB03332-01
Name: G200
Matrix: Ground Water - Grab

Sampled: 02/16/23 13:00
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	50	mg/L		02/22/23 11:57	25	25	02/22/23 11:57	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/22/23 11:39	1	0.250	02/22/23 11:39	CRD	EPA 300.0 REV 2.1
Sulfate	100	mg/L		02/22/23 11:57	25	25	02/22/23 11:57	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	2.71	Feet		02/16/23 13:00	1		02/16/23 13:00	FIELD	Field*
Dissolved oxygen, Field	4.6	mg/L		02/16/23 13:00	1		02/16/23 13:00	FIELD	Field*
Oxidation Reduction Potential	126	mV		02/16/23 13:00	1	-500	02/16/23 13:00	FIELD	Field*
pH, Field Measured	6.65	pH Units		02/16/23 13:00	1		02/16/23 13:00	FIELD	Field*
Specific Conductance, Field Measured	902.0	umhos/cm		02/16/23 13:00	1		02/16/23 13:00	FIELD	Field*
Temperature, Field Measured	7.8	°C		02/16/23 13:00	1		02/16/23 13:00	FIELD	Field*
Turbidity, Field Measured	388	NTU		02/16/23 13:00	1	0.00	02/16/23 13:00	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	310	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*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	440	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		02/22/23 14:11	5	3.0	02/23/23 13:42	JMW	EPA 6020A
Arsenic	8.1	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:42	JMW	EPA 6020A
Barium	160	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:42	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 18:57	wjm	EPA 6020A
Boron	29	ug/L		02/22/23 14:11	5	10	02/27/23 07:52	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:42	JMW	EPA 6020A
Calcium	120	mg/L		02/22/23 14:11	5	0.20	02/23/23 13:42	JMW	EPA 6020A
Chromium	12	ug/L		02/22/23 14:11	5	4.0	02/23/23 13:42	JMW	EPA 6020A
Cobalt	7.6	ug/L		02/22/23 14:11	5	2.0	02/23/23 13:42	JMW	EPA 6020A
Lead	10	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:42	JMW	EPA 6020A
Magnesium	54	mg/L		02/22/23 14:11	5	0.10	02/23/23 18:57	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/22/23 14:11	5	0.20	02/23/23 13:42	JMW	EPA 6020A
Molybdenum	1.2	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:42	JMW	EPA 6020A
Potassium	1.9	mg/L		02/22/23 14:11	5	0.10	02/23/23 13:42	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB03332-01
Name: G200
Matrix: Ground Water - Grab

Sampled: 02/16/23 13:00
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	1.6	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:42	JMW	EPA 6020A
Sodium	65	mg/L		02/22/23 14:11	5	0.10	02/23/23 13:42	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:42	JMW	EPA 6020A
Lithium	< 20	ug/L		02/22/23 14:11	1	20	02/25/23 10:40	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GB03332-02
Name: G206D
Matrix: Ground Water - Grab

Sampled: 02/16/23 11:12
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	29	mg/L		02/22/23 12:33	10	10	02/22/23 12:33	CRD	EPA 300.0 REV 2.1
Fluoride	0.784	mg/L		02/22/23 12:15	1	0.250	02/22/23 12:15	CRD	EPA 300.0 REV 2.1
Sulfate	160	mg/L		02/22/23 12:51	100	100	02/22/23 12:51	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	29.69	Feet		02/16/23 11:12	1		02/16/23 11:12	FIELD	Field*
Dissolved oxygen, Field	4.6	mg/L		02/16/23 11:12	1		02/16/23 11:12	FIELD	Field*
Oxidation Reduction Potential	-95.0	mV		02/16/23 11:12	1	-500	02/16/23 11:12	FIELD	Field*
pH, Field Measured	7.53	pH Units		02/16/23 11:12	1		02/16/23 11:12	FIELD	Field*
Specific Conductance, Field Measured	1460	umhos/cm		02/16/23 11:12	1		02/16/23 11:12	FIELD	Field*
Temperature, Field Measured	9.6	°C		02/16/23 11:12	1		02/16/23 11:12	FIELD	Field*
Turbidity, Field Measured	53.1	NTU		02/16/23 11:12	1	0.00	02/16/23 11:12	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	410	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)	670	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		02/22/23 14:11	5	3.0	02/23/23 13:46	JMW	EPA 6020A
Arsenic	15	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:46	JMW	EPA 6020A
Barium	120	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:46	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 19:01	wjm	EPA 6020A
Boron	110	ug/L		02/22/23 14:11	5	10	02/27/23 07:56	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:46	JMW	EPA 6020A
Calcium	89	mg/L		02/22/23 14:11	5	0.20	02/23/23 13:46	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/22/23 14:11	5	4.0	02/23/23 13:46	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/22/23 14:11	5	2.0	02/23/23 13:46	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:46	JMW	EPA 6020A
Magnesium	27	mg/L		02/22/23 14:11	5	0.10	02/23/23 19:01	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/22/23 14:11	5	0.20	02/23/23 13:46	JMW	EPA 6020A
Molybdenum	19	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:46	JMW	EPA 6020A
Potassium	1.2	mg/L		02/22/23 14:11	5	0.10	02/23/23 13:46	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:46	JMW	EPA 6020A
Sodium	120	mg/L		02/22/23 14:11	5	0.10	02/23/23 13:46	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB03332-02
Name: G206D
Matrix: Ground Water - Grab

Sampled: 02/16/23 11:12
Received: 02/17/23 08:30
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 13:46	JMW	EPA 6020A
Lithium	< 20	ug/L		02/22/23 14:11	1	20	02/25/23 10:43	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GB03332-03
Name: G206
Matrix: Ground Water - Grab

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

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	23	mg/L		02/22/23 13:27	5	5.0	02/22/23 13:27	CRD	EPA 300.0 REV 2.1
Fluoride	0.382	mg/L		02/22/23 13:09	1	0.250	02/22/23 13:09	CRD	EPA 300.0 REV 2.1
Sulfate	140	mg/L		02/22/23 13:45	100	100	02/22/23 13:45	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	9.83	Feet		02/16/23 10:23	1		02/16/23 10:23	FIELD	Field*
Dissolved oxygen, Field	9.9	mg/L		02/16/23 10:23	1		02/16/23 10:23	FIELD	Field*
Oxidation Reduction Potential	188	mV		02/16/23 10:23	1	-500	02/16/23 10:23	FIELD	Field*
pH, Field Measured	7.43	pH Units		02/16/23 10:23	1		02/16/23 10:23	FIELD	Field*
Specific Conductance, Field Measured	811.0	umhos/cm		02/16/23 10:23	1		02/16/23 10:23	FIELD	Field*
Temperature, Field Measured	11.7	°C		02/16/23 10:23	1		02/16/23 10:23	FIELD	Field*
Turbidity, Field Measured	66.7	NTU		02/16/23 10:23	1	0.00	02/16/23 10:23	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	280	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*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	460	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		02/22/23 14:11	5	3.0	02/23/23 13:49	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:49	JMW	EPA 6020A
Barium	57	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:49	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 19:05	wjm	EPA 6020A
Boron	< 10	ug/L		02/22/23 14:11	5	10	02/27/23 07:59	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:49	JMW	EPA 6020A
Calcium	87	mg/L		02/22/23 14:11	5	0.20	02/23/23 13:49	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/22/23 14:11	5	4.0	02/23/23 13:49	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/22/23 14:11	5	2.0	02/23/23 13:49	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:49	JMW	EPA 6020A
Magnesium	32	mg/L		02/22/23 14:11	5	0.10	02/23/23 19:05	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/22/23 14:11	5	0.20	02/23/23 13:49	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:49	JMW	EPA 6020A
Potassium	0.37	mg/L		02/22/23 14:11	5	0.10	02/23/23 13:49	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB03332-03
Name: G206
Matrix: Ground Water - Grab

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

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:49	JMW	EPA 6020A
Sodium	47	mg/L		02/22/23 14:11	5	0.10	02/23/23 13:49	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 13:49	JMW	EPA 6020A
Lithium	< 20	ug/L		02/22/23 14:11	1	20	02/25/23 10:45	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GB03332-05
Name: G218
Matrix: Ground Water - Grab

Sampled: 02/16/23 13:12
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	100	mg/L		02/22/23 15:34	50	50	02/22/23 15:34	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/22/23 15:16	1	0.250	02/22/23 15:16	CRD	EPA 300.0 REV 2.1
Sulfate	300	mg/L		02/22/23 15:34	50	50	02/22/23 15:34	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	13.62	Feet		02/16/23 13:12	1		02/16/23 13:12	FIELD	Field*
Dissolved oxygen, Field	1.4	mg/L		02/16/23 13:12	1		02/16/23 13:12	FIELD	Field*
Oxidation Reduction Potential	2.90	mV		02/16/23 13:12	1	-500	02/16/23 13:12	FIELD	Field*
pH, Field Measured	7.12	pH Units		02/16/23 13:12	1		02/16/23 13:12	FIELD	Field*
Specific Conductance, Field Measured	1411	umhos/cm		02/16/23 13:12	1		02/16/23 13:12	FIELD	Field*
Temperature, Field Measured	10.9	°C		02/16/23 13:12	1		02/16/23 13:12	FIELD	Field*
Turbidity, Field Measured	95.9	NTU		02/16/23 13:12	1	0.00	02/16/23 13:12	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	310	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*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	920	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 14:23	JMW	EPA 6020A
Arsenic	2.6	ug/L		02/22/23 14:11	5	1.0	02/23/23 14:23	JMW	EPA 6020A
Barium	110	ug/L		02/22/23 14:11	5	1.0	02/23/23 14:23	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 19:20	wjm	EPA 6020A
Boron	10	ug/L		02/22/23 14:11	5	10	02/27/23 08:07	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 14:23	JMW	EPA 6020A
Calcium	160	mg/L		02/22/23 14:11	5	0.20	02/23/23 14:23	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/22/23 14:11	5	4.0	02/23/23 14:23	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/22/23 14:11	5	2.0	02/23/23 14:23	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 14:23	JMW	EPA 6020A
Magnesium	57	mg/L		02/22/23 14:11	5	0.10	02/23/23 19:20	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/22/23 14:11	5	0.20	02/23/23 14:23	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 14:23	JMW	EPA 6020A
Potassium	0.79	mg/L		02/22/23 14:11	5	0.10	02/23/23 14:23	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB03332-05
Name: G218
Matrix: Ground Water - Grab

Sampled: 02/16/23 13:12
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 14:23	JMW	EPA 6020A
Sodium	63	mg/L		02/22/23 14:11	5	0.10	02/23/23 14:23	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/22/23 14:11	5	1.0	02/23/23 14:23	JMW	EPA 6020A
Lithium	< 20	ug/L		02/22/23 14:11	1	20	02/25/23 10:46	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GB03332-22
Name: R201
Matrix: Ground Water - Grab

Sampled: 02/16/23 10:05
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	51	mg/L		02/23/23 17:40	50	50	02/23/23 17:40	CRD	EPA 300.0 REV 2.1
Fluoride	0.359	mg/L		02/23/23 17:22	1	0.250	02/23/23 17:22	CRD	EPA 300.0 REV 2.1
Sulfate	160	mg/L		02/23/23 17:40	50	50	02/23/23 17:40	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	2.78	Feet		02/16/23 10:05	1		02/16/23 10:05	FIELD	Field*
Dissolved oxygen, Field	2.4	mg/L		02/16/23 10:05	1		02/16/23 10:05	FIELD	Field*
Oxidation Reduction Potential	-15.0	mV		02/16/23 10:05	1	-500	02/16/23 10:05	FIELD	Field*
pH, Field Measured	7.09	pH Units		02/16/23 10:05	1		02/16/23 10:05	FIELD	Field*
Specific Conductance, Field Measured	1175	umhos/cm		02/16/23 10:05	1		02/16/23 10:05	FIELD	Field*
Temperature, Field Measured	8.5	°C		02/16/23 10:05	1		02/16/23 10:05	FIELD	Field*
Turbidity, Field Measured	5.10	NTU		02/16/23 10:05	1	0.00	02/16/23 10:05	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	400	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/28/23 10:36	1	10	02/28/23 10:36	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	750	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 11:11	JMW	EPA 6020A
Arsenic	3.6	ug/L		02/23/23 09:11	5	1.0	03/03/23 13:22	JMW	EPA 6020A
Barium	76	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:11	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 19:06	JMW	EPA 6020A
Boron	19	ug/L		02/23/23 09:11	5	10	03/02/23 11:11	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:11	JMW	EPA 6020A
Calcium	97	mg/L		02/23/23 09:11	5	0.20	03/02/23 11:11	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/23/23 09:11	5	4.0	03/02/23 11:11	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/23/23 09:11	5	2.0	03/02/23 11:11	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:11	JMW	EPA 6020A
Magnesium	42	mg/L		02/23/23 09:11	5	0.10	03/02/23 11:11	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/23/23 09:11	5	0.20	03/02/23 11:11	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:11	JMW	EPA 6020A
Potassium	0.84	mg/L		02/23/23 09:11	5	0.10	03/02/23 11:11	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB03332-22
Name: R201
Matrix: Ground Water - Grab

Sampled: 02/16/23 10:05
Received: 02/17/23 08:30
PO #: 1164124

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:11	JMW	EPA 6020A
Sodium	110	mg/L		02/23/23 09:11	5	0.10	03/02/23 11:11	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/23/23 09:11	5	1.0	03/02/23 11:11	JMW	EPA 6020A
Lithium	< 20	ug/L		02/23/23 09:11	1	20	02/25/23 11:07	TJJ	EPA 6010B

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B326084 - No Prep - SM 2540C									
Blank (B326084-BLK1)				Prepared & Analyzed: 02/17/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B326084-BS1)				Prepared & Analyzed: 02/17/23					
Solids - total dissolved solids (TDS)	1000	mg/L		1000		100	84.9-109		
Batch B326085 - No Prep - SM 2540C									
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		
Batch B326203 - SW 3015 - EPA 6010B									
Blank (B326203-BLK1)				Prepared: 02/20/23 Analyzed: 02/22/23					
Lithium	< 20	ug/L							
LCS (B326203-BS1)				Prepared: 02/20/23 Analyzed: 02/22/23					
Lithium	512	ug/L		555.6		92	80-120		
Batch B326203 - SW 3015 - EPA 6020A									
Blank (B326203-BLK1)				Prepared: 02/20/23 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 (B326203-BS1)				Prepared: 02/20/23 Analyzed: 02/23/23					
Antimony	550	ug/L		555.6		99	80-120		
Arsenic	564	ug/L		555.6		101	80-120		
Barium	560	ug/L		555.6		101	80-120		
Beryllium	549	ug/L		555.6		99	80-120		
Boron	556	ug/L		555.6		100	80-120		
Cadmium	540	ug/L		555.6		97	80-120		
Calcium	5.76	mg/L		5.556		104	80-120		
Chromium	533	ug/L		555.6		96	80-120		

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B326203-BS1)				Prepared: 02/20/23 Analyzed: 02/23/23					
Cobalt	534	ug/L		555.6		96	80-120		
Lead	510	ug/L		555.6		92	80-120		
Magnesium	5.47	mg/L		5.556		98	80-120		
Mercury	54.4	ug/L		55.56		98	80-120		
Molybdenum	540	ug/L		555.6		97	80-120		
Potassium	5.70	mg/L		5.556		103	80-120		
Selenium	532	ug/L		555.6		96	80-120		
Sodium	5.55	mg/L		5.556		100	80-120		
Thallium	537	ug/L		555.6		97	80-120		
Batch B326266 - No Prep - SM 2540C									
Blank (B326266-BLK1)				Prepared & Analyzed: 02/20/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
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		
Solids - total dissolved solids (TDS)	923	mg/L		1000		92	84.9-109		
Batch B326312 - SW 3015 - EPA 6010B									
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		
Batch B326312 - SW 3015 - EPA 6020A									
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							
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		

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B326312-BS1)				Prepared: 02/21/23 Analyzed: 02/22/23					
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		
Batch B326412 - No Prep - SM 2540C									
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		
Batch B326429 - IC No Prep - EPA 300.0 REV 2.1									
Calibration Blank (B326429-CCB1)				Prepared & Analyzed: 02/20/23					
Fluoride	0.00	mg/L							
Chloride	0.0986	mg/L							
Sulfate	0.00	mg/L							
Calibration Check (B326429-CCV1)				Prepared & Analyzed: 02/20/23					
Chloride	4.63	mg/L		5.000		93	90-110		
Sulfate	4.89	mg/L		5.000		98	90-110		
Fluoride	5.05	mg/L		5.000		101	90-110		
Batch B326430 - IC No Prep - EPA 300.0 REV 2.1									
Calibration Blank (B326430-CCB1)				Prepared & Analyzed: 02/20/23					
Fluoride	0.00	mg/L							
Chloride	0.00	mg/L							
Sulfate	0.00	mg/L							
Calibration Check (B326430-CCV1)				Prepared & Analyzed: 02/20/23					
Fluoride	5.01	mg/L		5.000		100	90-110		
Chloride	4.92	mg/L		5.000		98	90-110		
Sulfate	4.96	mg/L		5.000		99	90-110		
Batch B326498 - IC No Prep - EPA 300.0 REV 2.1									
Calibration Blank (B326498-CCB1)				Prepared & Analyzed: 02/21/23					
Chloride	0.0695	mg/L							
Sulfate	0.00	mg/L							
Calibration Blank (B326498-CCB2)				Prepared & Analyzed: 02/21/23					
Sulfate	0.00	mg/L							

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Calibration Blank (B326498-CCB2)				Prepared & Analyzed: 02/21/23					
Chloride	0.00	mg/L							
Calibration Check (B326498-CCV1)				Prepared & Analyzed: 02/21/23					
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					
Sulfate	4.87	mg/L		5.000		97	90-110		
Chloride	4.90	mg/L		5.000		98	90-110		
Batch B326510 - SW 3015 - EPA 6010B									
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		
Batch B326510 - SW 3015 - EPA 6020A									
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		
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		

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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					
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		
Batch B326524 - No Prep - SM 2540C									
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		
Batch B326527 - No Prep - SM 2540C									
Blank (B326527-BLK1)				Prepared & Analyzed: 02/22/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B326527-BS1)				Prepared & Analyzed: 02/22/23					
Solids - total dissolved solids (TDS)	1010	mg/L		1000		101	84.9-109		
Duplicate (B326527-DUP1)	**Sample: GB03263-33**			Prepared & Analyzed: 02/22/23					
Solids - total dissolved solids (TDS)	11200	mg/L	M		10200			9	5
Batch B326575 - SW 3015 - EPA 6010B									
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		
Batch B326575 - SW 3015 - EPA 6020A									
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					
Antimony	521	ug/L		555.6		94	80-120		
Arsenic	526	ug/L		555.6		95	80-120		

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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					
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		
Batch B326599 - IC No Prep - EPA 300.0 REV 2.1									
Calibration Blank (B326599-CCB1)				Prepared & Analyzed: 02/22/23					
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.00	mg/L							
Calibration Check (B326599-CCV1)				Prepared & Analyzed: 02/22/23					
Chloride	4.92	mg/L		5.000		98	90-110		
Sulfate	4.95	mg/L		5.000		99	90-110		
Fluoride	5.24	mg/L		5.000		105	90-110		
Batch B326721 - IC No Prep - EPA 300.0 REV 2.1									
Calibration Blank (B326721-CCB1)				Prepared & Analyzed: 02/23/23					
Sulfate	0.00	mg/L							
Chloride	0.226	mg/L							
Fluoride	0.00	mg/L							
Calibration Check (B326721-CCV1)				Prepared & Analyzed: 02/23/23					
Fluoride	5.08	mg/L		5.000		102	90-110		
Chloride	4.87	mg/L		5.000		97	90-110		
Sulfate	4.89	mg/L		5.000		98	90-110		
Batch B326745 - No Prep - SM 2320B 1997									
Blank (B326745-BLK1)				Prepared & Analyzed: 02/24/23					
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
Alkalinity - carbonate as CaCO3	< 2.0	mg/L							
Blank (B326745-BLK2)				Prepared & Analyzed: 02/24/23					
Alkalinity - carbonate as CaCO3	< 2.0	mg/L							
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
Blank (B326745-BLK3)				Prepared & Analyzed: 02/24/23					
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
Alkalinity - carbonate as CaCO3	< 2.0	mg/L							
Duplicate (B326745-DUP3)	**Sample: GB03263-16**			Prepared & Analyzed: 02/24/23					

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (B326745-DUP3)	**Sample: GB03263-16**			Prepared & Analyzed: 02/24/23					
Alkalinity - bicarbonate as CaCO3	238	mg/L			250			5	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10

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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.

Gail J Schindler

Certified by: Gail Schindler, Project Manager

ANALYTICAL REPORT

March 29, 2023

Revised Report

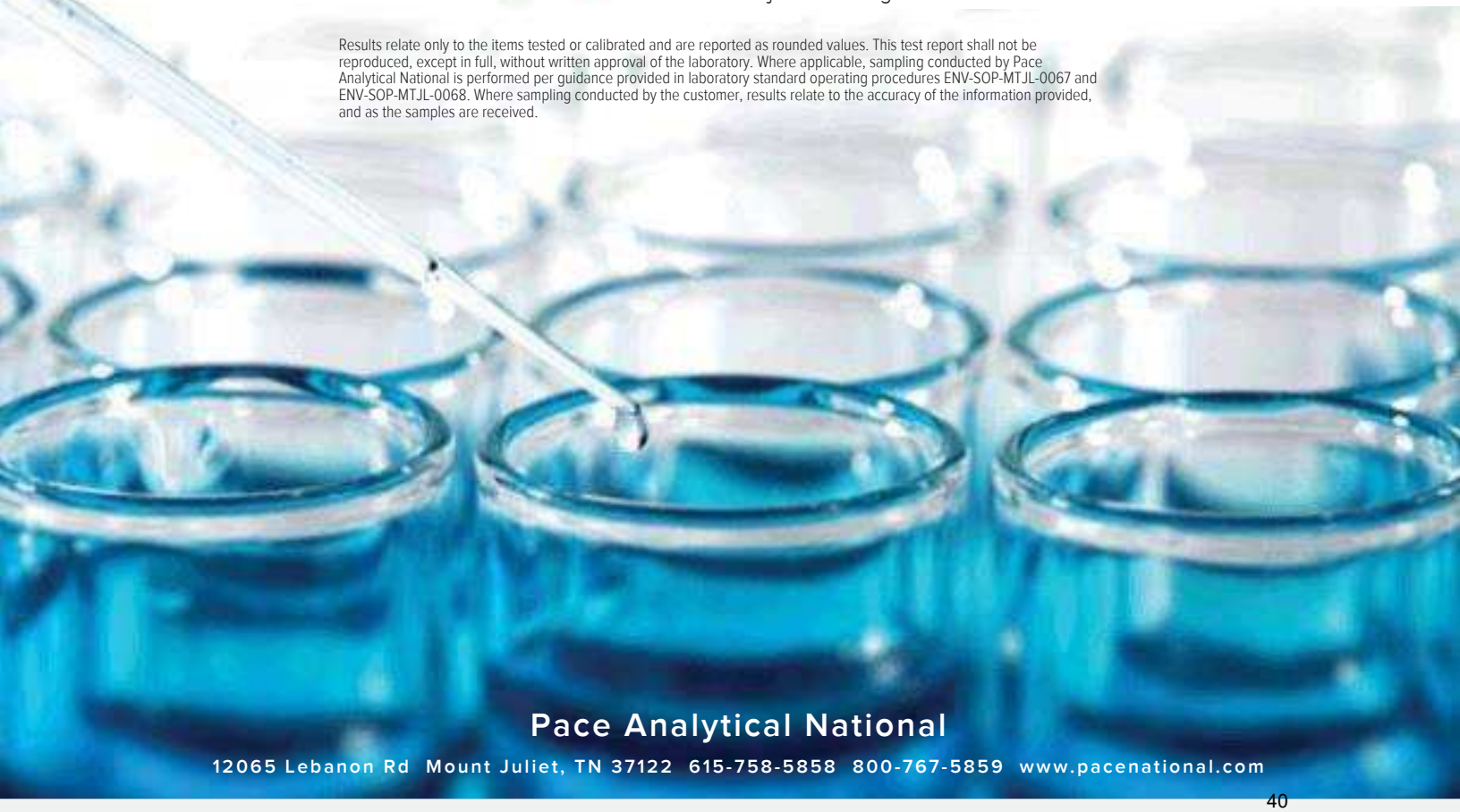
Pace IR - Peoria, IL

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
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.



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SAMPLE SUMMARY

G200 L1590063-01 Non-Potable Water

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

G206D L1590063-02 Non-Potable Water

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

G206 L1590063-03 Non-Potable Water

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

G218 L1590063-04 Non-Potable Water

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

G270 L1590063-05 Non-Potable Water

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

G271 L1590063-06 Non-Potable Water

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

SAMPLE SUMMARY

G273 L1590063-07 Non-Potable Water

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

G279 L1590063-08 Non-Potable Water

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

G280 L1590063-09 Non-Potable Water

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

G281 L1590063-10 Non-Potable Water

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

G306 L1590063-11 Non-Potable Water

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

G308 L1590063-12 Non-Potable Water

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

SAMPLE SUMMARY

G310 L1590063-13 Non-Potable Water

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

G313 L1590063-14 Non-Potable Water

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

G314D L1590063-15 Non-Potable Water

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

G314 L1590063-16 Non-Potable Water

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

G316 L1590063-17 Non-Potable Water

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

R201 L1590063-18 Non-Potable Water

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

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All 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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.83		0.552	0.665	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

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Collected date/time: 02/16/23 10:23 L1590063

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.409	J	0.240	0.442	03/23/2023 14:27	WG2025500
(T) Barium	*85.9*			*30.0-143*	*03/23/2023 14:27*	WG2025500
(T) Yttrium	*94.9*			*30.0-136*	*03/23/2023 14:27*	WG2025500

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.499	J	0.287	0.511	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.0904	U	0.157	0.256	03/15/2023 10:22	WG2019014
(T) Barium-133	*88.7*			*30.0-143*	*03/15/2023 10:22*	WG2019014

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.165	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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.200	U	0.379	0.652	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

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

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Collected date/time: 03/16/23 14:57 L1590063

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.0573	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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.199	U	0.334	0.589	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.434	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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.226	U	0.362	0.612	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

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

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Collected date/time: 03/16/23 11:27 L1590063

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.798	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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.000	U	0.403	0.806	03/23/2023 14:27	WG2019014

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	-0.0735	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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

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Collected date/time: 03/16/23 10:25 L1590063

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.140	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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.202	U	0.362	0.626	03/24/2023 10:08	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Method Blank (MB)

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

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	0.0480	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	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*							

Radiochemistry by Method 904/9320

Method Blank (MB)

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

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	0.269	J	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	U	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*							

WG2019014 QUALITY CONTROL SUMMARY

Radiochemistry by Method SM7500Ra B-M

L1590063-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3902467-1 03/15/23 10:22

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	-0.0100	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 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	0.226	0.234	0.298	-0.0426	0.277	0.298	1	200	0.740	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 pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
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

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	0.0150	19.8	22.1	99.1	111	1	75.0-125			11.0		20
(T) Barium-133		*84.2*			*87.8*	*82.4*							

Method Blank (MB)

(MB) R3902489-1 03/16/23 23:52

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.000	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 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	0.0779	0.187	0.315	0.153	0.212	0.315	1	64.9	0.265	J	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 pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
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

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	0.0767	22.0	22.2	109	110	1	75.0-125			0.861		20
(T) Barium-133		*98.8*			*87.3*	*89.1*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

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

Report To:	Subcontract 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

J031

LF900063

LAB USE ONLY

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226	Requested Analysis: Radium 228	
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	[illegible]	2/23/23 1225	[illegible] 2/28/23	1030	Needs reported as 226, 228 and also combined 226/228
2					Include QC summary and edd
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.

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	CT.18	
RAD Screen <0.5 mR/hr:	Y N		

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Workorder: GB03506 **Workorder Name:** Vistra - Coffeen

Owner Received Date: 2/16/2023 **Results Requ By:** 3/16/2023

Report To:	Subcontract 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

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226	Requested Analysis: Radium 228	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~~ HF 2/28
10									

U590063

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[signature]	2/23/23 0925			Needs reported as 226, 228 and also combined 226/228
2					
3			[signature]	2/28/23 1030	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.

LR910063

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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 - 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		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** [X] **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.

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103

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

LR59003

Pace Analytical

ANALYTICAL REPORT

March 28, 2023

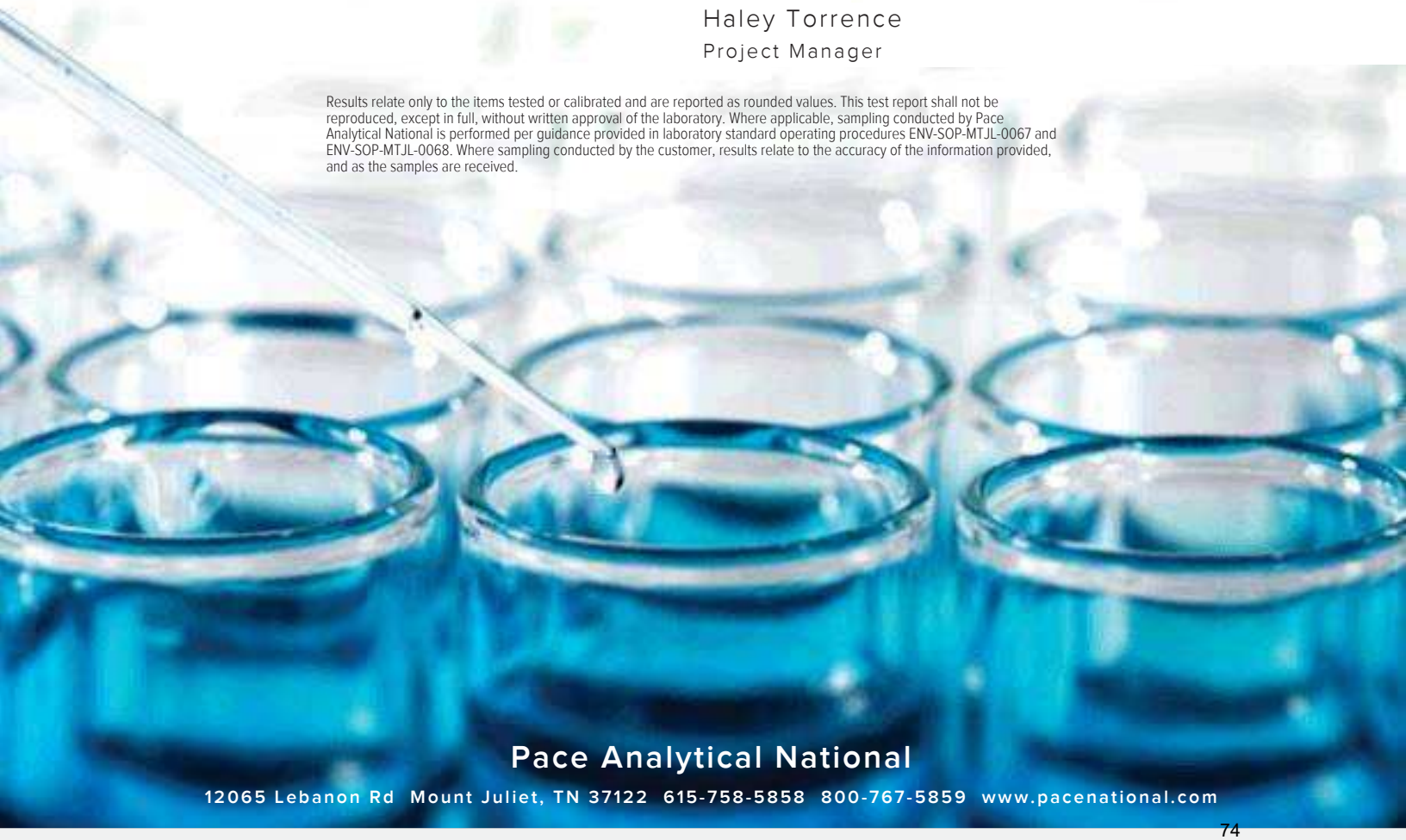
Pace IR - Peoria, IL

Sample Delivery Group:	L1590066
Samples Received:	02/28/2023
Project Number:	GB03507
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.



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SAMPLE SUMMARY

G151 L1590066-01 Non-Potable Water

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

G152 L1590066-02 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				02/14/23 12:17	02/28/23 10:30	
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

G153 L1590066-03 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				02/14/23 13:10	02/28/23 10:30	
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	03/16/23 23:52	RGT	Mt. Juliet, TN

G154 L1590066-04 Non-Potable Water

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

G155 L1590066-05 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				02/14/23 15:08	02/28/23 10:30	
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 11:39	RGT	Mt. Juliet, TN

G212 L1590066-06 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				02/14/23 16:09	02/28/23 10:30	
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

SAMPLE SUMMARY

G404 L1590066-07 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		02/14/23 15:50	02/28/23 10:30

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 11:39	RGT	Mt. Juliet, TN

G405 L1590066-08 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		02/14/23 16:51	02/28/23 10:30

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 11:39	RGT	Mt. Juliet, TN

G406 L1590066-09 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		02/14/23 13:36	02/28/23 10:30

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 11:39	RGT	Mt. Juliet, TN

G407 L1590066-10 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		02/14/23 12:28	02/28/23 10:30

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	WG2020910	1	03/15/23 11:37	03/24/23 10:08	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

G410 L1590066-11 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		02/14/23 11:23	02/28/23 10:30

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	WG2020910	1	03/15/23 11:37	03/24/23 10:08	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

G411 L1590066-12 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		02/14/23 14:43	02/28/23 10:30

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	WG2020910	1	03/15/23 11:37	03/24/23 10:08	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

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All 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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.389	J	0.316	0.582	03/24/2023 10:08	WG2027048
(T) Barium	*86.1*			*30.0-143*	*03/24/2023 10:08*	WG2027048
(T) Yttrium	*95.3*			*30.0-136*	*03/24/2023 10:08*	WG2027048

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.389	J	0.361	0.689	03/24/2023 10:08	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	-0.0663	U	0.174	0.369	03/17/2023 11:38	WG2020909
(T) Barium-133	*78.0*			*30.0-143*	*03/17/2023 11:38*	WG2020909

G152 SAMPLE RESULTS - 02

Collected date/time: 02/14/23 12:17 L1590066

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.97		0.406	0.709	03/24/2023 10:08	WG2027048
(T) Barium	*75.5*			*30.0-143*	*03/24/2023 10:08*	WG2027048
(T) Yttrium	*109*			*30.0-136*	*03/24/2023 10:08*	WG2027048

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.97		0.433	0.773	03/24/2023 10:08	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.00788	U	0.151	0.309	03/17/2023 11:38	WG2020909
(T) Barium-133	*80.5*			*30.0-143*	*03/17/2023 11:38*	WG2020909

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.08		0.392	0.706	03/24/2023 10:08	WG2027048
(T) Barium	*84.3*			*30.0-143*	*03/24/2023 10:08*	WG2027048
(T) Yttrium	*105*			*30.0-136*	*03/24/2023 10:08*	WG2027048

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	2.43		0.679	0.804	03/24/2023 10:08	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	1.35		0.554	0.385	03/16/2023 23:52	WG2020909
(T) Barium-133	*38.6*			*30.0-143*	*03/16/2023 23:52*	WG2020909

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.0252	U	0.275	0.520	03/24/2023 10:08	WG2027048
(T) Barium	*89.1*			*30.0-143*	*03/24/2023 10:08*	WG2027048
(T) Yttrium	*92.2*			*30.0-136*	*03/24/2023 10:08*	WG2027048

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.170	U	0.353	0.609	03/24/2023 10:08	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.170	J	0.222	0.317	03/17/2023 11:38	WG2020909
(T) Barium-133	*88.8*			*30.0-143*	*03/17/2023 11:38*	WG2020909

G155 SAMPLE RESULTS - 05
Collected date/time: 02/14/23 15:08 L1590066

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.925		0.240	0.422	03/24/2023 10:08	WG2027048
(T) Barium	*84.8*			*30.0-143*	*03/24/2023 10:08*	WG2027048
(T) Yttrium	*94.2*			*30.0-136*	*03/24/2023 10:08*	WG2027048

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.02		0.316	0.543	03/24/2023 10:08	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.0957	U	0.205	0.341	03/17/2023 11:39	WG2020909
(T) Barium-133	*85.9*			*30.0-143*	*03/17/2023 11:39*	WG2020909

G212 SAMPLE RESULTS - 06
Collected date/time: 02/14/23 16:08 L1590066

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.0474	U	0.201	0.387	03/24/2023 10:08	WG2027048
(T) Barium	*88.5*			*30.0-143*	*03/24/2023 10:08*	WG2027048
(T) Yttrium	*103*			*30.0-136*	*03/24/2023 10:08*	WG2027048

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.202	J	0.287	0.467	03/24/2023 10:08	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.202	J	0.205	0.262	03/17/2023 11:38	WG2020909
(T) Barium-133	*92.8*			*30.0-143*	*03/17/2023 11:38*	WG2020909

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.0290	U	0.376	0.706	03/24/2023 10:08	WG2027048
(T) Barium	*72.4*			*30.0-143*	*03/24/2023 10:08*	WG2027048
(T) Yttrium	*98.1*			*30.0-136*	*03/24/2023 10:08*	WG2027048

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.00628	U	0.404	0.761	03/24/2023 10:08	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.00628	U	0.148	0.284	03/17/2023 11:39	WG2020909
(T) Barium-133	*103*			*30.0-143*	*03/17/2023 11:39*	WG2020909

G405 SAMPLE RESULTS - 08

Collected date/time: 02/14/23 16:51 L1590066

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.581		0.279	0.509	03/24/2023 10:08	WG2027048
(T) Barium	*81.5*			*30.0-143*	*03/24/2023 10:08*	WG2027048
(T) Yttrium	*93.1*			*30.0-136*	*03/24/2023 10:08*	WG2027048

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.856		0.339	0.542	03/24/2023 10:08	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.274		0.192	0.186	03/17/2023 11:39	WG2020909
(T) Barium-133	*95.4*			*30.0-143*	*03/17/2023 11:39*	WG2020909

G406 SAMPLE RESULTS - 09

Collected date/time: 02/14/23 13:36 L1590066

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.182	U	0.287	0.547	03/24/2023 10:08	WG2027048
(T) Barium	*80.2*			*30.0-143*	*03/24/2023 10:08*	WG2027048
(T) Yttrium	*97.3*			*30.0-136*	*03/24/2023 10:08*	WG2027048

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.0767	U	0.335	0.615	03/24/2023 10:08	WG2020909

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.0767	U	0.173	0.282	03/17/2023 11:39	WG2020909
(T) Barium-133	*98.8*			*30.0-143*	*03/17/2023 11:39*	WG2020909

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.633	J	0.378	0.689	03/24/2023 10:08	WG2027048
(T) Barium	*78.8*			*30.0-143*	*03/24/2023 10:08*	WG2027048
(T) Yttrium	*84.6*			*30.0-136*	*03/24/2023 10:08*	WG2027048

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.745	J	0.429	0.758	03/24/2023 10:08	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.112	U	0.203	0.315	03/16/2023 17:36	WG2020910
(T) Barium-133	*94.8*			*30.0-143*	*03/16/2023 17:36*	WG2020910

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.775		0.301	0.541	03/24/2023 10:08	WG2027048
(T) Barium	*84.6*			*30.0-143*	*03/24/2023 10:08*	WG2027048
(T) Yttrium	*93.9*			*30.0-136*	*03/24/2023 10:08*	WG2027048

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.23		0.434	0.636	03/24/2023 10:08	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.453		0.313	0.334	03/16/2023 17:36	WG2020910
(T) Barium-133	*91.6*			*30.0-143*	*03/16/2023 17:36*	WG2020910

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.0297	U	0.272	0.517	03/24/2023 10:08	WG2027048
(T) Barium	*75.5*			*30.0-143*	*03/24/2023 10:08*	WG2027048
(T) Yttrium	*114*			*30.0-136*	*03/24/2023 10:08*	WG2027048

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.282	J	0.376	0.613	03/24/2023 10:08	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.282	J	0.260	0.330	03/16/2023 17:36	WG2020910
(T) Barium-133	*97.9*			*30.0-143*	*03/16/2023 17:36*	WG2020910

Method Blank (MB)

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

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	0.269	J	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	U	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*							

Method Blank (MB)

(MB) R3902489-1 03/16/23 23:52

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.000	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 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	0.0779	0.187	0.315	0.153	0.212	0.315	1	64.9	0.265	J	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 pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
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

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	0.0767	22.0	22.2	109	110	1	75.0-125			0.861		20
(T) Barium-133		*98.8*			*87.3*	*89.1*							

Radiochemistry by Method SM7500Ra B-M

Method Blank (MB)

(MB) R3904817-1 03/16/23 17:36

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-226	-0.00670	U	0.0428	0.0840
(T) Barium-133	*106*		*106*	

L1590066-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1590066-10 03/16/23 17:36 • (DUP) R3904817-5 03/16/23 17:36

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	0.112	0.203	0.315	0.105	0.181	0.315	1	6.19	0.0246	J	20	3
(T) Barium-133	*94.8*			*92.8*	*92.8*							

Laboratory Control Sample (LCS)

(LCS) R3904817-2 03/16/23 17:36

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.96	99.0	80.0-120	
(T) Barium-133			*112*		

L1590072-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1590072-13 03/16/23 17:37 • (MS) R3904817-3 03/16/23 17:36 • (MSD) R3904817-4 03/16/23 17:36

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	0.0518	18.5	18.9	92.3	94.0	1	75.0-125			1.77		20
(T) Barium-133		*83.4*			*101*	*100*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Workorder: GB03507 **Workorder Name:** Vistra - Coffeen

Owner Received Date: 2/15/2023

Results Requ By: 3/16/2023

Report To:	Subcontract 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

J032

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226	Requested Analysis: Radium 228	LAB USE ONLY
1	G151	GRAB	2/14/2023 16:10	GB03507-01	GW		X	X	-01
2	G152	GRAB	2/14/2023 12:17	GB03507-02	GW		X	X	-02
3	G153	GRAB	2/14/2023 13:10	GB03507-03	GW		X	X	-03
4	G154	GRAB	2/14/2023 14:10	GB03507-04	GW		X	X	-04
5	G155	GRAB	2/14/2023 15:08	GB03507-05	GW		X	X	-05
6	G212	GRAB	2/14/2023 16:09	GB03507-06	GW		X	X	-06
7	G404	GRAB	2/14/2023 15:50	GB03507-07	GW		X	X	-07
8	G405	GRAB	2/14/2023 16:51	GB03507-08	GW		X	X	-08
9	G406	GRAB	2/14/2023 13:36	GB03507-09	GW		X	X	-09
10	G407	GRAB	2/14/2023 12:28	GB03507-10	GW		X	X	-10

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[signature]	2/23/23 1225	[signature] 2/28/23	1030	Needs reported as 226, 228 and also combined 226/228 Include QC summary and edd
2					
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.

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
RAD Screen <0.5 mR/hr: Y N
If Applicable
VOA Zero Headspace: Y N
Pres.Correct/Check: Y N
CT. 12

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Workorder: GB03507 **Workorder Name:** Vistra - Coffeen **Owner Received Date:** 2/14/2023 **Results Requ By:** 3/15/2023

Report To:	Subcontract 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

LF9000d0

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226	Requested Analysis: Radium 228	LAB USE ONLY
1	G410	GRAB	2/14/2023 11:23	GB03507-11	GW		X	X	-1
2	G411	GRAB	2/14/2023 14:43	GB03507-12	GW		X	X	-2
3									
4									
5									
6									
7									
8									
9									
10									

Transfers	Released By	Date/Time	Reveived By	Date/Time	Comments
1	[signature]	2/23/23 1225			Needs reported as 226, 228 and also combined 226/228
2					
3			Hailey Baker	2/28/23 [illegible]	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.

LF590006

98

Pace Analytical
www.pacelabs.com

Ship to :
Pace Analytical Services, LLC
1638 Roseytown Rd - Suites 2,3,4
Greensburg, PA 15601

(724)850-5600

INTER_LABORATORY WORK ORDER # GB03507
(To be complete by sending lab)

Sending Project No:	GB03507
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	2/22/2023
REQUESTED COMPLETION DATE:	3/14/2023

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		12		12	$87.30	$1,047.60
RadiUm 228		12		12	$87.30	$1,047.60
		1		1		$0.00
					TOTAL	$2,095.20

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	$2,095.20	$1,676.16	$419.04
* Custom Revenue Allocation		TOTAL	$1,676.16	$419.04

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: [ ] Yes [X] No

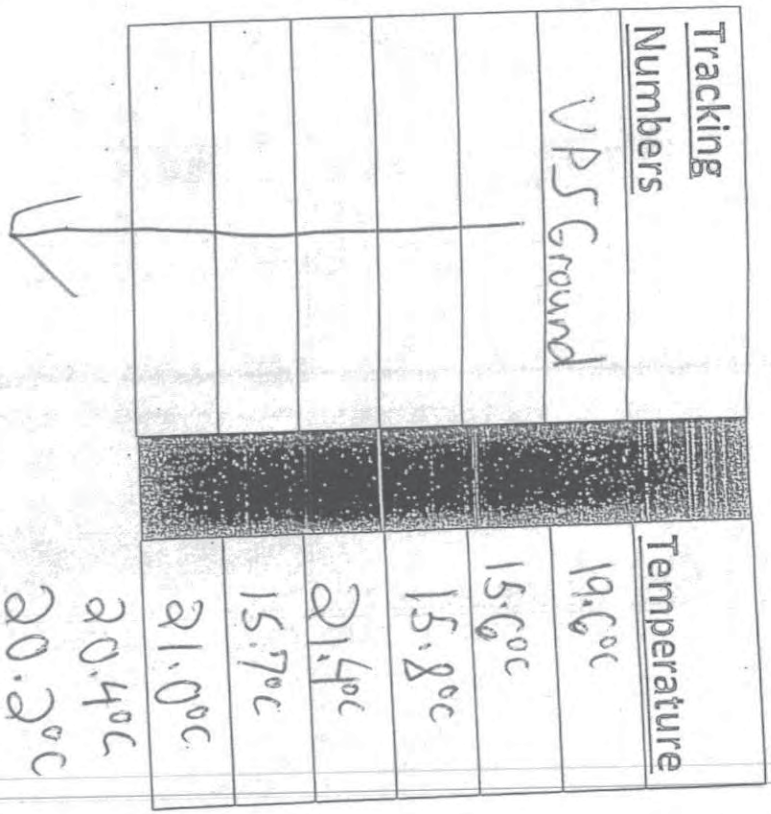
CONFIRMATION OF WORK COMPLETED

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.

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103



Tracking Numbers	Temperature
UPS 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

Pace Analytical

ANALYTICAL REPORT

March 28, 2023

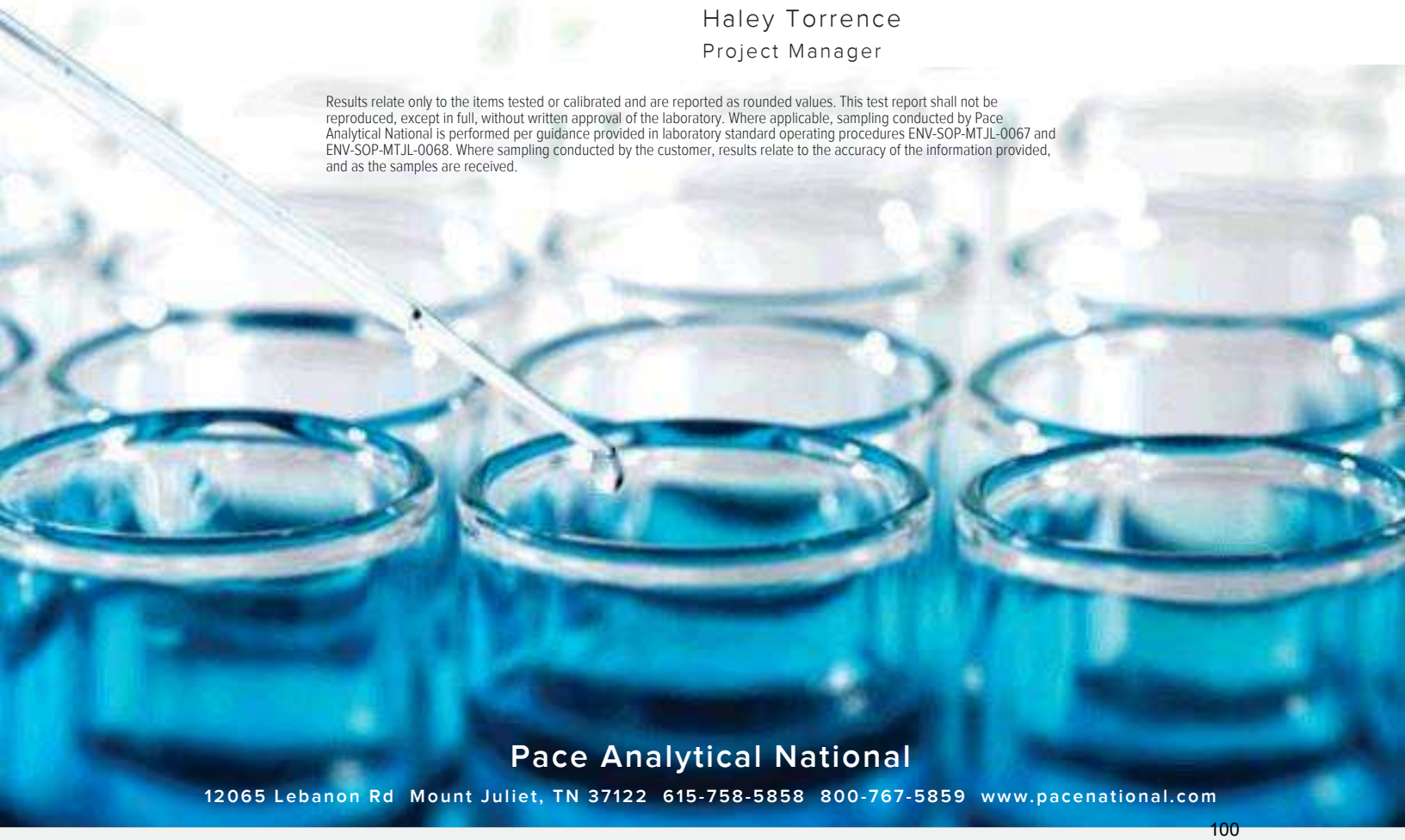
Pace IR - Peoria, IL

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.



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SAMPLE SUMMARY

G209 L1590072-01 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		02/15/23 13:12	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 17:36	RGT	Mt. Juliet, TN

G213 L1590072-02 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		02/15/23 10:59	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 17:36	RGT	Mt. Juliet, TN

G215 L1590072-03 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		02/15/23 12:04	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 17:36	RGT	Mt. Juliet, TN

G217 L1590072-04 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		02/15/23 17:08	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 17:36	RGT	Mt. Juliet, TN

G276 L1590072-05 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		02/15/23 15:45	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 17:36	RGT	Mt. Juliet, TN

G301 L1590072-06 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		02/15/23 13:30	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 17:36	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

G302 L1590072-07 Non-Potable Water

Collected by | Collected date/time 02/15/23 12:30 | Received date/time 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 17:36	RGT	Mt. Juliet, TN

G303 L1590072-08 Non-Potable Water

Collected by | Collected date/time 02/15/23 15:52 | Received date/time 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 17:36	RGT	Mt. Juliet, TN

G305 L1590072-09 Non-Potable Water

Collected by | Collected date/time 02/15/23 14:52 | Received date/time 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

G307 L1590072-10 Non-Potable Water

Collected by | Collected date/time 02/15/23 15:24 | Received date/time 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

G307D L1590072-11 Non-Potable Water

Collected by | Collected date/time 02/15/23 16:25 | Received date/time 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

G315 L1590072-12 Non-Potable Water

Collected by | Collected date/time 02/15/23 11:19 | Received date/time 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

SAMPLE SUMMARY

G401 L1590072-13 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				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

G402 L1590072-14 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				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

G403 L1590072-15 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				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

G1001 L1590072-16 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				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

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All 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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.03		0.423	0.725	03/27/2023 10:20	WG2020910

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

G213 SAMPLE RESULTS - 02
Collected date/time: 03/15/23 10:58 L1590072

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

G276 SAMPLE RESULTS - 05

Collected date/time: 03/15/23 15:45 L1590072

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

G302 SAMPLE RESULTS - 07
Collected date/time: 02/15/23 12:30 L1590072

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

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

G303 SAMPLE RESULTS - 08
Collected date/time: 02/15/23 15:53 L1590072

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

G307 SAMPLE RESULTS - 10

Collected date/time: 02/15/23 15:24 L1590072

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

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

G403 SAMPLE RESULTS - 15

Collected date/time: 02/15/23 13:03 L1590072

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

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

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

VISTRA - COFFEEN
COFFEEN 1Q23

GB00992

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 6

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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	standard	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES | **GROUND WATER** | DRINKING WATER
UST | RCRA | OTHER

Site Location **STATE:** IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G101																										
2	G102		G	2/14/23	1550		7																				
3	G103			2/14/23	1425		7																				
4	G105			2/14/23	1311		7																				
5	G106			2/14/23	1221		7																				
6	G107			2/14/23	1106		4																				
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: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-Q1-2023	Joseph R Reed	2/15/23	700							
					2/15/23	1600	2.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed DATE Signed (MM/DD/YY): 2/15/23

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:

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 #:	

REGULATORY AGENCY

NPDES | **GROUND WATER** | DRINKING WATER
UST | RCRA | OTHER

Site Location **STATE:** IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G125																										
2	G126																										
3	G151		G	2/14/23	1610		6																				
4	G152			2/14/23	1217		4																				
5	G153			2/14/23	1310		4																				
6	G154			2/14/23	1410		6																				
7	G155			2/14/23	1508		4																				
8	G200																										
9	G206																										
10	G206D																										
11	G207																										
12	G208		G	2/14/23	1435		6																				
13	G209																										
14	G210		G	2/14/23	1328		6																				
15	G211																										
16	G212		G	2/14/23	1609		7																				

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

SIGNATURE of SAMPLER: Joseph R Reed

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

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:

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 #:	

REGULATORY AGENCY

NPDES **GROUND WATER** DRINKING WATER
UST RCRA OTHER

Site Location *STATE:* IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G213																										
2	G214		G	2/14/23	1129		6																				
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
COF-Q1-2023	Joseph R Reed	2/15/23	700		2/15/23	1600

SAMPLE CONDITIONS			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joseph R Reed

SIGNATURE of SAMPLER: Joseph R Reed DATE Signed (MM/DD/YY): 2/15/23

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:

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 #:	

REGULATORY AGENCY

NPDES | **GROUND WATER** | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G316																									
2	G401																									
3	G402																									
4	G403																									
5	G404		G	2/14/23	1550		5																			
6	G405			2/14/23	1651		5																			
7	G406			2/14/23	1336		5																			
8	G407			2/14/23	1228		5																			
9	G410			2/14/23	1123		5																			
10	G411			2/14/23	1443		5																			
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: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-Q1-2023	Joseph R Reed	2/15/23	700		2/15/23	1600	2.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed DATE Signed (MM/DD/YY): 2/15/23

2/15/23

VISTRA - COFFEEN GB03763
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 #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: 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.
1	G101		G	2/15/23	1017		4																				
2	G102																										
3	G103																										
4	G105																										
5	G106																										
6	G107																										
7	G108		G	2/15/23	1142		4																				
8	G109		G	2/15/23	1220		4																				
9	G110		G	2/15/23	1305		6																				
10	G111		G	2/15/23	1417		4																				
11	G119		G	2/15/23	1548		4																				
12	G120		G	2/15/23	1147		4																				
13	G121		G	2/15/23	1233		4																				
14	G122		G	2/15/23	1322		4																				
15	G123		G	2/15/23	1405		4																				
16	G124		G	2/15/23	1448		4																				

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-Q1-2023	Joseph R Reed	2/16/23	700		2-16	1125				
		2-16	1415		2/16/23	1430	2.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY): 2/16/23

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:	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 #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: 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.
1	G125			2/15/23	1544		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
COF-Q1-2023		2/16/23	700		2-16	1126
		2-16	1415		2/16/23	1430

SAMPLE CONDITIONS			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY): 2/16/23

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:	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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G213		G	2/15/23	1059		7																				
2	G214																										
3	G215		G	2/15/23	1204		7																				
4	G216																										
5	G217		G	2/15/23	1708		7																				
6	G218																										
7	G270																										
8	G271																										
9	G272																										
10	G273																										
11	G274																										
12	G275																										
13	G276		G	2/15/23	1545		7																				
14	G277		G	2/15/23	1419		6																				
15	G278		G	2/15/23	1603		6																				
16	G279																										

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-Q1-2023	Joe Reed	2/16/23	700		2-16	1125				
		2-16	1415		2/16/23	1430	2.8	Y	N	Y
							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 Reed

SIGNATURE of SAMPLER: Joe Reed

DATE Signed (MM/DD/YY): 2/16/23

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:	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 #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G280																										
2	G281																										
3	G301		G	2/15/23	1330	3																					
4	G302		G	2/15/23	1230	3																					
5	G303		G	2/15/23	1552																						
6	G305		G	2/15/23	1452	3																					
7	G306																										
8	G307		G	2/15/23	1524	3																					
9	G307D		G	2/15/23	~~1625~~	3																					
10	G308				G 3/15/23 16:25																						
11	G310																										
12	G312		G	2/15/23	—	U																					
13	G313																										
14	G314																										
15	G314D																										
16	G315		G	2/15/23	1119	3																					

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-Q1-2023	Joseph R Reed	2/16/23	700		2.16	1128	
		2.16	1416		1430	2/16	2.8 / Y / N / Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed — DATE Signed (MM/DD/YY): 2/16/23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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 #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G316																										
2	G401		G	2/15/23	1155		5																				
3	G402		G	2/15/23	1045		5																				
4	G403		G	2/15/23	1302		5																				
5	G404																										
6	G405																										
7	G406																										
8	G407																										
9	G410																										
10	G411																										
11	G1001		G	2/15/23	1015		3																				
12	G1003																										
13	L203		G	2/15/23	1316		2																				
14	NE Riser		G	2/15/23	1413		2																				
15	R104		G	2/15/23	1105		7																				
16	R201																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-Q1-2023	Joseph R Reed	2/16/23	700		2-16	1125	
		2-16	1413		2/16/23	1430	2.8 / Y / N / Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY): 2/16/23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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 #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: 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.
1	R205		G	2/15/23	1516		6																			
2	SG-02																									
3	SG-03																									
4	SG-04																									
5	T127		G	2/15/23	1009		6																			
6	T128		G	2/15/23	1053		4																			
7	X201		G	2/15/23	1330		2																			
8	XPW01		G	2/15/23	1650		2																			
9	XPW02		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
COF-Q1-2023	Joseph R Reed	2/16/23	700		2-16	1125
		2-16	1415		2/16/23	1430

SAMPLE CONDITIONS			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY): 2/16/23

VISTRA - COFFEEN GBO 3332
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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: standard	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES | **GROUND WATER** | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G125																									
2	G126																									
3	G151																									
4	G152																									
5	G153																									
6	G154																									
7	G155																									
8	G200	N	G	2/16/23	1300		7																			
9	G206D	"	"	"	1112		2																			
10	G206D-AM	"	"	"	1023		7																			
11	G207				1130		6																			
12	G208																									
13	G209																									
14	G210																									
15	G211																									
16	G212																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-Q1-2023	Austin Moon	2/16/23	1817							
					2/17/23	830	3.8	X	N	X

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: AMBER LABDE
SIGNATURE of SAMPLER: Austin Moon
DATE Signed (MM/DD/YY): 2/16/23

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:	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 #:	

REGULATORY AGENCY

NPDES | **GROUND WATER** | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G213																										
2	G214																										
3	G215																										
4	G216																										
5	G217																										
6	G218	W	G	2/16/23	1312		7																				
7	G270				1507		6																				
8	G271				1457		7																				
9	G272				1405		6																				
10	G273				1318		7																				
11	G274				1335		6																				
12	G275				1215		6																				
13	G276																										
14	G277																										
15	G278																										
16	G279				1127		7																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-Q1-2023		2/16/23	1817							
					2/17/23	830	3.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: ANDERSON, BRADLEY

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 2/16/23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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 #:	

REGULATORY AGENCY

NPDES **GROUND WATER** DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G280	W	G	2/16/23	1018		7																						
2	G281				1419		5																						
3	G301																												
4	G302																												
5	G303																												
6	G305																												
7	G306				1126		3																						
8	G307																												
9	G307D																												
10	G308				1249		3																						
11	G310				1348		3																						
12	G312																												
13	G313				1153		3																						
14	G314D				1057		3																						
15	G314D ~~AM~~				1003		3																						
16	G315																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-Q1-2023	Quentin Moore	2/16/23	1817							
					2/17/23	830	3.8	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: ANDREW CLARKE
SIGNATURE of SAMPLER: Quentin Moore
DATE Signed (MM/DD/YY): 02/16/23

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.

Page: 5 of 6

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: standard	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES **GROUND WATER** DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

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

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)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: 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.
1	G316	W	G	2/16/23	1025		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	W	G	2/16/23	1009		6																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-Q1-2023		2/16/23	1817							
					2/17/23	830	3.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: ANDREW KLAPOTE

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 2/16/23

1-28

SUBCONTRACT ORDER
Transfer Chain of Custody

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 (EMS 3/18/23) Total # of Containers: 1 Sample Origin (State): IL PO #: —

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

Relinquished By	Date/Time	Received By	Date/Time
(EMS 3/18/23) 3/18/23	3/17/23 0945		3/20/23 10:24

Sample Temperature Upon Receipt	4.6 °C
Sample(s) Received on Ice	Y or N
Proper Bottles Received in Good Condition	Y or N
Bottles Filled with Adequate Volume	Y or N
Samples Received Within Hold Time	Y or N
Date/Time Taken From Sample Bottle	Y or N

GB03506

VISTRA - COFFEEN ~~GB03332~~
COFFEEN 1Q23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 6

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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

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)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G125																										
2	G126																										
3	G151																										
4	G152																										
5	G153																										
6	G154																										
7	G155																										
8	G200	WT	G	2/16/23	1300		7																				
9	G206				1112		2																				
10	G206B-MS				1123		2																				
11	G207				1130		6																				
12	G208																										
13	G209																										
14	G210																										
15	G211																										
16	G212																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-Q1-2023	Austin Moore	2/16/23	1817							
					2/17/23	830	3.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: AUSTIN MOORE

SIGNATURE of SAMPLER: Austin Moore DATE Signed (MM/DD/YY): 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:

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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G213																										
2	G214																										
3	G215																										
4	G216																										
5	G217																										
6	G218	W	G	2/16/23	1352		7																				
7	G270				1307		6																				
8	G271				1457		7																				
9	G272				1403		6																				
10	G273				1318		7																				
11	G274				1335		6																				
12	G275				1215		6																				
13	G276																										
14	G277																										
15	G278																										
16	G279				1127		7																				

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-Q1-2023	Austin Moore	2/16/23	1817							
					2/17/23	830	3.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: ANDERS, ISLAND, DIE

SIGNATURE of SAMPLER: Austin Moore DATE Signed (MM/DD/YY): 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.

Page: 4 of 6

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: standard	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

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)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G280	W	G	2/16/23	1018		7																				
2	G281				1419		5																				
3	G301																										
4	G302																										
5	G303																										
6	G305																										
7	G306				1126		3																				
8	G307																										
9	G307D																										
10	G308				1249		3																				
11	G310				1348		3																				
12	G312																										
13	G313				1133		3																				
14	G314				1057		3																				
15	G314D ~~FM~~				1003		3																				
16	G315																										

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-Q1-2023	Quentin Moore	2/16/23	1817							
					2/17/23	830	3.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: AUSTIN MOORE

SIGNATURE of SAMPLER: Quentin Moore DATE Signed (MM/DD/YY): 02/16/23

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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	standard	Project Number:	2285	Profile #:	

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

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

SAMPLE ID
(A-Z, 0-9 / , -)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test	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.
1	G316	WT	G	2/16/23	1025		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	WT	G	2/16/23	1004		6																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-Q1-2023	William Moore	2/16/23	1817		2/17/23	830	3.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: AMBER KLAPPE

SIGNATURE of SAMPLER: William Moore

DATE Signed (MM/DD/YY): 2/16/23

GB03507

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 #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N: Analysis Test: COF_257_101	COF_257_102	COF_257_103	COF_257_104	COF_257_105	COF_B11_105	COF_WPCP_102	COF_WPCP_103_104	COF_WPCP_106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G125																									
2	G126																									
3	G151		G	2/14/23	1610		6																			
4	G152			2/14/23	1217		4																			
5	G153			2/14/23	1310		4																			
6	G154			2/14/23	1410		6																			
7	G155			2/14/23	1508		4																			
8	G200																									
9	G206																									
10	G206D																									
11	G207																									
12	G208		G	2/14/23	1435		6																			
13	G209																									
14	G210		G	2/14/23	1328		6																			
15	G211																									
16	G212		G	2/14/23	1609		7																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-Q1-2023	Joseph A Reed	2/15/23	700		2/15/23	1600	2.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph A Reed — DATE Signed (MM/DD/YY): 2/15/23

2/15/23

GB03507

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.

Page: 5 of 6

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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N: Analysis Test	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.
1	G316																										
2	G401																										
3	G402																										
4	G403																										
5	G404		G	2/14/23	1550		5																				
6	G405			2/14/23	1651		5																				
7	G406			2/14/23	1336		5																				
8	G407			2/14/23	1228		5																				
9	G410			2/14/23	1123		5																				
10	G411			2/14/23	1443		5																				
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: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-Q1-2023	Joseph R Reed	2/15/23	700		2/15/23	1600	2.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed DATE Signed (MM/DD/YY): 2/15/23

2/15/23

VISTRA - COFFEEN
COFFEEN 1Q23

GB03508

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 6

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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
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
COF-Q1-2023		2/16/23	700		2-16	1125
		2-16	1415		2/16/23	1430

SAMPLE CONDITIONS			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joseph R Reed

SIGNATURE of SAMPLER: Joseph R Reed DATE Signed (MM/DD/YY): 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.

Page: 3 of 6

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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

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)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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.
1	G213		G	2/15/23	1059		7																				
2	G214																										
3	G215		G	2/15/23	1204		7																				
4	G216																										
5	G217		G	2/15/23	1708		7																				
6	G218																										
7	G270																										
8	G271																										
9	G272																										
10	G273																										
11	G274																										
12	G275																										
13	G276		G	2/15/23	1545		7																				
14	G277		G	2/15/23	1418		6																				
15	G278		G	2/15/23	1603		6																				
16	G279																										

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-Q1-2023	Joe Reed	2/16/23	700		2-16	1125	
		2-16	1416				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joe Reed DATE Signed (MM/DD/YY): 2/16/23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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.

Page: 4 of 6

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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	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.
1	G280																										
2	G281																										
3	G301		G	2/15/23	1330	3																					
4	G302		G	2/15/23	1230	3																					
5	G303																										
6	G305		G	2/15/23	1452	3																					
7	G306																										
8	G307		G	2/15/23	1524	3																					
9	G307D		G	2/15/23	1625	3																					
10	G308																										
11	G310																										
12	G312		G	2/15/23	—	0																					
13	G313																										
14	G314																										
15	G314D																										
16	G315		G	2/15/23	1119	3																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-Q1-2023	Joseph R Reed	2/16/23	700		2-16	1128	
		2-16	1416				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed DATE Signed (MM/DD/YY): 2/16/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / , -)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	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.
1	G316																										
2	G401		G	2/15/23	1155		5																				
3	G402		G	2/15/23	1045		5																				
4	G403		G	2/15/23	1302		5																				
5	G404																										
6	G405																										
7	G406																										
8	G407																										
9	G410																										
10	G411																										
11	G1001		G	2/15/23	1015		3																				
12	G1003																										
13	L203		G	2/15/23	1316		2																				
14	NE Riser		G	2/15/23	1413		2																				
15	R104		G	2/15/23	1105		7																				
16	R201																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-Q1-2023	Joseph A Reid	2/16/23	700		2-16	1125	
		2-16	1413				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reid

SIGNATURE of SAMPLER: Joseph A Reid

DATE Signed (MM/DD/YY): 2/16/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Coffeen

WELL/SAMPLE POINT G200 **Purge Method:** Bladder

Date: 2nd 7/16/23 Start Time: 1200 Finish/Sample Time: 1300

Well Depth (Bottom) From MP: 20.20 ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 2.71 ft Total Purge Volume: 1.8 Gal / L

Total Drawdown: 0.0 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	12.16	2.71	100	6.67	899	7.71	137	4.64	464
2	12 17	2.71	100	6.65	899	7.80	130	4.60	466
3	12 18	2.71	100	6.65	902	7.82	126	4.55	388
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	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

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)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	2L HCl

7

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)

Comments

Sampler's Signature: Joseph R Rad

Coffeen

WELL/SAMPLE POINT R201 **Purge Method:** submersible

Date: 2/16/23 Start Time: 905 Finish/Sample Time: 1005

Well Depth (Bottom) From MP: 19.80 ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 2.78 ft Total Purge Volume: 1.8 Gal / L

End DTW 5.11

Total Drawdown: JR ~~5~~ 2.33 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	923	3.01	100	7.20	1176.6	8.60	-11	2.50	4.7
2	924	3.25	100	7.14	1175.1	8.51	-14	2.48	4.9
3	925	3.53	100	7.09	1175.0	8.48	-15	2.45	5.1
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	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

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)
1	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	2 H=1

6

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)

Comments well has bladder pump w/broken air line

Sampler's Signature: Joseph R Reed

Coffeen

WELL/SAMPLE POINT G206 **Purge Method:** Bladder

Date: 2-16-23 Start Time: 9:14 Finish/Sample Time: 10:23

Well Depth (Bottom) From MP: 24.84 ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 9.83 ft Total Purge Volume: 1.3 Gal / L

Total Drawdown: 0.79 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	09:34	10.59	100	7.46	814	11.58	184	10.23	70.7
2	09:35	10.60		7.45	813	11.63	186	10.09	68.6
3	09:36	10.60		7.43	811	11.78	188	9.94	66.7
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:

7

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)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250~~ 500 mL) ML
1	2.5, L, HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)

Comments

Sampler's Signature:

10.62

Coffeen

WELL/SAMPLE POINT G206D **Purge Method:** Bladder

Date: 2-16-23 Start Time: 10:25 Finish/Sample Time: 11:12

Well Depth (Bottom) From MP: 56.38 ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 29.69 ft Total Purge Volume: 1.3 Gal / L

26.69

4.2

Total Drawdown: 2.31 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	10:40	30.35	100	7.60	1,500	9.41	-90	4.81	57.3
2	10:41	30.37		7.56	1,480	9.50	-93	4.73	52.6
3	10:42	30.38		7.53	1,460	9.65	-95	4.60	53.1
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:

2

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)
	General (P, 250 mL)
1	2.5, L, HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)

Comments

Sampler's Signature:

32.00

Coffeen

WELL/SAMPLE POINT G209 **Purge Method:** Bladder

Date: 2-15-23 Start Time: 12:07 Finish/Sample Time: 13:12

Well Depth (Bottom) From MP: **25.26** ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 10.05 ft Total Purge Volume: 1.3 Gal / L

15.21

2.4

Total Drawdown: 1.27 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	12:19	10.73	100	7.38	1,240	15.46	128	2.56	35.3
2	12:20	10.75		7.37	1,240	15.35	129	2.48	30.6
3	12:21	10.78		7.35	1,230	15.25	128	2.44	30.4
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:

7

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)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250~~ 500mL)
1	2.5 L, HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)

Comments

Sampler's Signature:

1132

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103

Coffeen

WELL/SAMPLE POINT G212 **Purge Method:** Bladder

Date: 2-14-23 Start Time: 15:07 Finish/Sample Time: 16:09

Well Depth (Bottom) From MP: **24.33** ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 10.11 ft Total Purge Volume: 1.3 Gal / L

14.22

2.2 Total Drawdown: 0.71 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	15:19	10.76	100	7.55	710	12.97	158	5.08	41.9
2	15:20	10.78		7.54	709	12.99	159	5.04	41.7
3	15:21	10.79		7.52	708	13.02	159	4.97	41.9
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:

7

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)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 500 mL
1	2.5 L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)

Comments

Sampler's Signature:

10.82

Coffeen

WELL/SAMPLE POINT G213 **Purge Method:** Bladder

Date: 2-15-23 Start Time: 09:54 Finish/Sample Time: 10:59

Well Depth (Bottom) From MP: 22.44 ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 10.71 ft Total Purge Volume: 1.3 Gal / L

Total Drawdown: 0.71 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	10:11	11.36	100	7.49	691	13.31	124	6.14	133
2	10:12	11.40		7.53	692	13.35	138	6.05	123
3	10:13	11.41		7.52	691	13.43	140	5.97	104
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:

7

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)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250~~ 500 mL) ML
1	2.5, L, HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)

Comments

Sampler's Signature:

11.50

Coffeen

WELL/SAMPLE POINT G215 **Purge Method:** Bladder

Date: 2-15-23 Start Time: 11:02 Finish/Sample Time: 12:04

Well Depth (Bottom) From MP: **26.88** ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: ~~14.82~~ 12.56 ft 32 Total Purge Volume: 1.3 Gal / L

20

Total Drawdown: 0.39 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	11:14	14.69	100	7.11	1,980	13.68	-29	2.00	138
2	11:15	14.68		7.10	1,980	13.70	-30	1.93	129
3	11:16	14.70		7.10	1,980	13.71	-31	1.79	119
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:

7

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)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	2.5L HNO3

Filtered	
Qty	**Bottles**
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)

Comments

Sampler's Signature:

14.71

Coffeen

WELL/SAMPLE POINT G217 **Purge Method:** Bladder

Date: 2-15-23 Start Time: 16:05 Finish/Sample Time: 17:08

Well Depth (Bottom) From MP: 27.74 ft Min. Purge Volume: 1.6 Gal / 6

Depth to Water From MP: 14.78 ft Total Purge Volume: 13 Gal / 5

12.96

2.0

Total Drawdown: 0.32 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	16:18	15.12	100	7.23	1,370	14.96	14	2.40	73.9
2	16:19	15.18		7.21	1,370	15.01	14	2.35	67.0
3	16:20	15.10		7.20	1,370	15.00	13	2.24	67.4
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:

7

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)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250~~ 500 mL)
1	2.5, L, HNO3,

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)

Comments

Sampler's Signature:

15.10

Coffeen

WELL/SAMPLE POINT G218 **Purge Method:** Bladder pump

Date: 2/16/23 Start Time: 12:12 Finish/Sample Time: 13:12

Well Depth (Bottom) From MP: 26.79 ft Min. Purge Volume: 1.0 Gal / (L)

Depth to Water From MP: 13.62 ft Total Purge Volume: 1.25 Gal (L)

Total Drawdown: 0.47 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	12:26	13.95	100	7.14	1396.8	11.14	7.7	1.75	130.25
2	12:27	13.95	100	7.13	1403.7	10.98	5.1	1.59	106.25
3	12:28	13.95	100	7.12	1411.0	10.92	2.9	1.40	95.37
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT486944

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)
1	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, H2S04)
1	General (P,500mL)

Comments line Missing from G218, used G217 line

Sampler's Signature: [signature]

Coffeen

WELL/SAMPLE POINT NE RISER **Purge Method:** bladder

Date: 2/15/2023 Start Time: 1339 Finish/Sample Time: 1413

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

Depth to Water From MP: — ft Total Purge Volume: 1000 Gal / L mL

Total Drawdown: — ft

APP 2/15/23

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	1356	~~15~~	100	6.90	14,400	11.26	464	2.55	0.0
2	1358	—	100	6.92	14,000	11.27	465	2.48	0.0
3	1400	—	100	6.92	14,800	11.30	464	2.45	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		X
Casing locked/secure		X
Well cap fits securely.	✓	
Good seal/drainage		X
Well has weep holes		X

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~~ 500mL)

(2)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)

Comments

Sampler's Signature:

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Austin Moore	Location:	Coffeen
Weather:	59°-37° cloudy/rain wind SE 13 mph	Environment:	Rain, muddy grass
Multiparameter Water Meter	Make: Horriba	Model: U-5000	Serial Number: PW2GY7D3
Water Level Meter	Make: WT	Model: Heron	Serial Number: 111F220930ML

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.92	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.98	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2010	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	236	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)		%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 0829

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.97	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24
pH 7.00b	7.04	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.09	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	983	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 0952

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	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.06	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1023	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.07	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:

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:	Austin Moore	Date:	14-Feb-23

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: Aquatroll	Model: 600	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.				MSI	L343-07	12/9/2023
pH 10.00a	9.94	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	0.5	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2019	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	243 @ 10:58	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.7	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.1	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 915			
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.			Geotech	2GC931	Mar-24
pH 10.00b	10.01	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1019	µS/cm	±5%			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.				MSI	L172-33	6/23/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1010	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.10	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:	Joseph R Reed	Date:	2/14/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Coffeen Power
Weather:	48° rainy WIND	Environment:	wet, muddy
Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number: V4UIEVTF
Water Level Meter	Make: Heron	Model: water tape	Serial Number: 19FF2111192HB

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	N/a	N/a	MSI	L344-09	12/14/2023
pH 7.00a	7.09	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.08	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	23.12	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2,025	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	236	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.02	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.46	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.31	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 10:21

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/a	Geotech	2GC243	Mar-24
pH 7.00b	6.98	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.91	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1,048	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: X

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	X	s.u.	±0.1 s.u.	X	X	X	MSI	L315-04	11/22/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 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)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 16:47

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.08	s.u.	±0.1 s.u.	P	N/a	N/a	MSI	L315-04	11/22/2023
7.00a	7.05	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a	10.00	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1040	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.04	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.48	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments: N/a

Signature: [signature] Date: 2-14-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Coffeen
Weather:	46°-54° cloudy rain Wind SE 10mph	Environment:	grass, gravel, mud
Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number: YL9H59HA
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 3717-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	NO	N/A	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	10.00	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	10.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2060	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	248	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.9	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

242 @ 15°C

ICV (Initial Calibration Verification) Time: 9:00

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	6.87	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.01	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1020	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1700

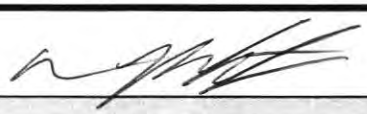
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1020	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.09	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:

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:		Date:	2/14/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Coffeen
Weather:	48° sunny	Environment:	Wet muddy
Multiparameter Water Meter	Make: ~~Horiba~~	Model: V-5000	Serial Number: VHV1FV4F
Water Level Meter	Make: Heron	Model: Water Tape	Serial Number: 19FF2111192HB

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	P	N/a	N/a	MSI	L344-09	12/14/2023
pH 7.00a	7.09	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.04	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	22.19	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2234	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	234	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.36	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.20	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 08:46

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/a	Geotech	2GC243	Mar-24
pH 7.00b	6.98	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.99	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1043	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: X

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 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)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 17:20

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.04	s.u.	±0.1 s.u.	P	N/a	N/a	MSI	L315-04	11/22/2023
7.00a	7.06	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a	10.09	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1029	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.01	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.41	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments: N/a

Signature: [signature] Date: ~~1-5~~ 2-15-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Austin Moore	Location:	Coffeen
Weather:	55-43 sunny wind WSW 13 mph	Environment:	muddy, gas
Multiparameter Water Meter	Make: Hollitha	Model: U-5000	Serial Number: PW26YJD3
Water Level Meter	Make: WT	Model: Heron	Serial Number: ILFF220930SML

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

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 0849

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.98	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24
pH 7.00b	7.03	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.06	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1029	µS/cm	±5%	+	-	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 1510

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1020	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.07	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:

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:	Austin Moore	Date:	15-Feb-23

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.				MSI	L343-07	12/9/2023
pH 10.00a	10.08	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	24.31	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2028.7	µS/cm	±5%				Geotech	2GE1442	May-23
ORP @ 14°	244.8	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	94.53	%	97-100%	F	Y	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.			Geotech	2GC931	Mar-24
pH 10.00b	9.91	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1032.2	µS/cm	±5%			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.				MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1016.53	µS/cm	±5%				Ricca	2108D48	Jul-23
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	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.				MSI	L172-33	6/23/2023
10.00a	10.04	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1021.61	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.07	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.09	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	2/15/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	coffeen
Weather:	46°-55°F sunny wind SW 12 mph	Environment:	grass, mud gravel

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number:	YL9K5914A	
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number:	3717-T	

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	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.62	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.45	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	17.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1980	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	230	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	~~0.09 98.6~~	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	—	↓	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

242 @ 15°C

ICV (Initial Calibration Verification)					Time: 0900			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.04	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24
pH 7.00b	6.87	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.97	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1030	µS/cm	±5%	↓	↓	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1630				
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	NO	N/A	MSI	L315-04	11/22/2023
pH 7.00a	6.96	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	9.95	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	977	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.08	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:				
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:		Date:	2/15/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Austin Moore	Location:	Coffeen
Weather:	43°-28° cloudy Wind NE 6mph	Environment:	mud, grass

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number:	PW2GYJD3	
Water Level Meter	Make: WT	Model: Heron	Serial Number:	IIFF220930SML	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.91	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.96	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2010	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	254	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)		%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 0835

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.96	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24
pH 7.00b	7.01	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.03	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	990	µS/cm	±5%			Ricca	4205H64	May-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	3.98	s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
pH 7.00a	7.06	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1030	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.06	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:

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:	Austin Moore	Date:	16-Feb-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane			Location:	Coffeen
Weather:	36° Cold Cloudy			Environment:	Wet Muddy
Multiparameter Water Meter	Make: Horiba	Model: U-5000		Serial Number:	U4V1FV4F
Water Level Meter	Make: Heron	Model: Water tape		Serial Number:	19FF211192HB

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.09	s.u.	±0.1 s.u.	P	N/A	N/A	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	10.04	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	24.9	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2026	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	268	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.03	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.46	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.04	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 09:04

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.13	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24
pH 7.00b	7.03	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.95	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1041	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: X

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	X	s.u.	±0.1 s.u.	X	X	X	MSI	L315-04	11/22/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 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)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 15:25

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.01	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	L315-04	11/22/2023
7.00a	7.07	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a	9.94	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1011	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	9.06	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.28	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments: Na

Signature: [signature] Date: 2-16-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Coffeen
Weather:	37°-43°F Cloudy Wind NE 6mph	Environment:	grass, mud, gravel
Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number: YLGKJ9HA
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 3717-T

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	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.91	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.97	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	20.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1950	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	251	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.03	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.2	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

249 @ 10°C

ICV (Initial Calibration Verification) Time: 0840

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	6.85	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.90	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000 0463	1413	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1522

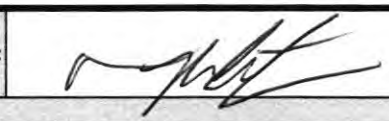
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1010	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.09	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:

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:		Date:	2/16/2023

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.			7.06	MSI	L343-07	12/9/2023
pH 10.00a	10.12	s.u.	±0.1 s.u.	↓	↓	10.08	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	2027.4	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	100.00	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.30	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: 8:54

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.02	s.u.	±0.15 s.u.	P	No; N/A more	Geotech	2GC243	Mar-24
pH 7.00b	7.04	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.03	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1016.8	µS/cm	±5%	↓	↓	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.				MSI	L172-33	6/23/2023
pH 10.00a	10.08	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1006.2	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.87	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: [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,

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

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

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

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
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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

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

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

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ANALYTICAL RESULTS

Sample: GF00140-23
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
Anions - PIA									
Chloride	160	mg/L		06/02/23 22:00	100	100	06/02/23 22:00	LAM	EPA 300.0 REV 2.1
Fluoride	0.255	mg/L		06/02/23 21:23	1	0.250	06/02/23 21:23	LAM	EPA 300.0 REV 2.1
Sulfate	370	mg/L		06/02/23 22:00	100	100	06/02/23 22:00	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	14.3	Feet		06/01/23 11:12	1		06/01/23 11:12	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		06/01/23 11:12	1		06/01/23 11:12	FIELD	Field*
Oxidation Reduction Potential	-27.0	mV		06/01/23 11:12	1	-500	06/01/23 11:12	FIELD	Field*
pH, Field Measured	7.16	pH Units		06/01/23 11:12	1		06/01/23 11:12	FIELD	Field*
Specific Conductance, Field Measured	1480	umhos/cm		06/01/23 11:12	1		06/01/23 11:12	FIELD	Field*
Temperature, Field Measured	19.8	°C		06/01/23 11:12	1		06/01/23 11:12	FIELD	Field*
Turbidity, Field Measured	99.1	NTU		06/01/23 11:12	1	0.00	06/01/23 11:12	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	300	mg/L		06/12/23 10:31	1	10	06/12/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 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)	1000	mg/L		06/02/23 15:56	1	26	06/02/23 15:56	HRF/MKH	SM 2540C
Total Metals - PIA									
Arsenic	3.3	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:38	JMW	EPA 6020A
Barium	85	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:38	JMW	EPA 6020A
Boron	14	ug/L		06/12/23 09:37	5	10	06/13/23 16:49	JMW	EPA 6020A
Calcium	170	mg/L		06/12/23 09:37	5	0.20	06/13/23 16:49	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:38	JMW	EPA 6020A
Magnesium	65	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:49	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:38	JMW	EPA 6020A
Potassium	0.69	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:49	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 12:38	JMW	EPA 6020A
Sodium	73	mg/L		06/12/23 09:37	5	0.10	06/13/23 16:49	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GF00140-36
Name: SG-04
Matrix: Water

Sampled: 05/30/23 16:12
Received: 06/01/23 13:59
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	6.41	Feet		05/30/23 16:12	1		05/30/23 16:12	FIELD	Field*

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ANALYTICAL RESULTS

Sample: GF00245-05
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
Anions - PIA									
Chloride	130	mg/L		06/02/23 18:05	25	25	06/02/23 18:05	LAM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/02/23 17:28	1	0.250	06/02/23 17:28	LAM	EPA 300.0 REV 2.1
Sulfate	540	mg/L		06/05/23 22:38	100	100	06/05/23 22:38	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	15.05	Feet		06/01/23 15:32	1		06/01/23 15:32	FIELD	Field*
Dissolved oxygen, Field	2.6	mg/L		06/01/23 15:32	1		06/01/23 15:32	FIELD	Field*
Oxidation Reduction Potential	-16.0	mV		06/01/23 15:32	1	-500	06/01/23 15:32	FIELD	Field*
pH, Field Measured	7.02	pH Units		06/01/23 15:32	1		06/01/23 15:32	FIELD	Field*
Specific Conductance, Field Measured	1830	umhos/cm		06/01/23 15:32	1		06/01/23 15:32	FIELD	Field*
Temperature, Field Measured	20.9	°C		06/01/23 15:32	1		06/01/23 15:32	FIELD	Field*
Turbidity, Field Measured	218	NTU		06/01/23 15:32	1	0.00	06/01/23 15:32	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	340	mg/L		06/02/23 12:13	1	10	06/02/23 12:13	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 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)	1200	mg/L		06/02/23 15:56	1	26	06/02/23 15:56	HRF/MKH	SM 2540C
Total Metals - PIA									
Arsenic	13	ug/L		06/12/23 09:37	5	1.0	06/13/23 13:02	JMW	EPA 6020A
Barium	45	ug/L		06/12/23 09:37	5	1.0	06/13/23 13:02	JMW	EPA 6020A
Boron	840	ug/L		06/12/23 09:37	5	10	06/13/23 17:12	JMW	EPA 6020A
Calcium	180	mg/L		06/12/23 09:37	5	0.20	06/13/23 17:12	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 13:02	JMW	EPA 6020A
Magnesium	88	mg/L		06/12/23 09:37	5	0.10	06/13/23 17:12	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 13:02	JMW	EPA 6020A
Potassium	4.2	mg/L		06/12/23 09:37	5	0.10	06/13/23 17:12	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/12/23 09:37	5	1.0	06/13/23 13:02	JMW	EPA 6020A
Sodium	96	mg/L		06/12/23 09:37	5	0.10	06/13/23 17:12	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GF01654-01
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
Anions - PIA									
Chloride	41	mg/L	Q4	06/09/23 10:43	10	10	06/09/23 10:43	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/09/23 09:49	1	0.250	06/09/23 09:49	CRD	EPA 300.0 REV 2.1
Sulfate	54	mg/L	Q4	06/09/23 10:43	10	10	06/09/23 10:43	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	12.51	Feet		06/07/23 15:35	1		06/07/23 15:35	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		06/07/23 15:35	1		06/07/23 15:35	FIELD	Field*
Oxidation Reduction Potential	110	mV		06/07/23 15:35	1	-500	06/07/23 15:35	FIELD	Field*
pH, Field Measured	7.20	pH Units		06/07/23 15:35	1		06/07/23 15:35	FIELD	Field*
Specific Conductance, Field Measured	722.1	umhos/cm		06/07/23 15:35	1		06/07/23 15:35	FIELD	Field*
Temperature, Field Measured	16.4	°C		06/07/23 15:35	1		06/07/23 15:35	FIELD	Field*
Turbidity, Field Measured	8.79	NTU		06/07/23 15:35	1	0.00	06/07/23 15:35	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	280	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	480	mg/L	M	06/12/23 10:55	1	26	06/12/23 10:55	MKH	SM 2540C
Total Metals - PIA									
Arsenic	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:25	JMW	EPA 6020A
Barium	51	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:25	JMW	EPA 6020A
Boron	< 10	ug/L		06/15/23 05:55	5	10	06/21/23 09:25	JMW	EPA 6020A
Calcium	56	mg/L		06/15/23 05:55	5	0.20	06/21/23 09:25	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:25	JMW	EPA 6020A
Magnesium	27	mg/L	Q4	06/15/23 05:55	5	0.10	06/21/23 09:25	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:25	JMW	EPA 6020A
Potassium	0.25	mg/L		06/15/23 05:55	5	0.10	06/21/23 09:25	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/22/23 07:36	JMW	EPA 6020A
Sodium	58	mg/L	Q4	06/15/23 05:55	5	0.10	06/21/23 09:25	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GF01654-02
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
Anions - PIA									
Chloride	45	mg/L		06/09/23 14:56	10	10	06/09/23 14:56	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/09/23 14:38	1	0.250	06/09/23 14:38	CRD	EPA 300.0 REV 2.1
Sulfate	59	mg/L		06/09/23 14:56	10	10	06/09/23 14:56	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	12.87	Feet		06/07/23 16:49	1		06/07/23 16:49	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		06/07/23 16:49	1		06/07/23 16:49	FIELD	Field*
Oxidation Reduction Potential	-1.50	mV		06/07/23 16:49	1	-500	06/07/23 16:49	FIELD	Field*
pH, Field Measured	7.21	pH Units		06/07/23 16:49	1		06/07/23 16:49	FIELD	Field*
Specific Conductance, Field Measured	685.9	umhos/cm		06/07/23 16:49	1		06/07/23 16:49	FIELD	Field*
Temperature, Field Measured	17.6	°C		06/07/23 16:49	1		06/07/23 16:49	FIELD	Field*
Turbidity, Field Measured	66.9	NTU		06/07/23 16:49	1	0.00	06/07/23 16:49	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	240	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	500	mg/L		06/12/23 10:55	1	26	06/12/23 10:55	MKH	SM 2540C
Total Metals - PIA									
Arsenic	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:29	JMW	EPA 6020A
Barium	54	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:29	JMW	EPA 6020A
Boron	< 10	ug/L		06/15/23 05:55	5	10	06/21/23 09:29	JMW	EPA 6020A
Calcium	65	mg/L		06/15/23 05:55	5	0.20	06/21/23 09:29	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:29	JMW	EPA 6020A
Magnesium	30	mg/L		06/15/23 05:55	5	0.10	06/21/23 09:29	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:29	JMW	EPA 6020A
Potassium	0.37	mg/L		06/15/23 05:55	5	0.10	06/21/23 09:29	JMW	EPA 6020A
Selenium	1.1	ug/L		06/15/23 05:55	5	1.0	06/22/23 07:43	JMW	EPA 6020A
Sodium	37	mg/L		06/15/23 05:55	5	0.10	06/21/23 09:29	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GF01654-03
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
Anions - PIA									
Chloride	65	mg/L		06/09/23 18:34	25	25	06/09/23 18:34	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/09/23 17:22	1	0.250	06/09/23 17:22	CRD	EPA 300.0 REV 2.1
Sulfate	110	mg/L		06/09/23 18:34	25	25	06/09/23 18:34	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.35	Feet		06/07/23 17:23	1		06/07/23 17:23	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		06/07/23 17:23	1		06/07/23 17:23	FIELD	Field*
Oxidation Reduction Potential	26.0	mV		06/07/23 17:23	1	-500	06/07/23 17:23	FIELD	Field*
pH, Field Measured	7.11	pH Units		06/07/23 17:23	1		06/07/23 17:23	FIELD	Field*
Specific Conductance, Field Measured	913.0	umhos/cm		06/07/23 17:23	1		06/07/23 17:23	FIELD	Field*
Temperature, Field Measured	25.4	°C		06/07/23 17:23	1		06/07/23 17:23	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		06/07/23 17:23	1	0.00	06/07/23 17:23	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	300	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	630	mg/L		06/12/23 10:55	1	26	06/12/23 10:55	MKH	SM 2540C
Total Metals - PIA									
Arsenic	8.5	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:32	JMW	EPA 6020A
Barium	150	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:32	JMW	EPA 6020A
Boron	11	ug/L		06/15/23 05:55	5	10	06/21/23 09:32	JMW	EPA 6020A
Calcium	110	mg/L		06/15/23 05:55	5	0.20	06/21/23 09:32	JMW	EPA 6020A
Lead	16	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:32	JMW	EPA 6020A
Magnesium	53	mg/L		06/15/23 05:55	5	0.10	06/21/23 09:32	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:32	JMW	EPA 6020A
Potassium	1.9	mg/L		06/15/23 05:55	5	0.10	06/21/23 09:32	JMW	EPA 6020A
Selenium	2.9	ug/L		06/15/23 05:55	5	1.0	06/22/23 07:45	JMW	EPA 6020A
Sodium	56	mg/L		06/15/23 05:55	5	0.10	06/21/23 09:32	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GF01654-04
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
Anions - PIA									
Chloride	89	mg/L		06/09/23 13:44	10	10	06/09/23 13:44	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/09/23 13:26	1	0.250	06/09/23 13:26	CRD	EPA 300.0 REV 2.1
Sulfate	220	mg/L		06/09/23 19:10	50	50	06/09/23 19:10	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.18	Feet		06/07/23 15:40	1		06/07/23 15:40	FIELD	Field*
Dissolved oxygen, Field	2.4	mg/L		06/07/23 15:40	1		06/07/23 15:40	FIELD	Field*
Oxidation Reduction Potential	-123	mV		06/07/23 15:40	1	-500	06/07/23 15:40	FIELD	Field*
pH, Field Measured	7.29	pH Units		06/07/23 15:40	1		06/07/23 15:40	FIELD	Field*
Specific Conductance, Field Measured	1430	umhos/cm		06/07/23 15:40	1		06/07/23 15:40	FIELD	Field*
Temperature, Field Measured	19.0	°C		06/07/23 15:40	1		06/07/23 15:40	FIELD	Field*
Turbidity, Field Measured	14.6	NTU		06/07/23 15:40	1	0.00	06/07/23 15:40	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	420	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	930	mg/L		06/12/23 10:55	1	26	06/12/23 10:55	MKH	SM 2540C
Total Metals - PIA									
Arsenic	3.9	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:36	JMW	EPA 6020A
Barium	78	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:36	JMW	EPA 6020A
Boron	< 10	ug/L		06/15/23 05:55	5	10	06/21/23 09:36	JMW	EPA 6020A
Calcium	120	mg/L		06/15/23 05:55	5	0.20	06/21/23 09:36	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:36	JMW	EPA 6020A
Magnesium	46	mg/L		06/15/23 05:55	5	0.10	06/21/23 09:36	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 09:36	JMW	EPA 6020A
Potassium	0.84	mg/L		06/15/23 05:55	5	0.10	06/21/23 09:36	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/22/23 07:47	JMW	EPA 6020A
Sodium	120	mg/L		06/15/23 05:55	5	0.10	06/21/23 09:36	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GF01654-18
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
Anions - PIA									
Chloride	130	mg/L		06/12/23 11:44	100	100	06/12/23 11:44	CRD	EPA 300.0 REV 2.1
Fluoride	0.296	mg/L		06/09/23 14:03	1	0.250	06/09/23 14:03	CRD	EPA 300.0 REV 2.1
Sulfate	370	mg/L		06/12/23 11:44	100	100	06/12/23 11:44	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	16.35	Feet		06/08/23 16:56	1		06/08/23 16:56	FIELD	Field*
Dissolved oxygen, Field	2.3	mg/L		06/08/23 16:56	1		06/08/23 16:56	FIELD	Field*
Oxidation Reduction Potential	2.00	mV		06/08/23 16:56	1	-500	06/08/23 16:56	FIELD	Field*
pH, Field Measured	6.74	pH Units		06/08/23 16:56	1		06/08/23 16:56	FIELD	Field*
Specific Conductance, Field Measured	1490	umhos/cm		06/08/23 16:56	1		06/08/23 16:56	FIELD	Field*
Temperature, Field Measured	19.6	°C		06/08/23 16:56	1		06/08/23 16:56	FIELD	Field*
Turbidity, Field Measured	61.5	NTU		06/08/23 16:56	1	0.00	06/08/23 16:56	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	310	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1100	mg/L		06/12/23 10:55	1	26	06/12/23 10:55	MKH	SM 2540C
Total Metals - PIA									
Arsenic	1.3	ug/L		06/15/23 05:55	5	1.0	06/21/23 10:58	JMW	EPA 6020A
Barium	110	ug/L		06/15/23 05:55	5	1.0	06/21/23 10:58	JMW	EPA 6020A
Boron	16	ug/L		06/15/23 05:55	5	10	06/21/23 10:58	JMW	EPA 6020A
Calcium	180	mg/L		06/15/23 05:55	5	0.20	06/21/23 10:58	JMW	EPA 6020A
Lead	1.2	ug/L		06/15/23 05:55	5	1.0	06/21/23 10:58	JMW	EPA 6020A
Magnesium	68	mg/L		06/15/23 05:55	5	0.10	06/21/23 10:58	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 10:58	JMW	EPA 6020A
Potassium	0.71	mg/L		06/15/23 05:55	5	0.10	06/21/23 10:58	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/22/23 08:36	JMW	EPA 6020A
Sodium	69	mg/L		06/15/23 05:55	5	0.10	06/21/23 10:58	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GF01654-20
Name: G206
Matrix: Ground Water - Grab

Sampled: 06/09/23 13:20
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	22	mg/L	Q4	06/09/23 20:04	5	5.0	06/09/23 20:04	CRD	EPA 300.0 REV 2.1
Sulfate	140	mg/L	Q4	06/09/23 20:58	50	50	06/09/23 20:58	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	12.1	Feet		06/09/23 13:20	1		06/09/23 13:20	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		06/09/23 13:20	1		06/09/23 13:20	FIELD	Field*
Oxidation Reduction Potential	-232	mV		06/09/23 13:20	1	-500	06/09/23 13:20	FIELD	Field*
pH, Field Measured	7.08	pH Units		06/09/23 13:20	1		06/09/23 13:20	FIELD	Field*
Specific Conductance, Field Measured	910.0	umhos/cm		06/09/23 13:20	1		06/09/23 13:20	FIELD	Field*
Temperature, Field Measured	18.3	°C		06/09/23 13:20	1		06/09/23 13:20	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		06/09/23 13:20	1	0.00	06/09/23 13:20	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	310	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Fluoride	0.430	mg/L		06/12/23 16:16	1	0.250	06/12/23 16:16	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	600	mg/L		06/13/23 14:44	1	26	06/13/23 14:44	MKH	SM 2540C
Total Metals - PIA									
Arsenic	2.6	ug/L		06/15/23 05:55	5	1.0	06/21/23 11:49	JMW	EPA 6020A
Barium	50	ug/L		06/15/23 05:55	5	1.0	06/21/23 11:49	JMW	EPA 6020A
Boron	12	ug/L		06/15/23 05:55	5	10	06/21/23 11:49	JMW	EPA 6020A
Calcium	86	mg/L		06/15/23 05:55	5	0.20	06/21/23 11:49	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 11:49	JMW	EPA 6020A
Magnesium	37	mg/L		06/15/23 05:55	5	0.10	06/21/23 11:49	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/21/23 11:49	JMW	EPA 6020A
Potassium	0.85	mg/L		06/15/23 05:55	5	0.10	06/21/23 11:49	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 05:55	5	1.0	06/22/23 08:39	JMW	EPA 6020A
Sodium	50	mg/L		06/15/23 05:55	5	0.10	06/21/23 11:49	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GF01654-21
Name: G206 DUP
Matrix: Ground Water - Grab

Sampled: 06/09/23 13:20
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	22	mg/L	Q4	06/09/23 23:05	5	5.0	06/09/23 23:05	CRD	EPA 300.0 REV 2.1
Sulfate	140	mg/L	Q4	06/09/23 23:23	50	50	06/09/23 23:23	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	12.1	Feet		06/09/23 13:20	1		06/09/23 13:20	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		06/09/23 13:20	1		06/09/23 13:20	FIELD	Field*
Oxidation Reduction Potential	-232	mV		06/09/23 13:20	1	-500	06/09/23 13:20	FIELD	Field*
pH, Field Measured	7.08	pH Units		06/09/23 13:20	1		06/09/23 13:20	FIELD	Field*
Specific Conductance, Field Measured	910.0	umhos/cm		06/09/23 13:20	1		06/09/23 13:20	FIELD	Field*
Temperature, Field Measured	18.3	°C		06/09/23 13:20	1		06/09/23 13:20	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		06/09/23 13:20	1	0.00	06/09/23 13:20	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	310	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Fluoride	0.417	mg/L		06/12/23 16:18	1	0.250	06/12/23 16:18	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	600	mg/L		06/13/23 14:44	1	26	06/13/23 14:44	MKH	SM 2540C
Total Metals - PIA									
Arsenic	2.8	ug/L		06/15/23 06:02	5	1.0	06/21/23 11:53	JMW	EPA 6020A
Barium	49	ug/L		06/15/23 06:02	5	1.0	06/21/23 11:53	JMW	EPA 6020A
Boron	10	ug/L		06/15/23 06:02	5	10	06/21/23 11:53	JMW	EPA 6020A
Calcium	86	mg/L	Q4	06/15/23 06:02	5	0.20	06/21/23 11:53	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 06:02	5	1.0	06/21/23 11:53	JMW	EPA 6020A
Magnesium	37	mg/L	Q4	06/15/23 06:02	5	0.10	06/21/23 11:53	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 06:02	5	1.0	06/21/23 11:53	JMW	EPA 6020A
Potassium	0.81	mg/L		06/15/23 06:02	5	0.10	06/21/23 11:53	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 06:02	5	1.0	06/22/23 08:45	JMW	EPA 6020A
Sodium	50	mg/L	Q4	06/15/23 06:02	5	0.10	06/21/23 11:53	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GF01654-22
Name: G206D
Matrix: Ground Water - Grab

Sampled: 06/09/23 12:29
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	25	mg/L		06/10/23 01:30	10	10	06/10/23 01:30	CRD	EPA 300.0 REV 2.1
Fluoride	0.873	mg/L		06/10/23 01:11	1	0.250	06/10/23 01:11	CRD	EPA 300.0 REV 2.1
Sulfate	160	mg/L		06/10/23 01:48	100	100	06/10/23 01:48	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	30.16	Feet		06/09/23 12:29	1		06/09/23 12:29	FIELD	Field*
Dissolved oxygen, Field	0.85	mg/L		06/09/23 12:29	1		06/09/23 12:29	FIELD	Field*
Oxidation Reduction Potential	-194	mV		06/09/23 12:29	1	-500	06/09/23 12:29	FIELD	Field*
pH, Field Measured	7.21	pH Units		06/09/23 12:29	1		06/09/23 12:29	FIELD	Field*
Specific Conductance, Field Measured	1150	umhos/cm		06/09/23 12:29	1		06/09/23 12:29	FIELD	Field*
Temperature, Field Measured	18.1	°C		06/09/23 12:29	1		06/09/23 12:29	FIELD	Field*
Turbidity, Field Measured	17.6	NTU		06/09/23 12:29	1	0.00	06/09/23 12:29	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	400	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	680	mg/L		06/13/23 14:44	1	26	06/13/23 14:44	MKH	SM 2540C
Total Metals - PIA									
Arsenic	16	ug/L		06/15/23 06:02	5	1.0	06/21/23 11:56	JMW	EPA 6020A
Barium	170	ug/L		06/15/23 06:02	5	1.0	06/21/23 11:56	JMW	EPA 6020A
Boron	120	ug/L		06/15/23 06:02	5	10	06/21/23 11:56	JMW	EPA 6020A
Calcium	86	mg/L		06/15/23 06:02	5	0.20	06/21/23 11:56	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 06:02	5	1.0	06/21/23 11:56	JMW	EPA 6020A
Magnesium	31	mg/L		06/15/23 06:02	5	0.10	06/21/23 11:56	JMW	EPA 6020A
Molybdenum	16	ug/L		06/15/23 06:02	5	1.0	06/21/23 11:56	JMW	EPA 6020A
Potassium	1.1	mg/L		06/15/23 06:02	5	0.10	06/21/23 11:56	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 06:02	5	1.0	06/22/23 08:52	JMW	EPA 6020A
Sodium	120	mg/L		06/15/23 06:02	5	0.10	06/21/23 11:56	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GF01654-24
Name: G209
Matrix: Ground Water - Grab

Sampled: 06/09/23 09:44
Received: 06/09/23 06:50
PO #: 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	61	mg/L		06/10/23 03:22	10	10	06/10/23 03:22	CRD	EPA 300.0 REV 2.1
Fluoride	0.396	mg/L		06/10/23 03:03	1	0.250	06/10/23 03:03	CRD	EPA 300.0 REV 2.1
Sulfate	230	mg/L		06/10/23 04:18	100	100	06/10/23 04:18	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	12.03	Feet		06/09/23 09:44	1		06/09/23 09:44	FIELD	Field*
Dissolved oxygen, Field	7.2	mg/L		06/09/23 09:44	1		06/09/23 09:44	FIELD	Field*
Oxidation Reduction Potential	-33.0	mV		06/09/23 09:44	1	-500	06/09/23 09:44	FIELD	Field*
pH, Field Measured	7.02	pH Units		06/09/23 09:44	1		06/09/23 09:44	FIELD	Field*
Specific Conductance, Field Measured	1290	umhos/cm		06/09/23 09:44	1		06/09/23 09:44	FIELD	Field*
Temperature, Field Measured	16.1	°C		06/09/23 09:44	1		06/09/23 09:44	FIELD	Field*
Turbidity, Field Measured	2.20	NTU		06/09/23 09:44	1	0.00	06/09/23 09:44	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	380	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/15/23 12:21	1	10	06/15/23 12:21	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	860	mg/L		06/13/23 14:44	1	26	06/13/23 14:44	MKH	SM 2540C
Total Metals - PIA									
Arsenic	2.9	ug/L		06/15/23 06:02	5	1.0	06/21/23 12:04	JMW	EPA 6020A
Barium	70	ug/L		06/15/23 06:02	5	1.0	06/21/23 12:04	JMW	EPA 6020A
Boron	11	ug/L		06/15/23 06:02	5	10	06/21/23 12:04	JMW	EPA 6020A
Calcium	140	mg/L		06/15/23 06:02	5	0.20	06/21/23 12:04	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 06:02	5	1.0	06/21/23 12:04	JMW	EPA 6020A
Magnesium	50	mg/L		06/15/23 06:02	5	0.10	06/21/23 12:04	JMW	EPA 6020A
Molybdenum	3.8	ug/L		06/15/23 06:02	5	1.0	06/21/23 12:04	JMW	EPA 6020A
Potassium	0.45	mg/L		06/15/23 06:02	5	0.10	06/21/23 12:04	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 06:02	5	1.0	06/22/23 09:05	JMW	EPA 6020A
Sodium	73	mg/L		06/15/23 06:02	5	0.10	06/21/23 12:04	JMW	EPA 6020A

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B335001 - No Prep - SM 2540C									
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		
Batch B335621 - No Prep - SM 2540C									
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		
Duplicate (B335621-DUP1)	**Sample: GF01654-01**			Prepared & Analyzed: 06/12/23					
Solids - total dissolved solids (TDS)	445	mg/L	M		475			7	5
Batch B335703 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B335703-MS1)	**Sample: GF01654-01**			Prepared & Analyzed: 06/09/23					
Chloride	1.0E9	mg/L	Q4	1.500	41	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	53.8	NR	80-120		
Fluoride	1.75	mg/L		1.500	0.222	102	80-120		
Matrix Spike Dup (B335703-MSD1)	**Sample: GF01654-01**			Prepared & Analyzed: 06/09/23					
Sulfate	1.00E9	mg/L	Q4	1.500	53.8	NR	80-120	0	20
Fluoride	1.74	mg/L		1.500	0.222	101	80-120	0.7	20
Chloride	1.0E9	mg/L	Q4	1.500	41	NR	80-120	0	20
Batch B335706 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B335706-MS2)	**Sample: GF01654-20**			Prepared & Analyzed: 06/09/23					
Chloride	1.0E9	mg/L	Q4	1.500	22	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	138	NR	80-120		
Matrix Spike (B335706-MS3)	**Sample: GF01654-21**			Prepared & Analyzed: 06/10/23					
Chloride	1.0E9	mg/L	Q4	1.500	22	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	138	NR	80-120		
Matrix Spike Dup (B335706-MSD2)	**Sample: GF01654-20**			Prepared & Analyzed: 06/09/23					
Chloride	1.0E9	mg/L	Q4	1.500	22	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	138	NR	80-120	0	20
Matrix Spike Dup (B335706-MSD3)	**Sample: GF01654-21**			Prepared & Analyzed: 06/10/23					
Sulfate	1.00E9	mg/L	Q4	1.500	138	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	22	NR	80-120	0	20
Batch B335739 - SW 3015 - EPA 6020A									
Blank (B335739-BLK1)				Prepared: 06/12/23 Analyzed: 06/13/23					
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Molybdenum	< 1.0	ug/L							

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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					
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		
Boron	557	ug/L		555.6		100	80-120		
Calcium	5.90	mg/L		5.556		106	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		
Batch B335751 - No Prep - SM 4500F C 1997									
Matrix Spike (B335751-MS7)	**Sample: GF01654-21**			Prepared & Analyzed: 06/12/23					
Fluoride	1.46	mg/L		1.000	0.417	104	80-120		
Matrix Spike Dup (B335751-MSD7)	**Sample: GF01654-21**			Prepared & Analyzed: 06/12/23					
Fluoride	1.45	mg/L		1.000	0.417	104	80-120	0.6	20
Batch B335822 - No Prep - SM 2320B 1997									
Duplicate (B335822-DUP4)	**Sample: GF00140-23**			Prepared & Analyzed: 06/12/23					
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	325	mg/L			300			8	10
Batch B335919 - No Prep - SM 2540C									
Blank (B335919-BLK1)				Prepared & Analyzed: 06/13/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B335919-BS1)				Prepared & Analyzed: 06/13/23					
Solids - total dissolved solids (TDS)	1050	mg/L		1000		105	84.9-109		
Duplicate (B335919-DUP1)	**Sample: GF01654-21**			Prepared & Analyzed: 06/13/23					
Solids - total dissolved solids (TDS)	595	mg/L			595			0	5
Batch B336092 - SW 3015 - EPA 6020A									
Blank (B336092-BLK1)				Prepared: 06/15/23 Analyzed: 06/21/23					
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Boron	< 10	ug/L							
Calcium	< 0.20	mg/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					

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

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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		
Boron	492	ug/L		555.6		89	80-120		
Calcium	5.73	mg/L		5.556		103	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		
Matrix Spike (B336092-MS1)	**Sample: GF01654-01**			Prepared: 06/15/23 Analyzed: 06/21/23					
Arsenic	545	ug/L		555.6	ND	98	75-125		
Barium	598	ug/L		555.6	51.2	98	75-125		
Boron	495	ug/L		555.6	ND	89	75-125		
Calcium	59.8	mg/L		5.556	55.6	75	75-125		
Lead	516	ug/L		555.6	ND	93	75-125		
Magnesium	30.8	mg/L	Q4	5.556	26.8	71	75-125		
Molybdenum	540	ug/L		555.6	ND	97	75-125		
Potassium	5.49	mg/L		5.556	0.251	94	75-125		
Selenium	567	ug/L		555.6	0.822	102	75-125		
Sodium	60.5	mg/L	Q4	5.556	58.3	39	75-125		
Matrix Spike Dup (B336092-MSD1)	**Sample: GF01654-01**			Prepared: 06/15/23 Analyzed: 06/21/23					
Arsenic	554	ug/L		555.6	ND	100	75-125	2	20
Barium	611	ug/L		555.6	51.2	101	75-125	2	20
Boron	507	ug/L		555.6	ND	91	75-125	2	20
Calcium	60.1	mg/L		5.556	55.6	82	75-125	0.7	20
Lead	529	ug/L		555.6	ND	95	75-125	2	20
Magnesium	30.9	mg/L	Q4	5.556	26.8	73	75-125	0.4	20
Molybdenum	547	ug/L		555.6	ND	99	75-125	1	20
Potassium	5.62	mg/L		5.556	0.251	97	75-125	2	20
Selenium	572	ug/L		555.6	0.822	103	75-125	0.8	20
Sodium	60.6	mg/L	Q4	5.556	58.3	41	75-125	0.2	20
Batch B336093 - SW 3015 - EPA 6020A									
Blank (B336093-BLK1)				Prepared: 06/15/23 Analyzed: 06/21/23					
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Boron	< 10	ug/L							
Calcium	< 0.20	mg/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 (B336093-BS1)				Prepared: 06/15/23 Analyzed: 06/21/23					
Arsenic	542	ug/L		555.6		98	80-120		

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

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B336093-BS1)				Prepared: 06/15/23 Analyzed: 06/21/23					
Barium	551	ug/L		555.6		99	80-120		
Boron	495	ug/L		555.6		89	80-120		
Calcium	5.42	mg/L		5.556		97	80-120		
Lead	519	ug/L		555.6		93	80-120		
Magnesium	5.46	mg/L		5.556		98	80-120		
Molybdenum	535	ug/L		555.6		96	80-120		
Potassium	5.31	mg/L		5.556		96	80-120		
Selenium	576	ug/L		555.6		104	80-120		
Sodium	5.32	mg/L		5.556		96	80-120		
Matrix Spike (B336093-MS1)	**Sample: GF01654-21**			Prepared: 06/15/23 Analyzed: 06/21/23					
Arsenic	545	ug/L		555.6	2.77	98	75-125		
Barium	585	ug/L		555.6	48.9	96	75-125		
Boron	496	ug/L		555.6	10.3	87	75-125		
Calcium	87.9	mg/L	Q4	5.556	86.4	27	75-125		
Lead	513	ug/L		555.6	ND	92	75-125		
Magnesium	38.6	mg/L	Q4	5.556	36.7	34	75-125		
Molybdenum	534	ug/L		555.6	0.750	96	75-125		
Potassium	5.94	mg/L		5.556	0.806	92	75-125		
Selenium	563	ug/L		555.6	ND	101	75-125		
Sodium	50.9	mg/L	Q4	5.556	50.2	12	75-125		
Matrix Spike Dup (B336093-MSD1)	**Sample: GF01654-21**			Prepared: 06/15/23 Analyzed: 06/21/23					
Arsenic	540	ug/L		555.6	2.77	97	75-125	1	20
Barium	584	ug/L		555.6	48.9	96	75-125	0.09	20
Boron	501	ug/L		555.6	10.3	88	75-125	1	20
Calcium	88.4	mg/L	Q4	5.556	86.4	35	75-125	0.5	20
Lead	505	ug/L		555.6	ND	91	75-125	2	20
Magnesium	38.8	mg/L	Q4	5.556	36.7	37	75-125	0.4	20
Molybdenum	534	ug/L		555.6	0.750	96	75-125	0.02	20
Potassium	5.91	mg/L		5.556	0.806	92	75-125	0.4	20
Selenium	554	ug/L		555.6	ND	100	75-125	2	20
Sodium	51.0	mg/L	Q4	5.556	50.2	15	75-125	0.3	20
Batch B336210 - No Prep - SM 2320B 1997									
Duplicate (B336210-DUP1)	**Sample: GF01654-01**			Prepared & Analyzed: 06/15/23					
Alkalinity - bicarbonate as CaCO3	262	mg/L			275			5	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Duplicate (B336210-DUP4)	**Sample: GF01654-21**			Prepared & Analyzed: 06/15/23					
Alkalinity - bicarbonate as CaCO3	288	mg/L			312			8	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			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

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 J Schindler

Certified by: Gail Schindler, Project Manager

GF00140
~~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.

Page: 1 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 #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G214		G	6/1	1300		6																								
2	G111		G	6/1	1345		8																								
3	G310		G	6/1	1242		13																								
4	G312		G	6/1	1401		13																								
5	G279		G	6/1	1207		15																								
6	G277		G	6/1	1027		15																								
7																															
8																															
9																															
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	Brendan Glennon	6/1	1645							
				Grace Jackson	6/1/23	16:45	24.2	Y	N	Y
							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: Brendan Glennon
SIGNATURE of SAMPLER: Brendan Glennon
DATE Signed (MM/DD/YY): 06/01/23

GF00140
VMW 6-1-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 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 #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G101	WT		5/31/23	1352		4																								
2	G107				1419		4																								
3	G109				1530		4																								
4	G110				1445		4																								
5	G119				1024		4																								
6	G120				1020		4																								
7	G121				1120		4																								
8	G122				1126		4																								
9	G123				1220		4																								
10	G124				1250		4																								
11	G125				1310		4																								
12	G302				1600		13																								
13	G302 Dup				1600		13																								
14	G303				1723		13																								
15	G316				1033		13																								
16																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q2 Rev 1	Joseph R Reed	6/1/23	1120		6/1/23	1105				
		6/1/23	1357		6/1/23	13:57	3.5	Y	N	Y
							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 Reed

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY): 6/1/23

GF00140
vmw 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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G406	WT		5/31/23	1645		14																								
2	G406 Dup				1645		14																								
3	G407				1409		14																								
4	G410				1327		6																								
5	G411				1200		6																								
6	G314D	WT		6/1/23	0938		13																								
7	G314	WT		6/1/23	1047		13																								
8	G218	WT	G	6/1/23	1112		15																								
9	G101 DUP	WT		5/31/23	1352		4																								
10	G124 DUP	WT		5/31/23	1250		4																								
11																															
12																															
13																															
14																															
15																															
16																															

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q2 Rev 1		6/1/23	1106		6/1/23	1106				
		6/1/23	1353		6/1/23	13:59	3.5	Y	N	Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:		Temp in °C	Received on Ice (Y/N)
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY): 6/1/23	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

YS 6-19-23

GF00140
VMW ~~6-1-23~~
6-1-23

CHAIN-OF-CUSTODY / Analytical Request Document

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APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103

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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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.
		Requested Analysis Filtered (Y/N)																														
1	G214	DRINKING WATER DW		G	6/1/23	1300		6																								
2	G111	WATER WT		G	6/1/23	1345		8																								
3	G310	WASTE WATER WW		G	6/1/23	1242		13																								
4	G312	PRODUCT P		G	6/1/23	1401		13																								
5	G279	SOIL/SOLID SL		G	6/1/23	1207		15																								
6	G277	OIL OL		G	6/1/23	1027		15																								
7	G111 DUP GS 6-19-23	WIPE WP		G	6/1/23	1345		4																								
8		AIR AR																														
9		OTHER OT																														
10		TISSUE TS																														
11																																
12																																
13																																
14																																
15																																
16																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q2 Rev 1	Brendan Glennon	6/1/23	1645							
	GS 6-19-23			Grace Jackson	6/1/23	14:45	24.2	Y	N	Y
							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: Brendan Glennon

SIGNATURE of SAMPLER: Brendan Glennon DATE Signed (MM/DD/YY): 06/01/23

~~GE~~ GF00245
6-2-23
VMW

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

ITEM #	Section D Required Client Information — 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G108	WT	G	6/1/23	1531		4																							
2	T127				1630		6																							
3	T128				1528		6																							
4	G151				1434		4																							
5	G215				1532		15																							
6	G308				1552		13																							
7	~~G310~~				~~1242~~		13																							
8	G312				1401		13																							
9	GJS 6-19-23																													
10																														
11																														
12																														
13																														
14																														
15																														
16																														

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q2 Rev 1	Joseph R Rel	6/1/23	1935	Vanessa Wagner	6-2-23	700	4.1	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joe Reed
SIGNATURE of SAMPLER: Joseph R Reed
DATE Signed (MM/DD/YY): 6/1/23

GF01654
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.

Page: 5 of 13

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 STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G212			6/7/23	1535		15	X	X	X		X																			
2	G213				1649		15	X	X	X		X																			
3	G200				1723		15	X	X	X		X																			
4	R201				1540		15	X	X	X		X																			
5	EB-01				1755		15	X	X	X		X																			
6	G275			6/8/23	1200		15	X	X	X																					
7	G275 Dup				1200		15	X	X	X		X																			
8	G275D				1313		13	X	X	X																					
9	G280				0925		15	X	X	X		X																			
10	G283				1432		13	X	X	X																					
11	G285				1353		13	X	X	X																					
12	R205				1515		6	X	X	X		X																			
13	G281				1348		14	X	X	X		X																			
14	G272				1210		6	X	X	X		X																			
15	G274				1104		6	X	X	X		X																			
16	G270				0954		15	X	X	X		X																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q2 Rev 1	James David	6/8/23	2055							
				Van Wojnn	6-9-23	650	4.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James David

SIGNATURE of SAMPLER: James David

DATE Signed (MM/DD/YY): 6/8/23

GF9654
6-9-23 VMW

CHAIN-OF-CUSTODY / Analytical Request Document

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GB 6-14-23

Page: 12 of 13

COF-257-103

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, CMF GYPSUM STACK POND

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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

ITEM #	Section D Required Client Information: 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G284			6/8/23	1516		13	X	X	X																					
2	G217			1	1656		15	X	X	X		X																			
3	NE Riser				1720		12	X	X	X																					
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															
13																															
14																															
15																															
16																															

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q2 Rev 1	James David	6/8/23	2055							
				[signature]	6-9-23	650	4.2	Y	N	Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	James David		
SIGNATURE of SAMPLER:	[signature]	DATE Signed (MM/DD/YY):	6/8/23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

GFO1654
6-9-23 VMW

GJS 6-14-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 of 3

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 STATE: IL

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GME GYPSUM STACK POND
COF-257-103

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G206	WT	G	6/9/23	1320		15	X	X	X		X																				
2	G206 Dup	WT	G	6/9/23	1320		15	X	X	X		X																				
3	G206D	WT	G	6/9/23	1229		13	X	X	X																						
4	G207	WT	G	6/9/23	1034		6	X	X	X		X																				
5	G209	WT	G	6/9/23	0944		15	X	X	X		X																				
6	EB02	WT	G	6/9/23	1343		6	X	X	X		X																				
7																																
8																																
9																																
10																																
11																																
12																																
13																																
14																																
15																																
16																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q2 Rev 1		6/9/23	1614							
					6-9-23	1614	3.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Rembecher

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 06/09/23

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 HOBOconnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		Start note with relevant well ID
G045D	COF_G045&D	X		AP2	102	5/30/23	1622	9.82					AP	TD 44.96
G046D	COF_G046&D	X		AP2	102	5/30/23	1447	14.54					AP	TD 55.19
G1001	COF_G1001		X	AP2	102						21615675			
G1003	COF_G1003	X		AP2	102	5/30/23	1538	10.97					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 HOBOconnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		Start note with relevant well ID
G122	COF_G122	X		LF	105	5/30/23	1427	14.00					JD	
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	1349	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

Well	Unique ID	Episodic	Transducer	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	Notes
									WL from HOBOconnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		Start note with relevant well ID
G211	COF_G211		X	GSP	103						21638040			
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 HOBOconnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		Start note with relevant well ID
G278	COF_G278	X		RP	104	5/30/23	1359	21.75					KL	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

Well	Unique ID	Episodic	Transducer	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	Notes
									WL from HOBOconnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		Start note with relevant well ID
G308	COF_G308		X	AP1	101						21615638			
G309	COF_G309		X	AP1	101						21615559			
G310	COF_G310		X	AP1	101						21615562			
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						21615561			
G313	COF_G313		X	AP1	101						21615551			
G314	COF_G314		X	AP1	101						21615548			
G314D	COF_G314&D		X	AP1	101						21615526			
G315	COF_G315		X	AP1	101						21615543			
G316	COF_G316	X		AP1	101	5/30/23	1358	12.28					AP	
G317	COF_G317		X	AP1	101						21615531			
G401	COF_G401	X		AP2	102	5/30/23	1550	21.72					AP	
G402	COF_G402		X	AP2	102						21615532			
G403	COF_G403		X	AP2	102						21615120			
G404	COF_G404		X	AP2	102						21615119			
G405	COF_G405		X	AP2	102						21615498			

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 HOBOconnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		Start note with relevant well ID
G406	COF_G406		X	AP2	102						21615123			
G407	COF_G407		X	AP2	102						21615122			
G410	COF_G410	X		AP2	102	5/30/23	1515	8.09					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	2.25					JR	
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	15,02	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 HOBOconnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		Start note with relevant well ID
MW11S	COF_MW11#S		X	GSP	103						21615553			
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	1446	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	6.01					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

Well	Unique ID	Episodic	Transducer	Unit Name	Unit Number	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	Notes
									WL from HOBOconnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		Start note with relevant well ID
T408	COF_T408	X		AP2	102	5/30/23	1618	7.42					AP	TD 28.85
T409	COF_T409	X		AP2	102	5/30/23	1442	11.27					AP	TD 30.06
TA31	COF_TA31	X		LF	105	5/30/23	1431	7.06					AL	TD 22.75
TA33	COF_TA33	X		LF	105	5/30/23	1430	8.42					JQ	
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					JQ	
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	

[U:GKJ 5/3/23]

Coffeen

WELL/SAMPLE POINT G200 **Purge Method:** Portable pump with dedicated Tubing

Date: 6/7/2023 Start Time: 1550 Finish/Sample Time: ~~1523~~ 1723

App 6/7/23

Well Depth (Bottom) From MP: 20.20 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 6.35 ft Total Purge Volume: 1500 Gal / L (mL)

Total Drawdown: -0.39 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	1615	6.57	100	7.15	905	25.31	20	1.40	734
2	1617	6.56	100	7.13	910	25.39	23	1.36	>1000
3	1619	6.56	100	7.11	913	25.39	26	1.33	>1000
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	✓	

App 6/7/23

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)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250 mL~~) 1000mL
1	Ammonia (P, 250mL, H2SO4)
1	(P, 2.5L, HNO3)

(15)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2S04)
1	General (P, ~~500mL~~) 1000mL
3	TOC (A,V, 40mL, H2SO4)

Final DTW 5.96 RL

Comments · Transducer S/N 21615630 diss Iron $^{+2}$ - 0.243 ppm

unable to use Dedicated Bladder due to check valve issues

lots of sediment

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT R201 **Purge Method:** portable pump with Dedicated Tubing

Date: 6/7/2023 Start Time: 1412 Finish/Sample Time: 1540

Well Depth (Bottom) From MP: 19.80 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 6.18 ft Total Purge Volume: 1500 Gal / L

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	1432	7.25	100	7.37	1480	19.06	-126	2.53	13.8
2	1434	7.25	100	7.33	1450	18.97	-124	2.48	14.8
3	1436	7.25	100	7.29	1430	18.99	-123	2.43	14.6
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	J	
Casing locked/secure	J	
Well cap fits securely.	J	
Good seal/drainage	J	
Well has weep holes	—	

BOTTLE INFORMATION:

Unfiltered Qty	Unfiltered 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)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250mL~~ 1000mL)
1	Ammonia (P, 250mL, H2SO4)
1	(P, 2.5L, HNO3)

15

Filtered Qty	Filtered Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2S04)
1	General (P, ~~500mL~~) 1000mL
3	TOC (A,V, 40mL, H2SO4)

Final DTW - 5.74

Comments Transducer SIN 21615118 dissIron ~~ppm~~ - 3.924 ppm
Ants in well. Air line in Dedicated Bladder, Buskets, had to use portable pump

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT G206 **Purge Method:** Desicated Bladder pump

Date: 6/9/2023 Start Time: 1047 Finish/Sample Time: 1320

Well Depth (Bottom) From MP: 24.84 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 12.10 ft Total Purge Volume: 1500 Gal / L mL

Total Drawdown: 0.85 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	1105	13.62	100	7.06	916	18.26	-231	1.35	0.0
2	1109	13.62	100	7.06	914	18.20	-230	1.35	0.0
3	1109	13.62	100	7.08	910	18.27	-232	1.26	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	Unfiltered Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3+3 FD	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1+1 FD	Metals (P,250mL, HNO3)
1+1 FD	Cyanide (P, 250mL, NaOH)
1+1 FD	Phenols (A,G,250mL, H2SO4)
1+1 FD	General (P, ~~250~~mL) 1000mL
1+1 FD	Ammonia (P,250mL, H2SO4)
1+1 FD	(P, 2.5L, HNO3)

15+15 H_2SO_4

Filtered Qty	Filtered Bottles
1+1 FD	Metals (P,250mL, HNO3)
1+1 FD	Ammonia (P,250mL, H2S04)
1+1 FD	General (P,~~500~~mL) 1000 mL
3+3 FD	Toc (A, V, 40mL, H2SO4)

Final DTW 12.95 FL

Comments Transducer S/N 21629315 diss $Iron^{+2}$ -0.986 ppm

Arks in Well Field Dup Filled here

Sampled at same time as G206 D alternating between purge and filling large Bottles

Sampler's Signature: _____

WELL/SAMPLE POINT G206D **Purge Method:** Dedicated Bladder Pump

Date: 6/9/2023 Start Time: 1055 Finish/Sample Time: 1229

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

Depth to Water From MP: 30.16 ft Total Purge Volume: 1500 Gal / L (mL)

Total Drawdown: 3.54 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	1119	32.15	100	7.22	1140	18.11	-193	0.91	19.7
2	1121	32.23	100	7.22	1140	18.08	-194	0.88	18.7
3	1123	32.23	100	7.21	1150	18.07	-194	0.85	17.6
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)
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
1	Ammonia (P, 250mL, H2SO4)
1	(P, 250mL, HNO3)

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Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2S04)
1	General (P,~~500mL~~) 1000mL
3	TOC (A, V, 40mL, H2SO4)

final DTW 33.70ft

Comments Transducer S/N 216380311 diss Iron^{+2} - 3.037 ppm
sample at same time as G206 during well purging not filling of purge bottles

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT G209 **Purge Method:** Dedicated Bladder pump

Date: 6/01/2023 Start Time: 0813 Finish/Sample Time: 0944

Well Depth (Bottom) From MP: 25.26 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 12.03 ft Total Purge Volume: 1500 Gal / L (mL)

Total Drawdown: 0.50 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	0834	13.00	100	7.01	1300	16.10	-29	7.31	2.5
2	0836	13.00	100	7.01	1290	16.05	-29	7.25	2.6
3	0838	13.00	100	7.02	1290	16.07	-33	7.18	2.2
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.		X
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)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250mL~~) 1000mL
1	Ammonia (P,250mL, H2SO4)
1	(P,2.5L, HNO3)

(15)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2S04)
1	General (P, ~~500mL~~) 1000mL
3	TOC (A,V, 40mL, H2SO4)

Final DTW-12.53 AL

Comments Transducer S/N 216293K diss Iron FE - 1.122 ppm

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT G212 **Purge Method:** Dedicated pump

Date: 6/7/23 Start Time: 1413 Finish/Sample Time: 1535

Well Depth (Bottom) From MP: 24.33 ft Min. Purge Volume: 1500 Gal / L (mL)

Depth to Water From MP: 12.51 ft Total Purge Volume: 2000 Gal / L (mL)

Total Drawdown: _____ 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	1428	13.36	100	7.21	727.65	16.43	110.1	1.62	10.08
2	1429	13.36	100	7.21	671.34	16.41	109.9	1.62	10.31
3	1430	13.37	100	7.21	727.62	16.39	110.4	1.61	9.07
4	1431	13.37	100	7.20	726.19	16.40	110.5	1.60	8.52
5	1432	13.38	100	7.20	722.11	16.42	110.2	1.60	8.79
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)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250mL~~) 1000mL JMJ 6/7
1	Ammonia
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2S04)
	General (P,500mL)
1	General P 1000mL
3	TOC
0.116 Ppm	Soluble Iron +2

Final DTW = 12.91

Comments

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT G213 **Purge Method:** Dedicated pump

Date: 6/7/23 Start Time: 1539 Finish/Sample Time: 1649

Well Depth (Bottom) From MP: 22.44 ft Min. Purge Volume: 1500 Gal / L (mL)

Depth to Water From MP: 12.87 ft Total Purge Volume: 1800 Gal / L (mL)

Total Drawdown: 0.78 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	1544	13.40	100	7.21	680.96	17.58	-8.5	1.61	65.95
2	1545	13.40	100	7.21	683.83	17.60	-4.8	1.58	62.59
3	1547	13.41	100	7.21	685.93	17.63	-1.5	1.57	66.90
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)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250mL~~) 1000mL SMD6/7
1	Ammonia
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2S04)
	General (P,500mL)
1	General P 1000mL
3	TOC
0.073 ppm	Soluble Iron +2

Final DTW = 13.65

Comments

Sampler's Signature:

Coffeen

WELL/SAMPLE POINT G215 **Purge Method:** Dedicated Pump

Date: 6/1/2023 Start Time: 1334 Finish/Sample Time: 1532

Well Depth (Bottom) From MP: 26.88 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 15.05 ft Total Purge Volume: 1500 Gal / L (mL)

Total Drawdown: 0.16 ft

App 6/1/23

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	1358	15.42	100	7.04	1820	20.90	-15	2.54	254
2	~~13~~ 1400	15.42	100	7.00	1880	20.85	-14	2.59	224
3	1402	15.42	100	7.02	1830	20.92	-16	2.63	218
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)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250 mL~~) 1000 mL
1	Ammonia (P 250mL H2SO4)
1	CP, 2.5L, HNO3)

(15)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2S04)
1	General (P, ~~500mL~~) 1000mL
3	Toc CA, V, 40mL, H2SO4)

Final DTW 15.15

Comments Transducer S/N 21638034 Iron - 0.917 ppm

Sampler's Signature: _____

Coffeen

WELL/SAMPLE POINT G217 **Purge Method:** Deficated pump

Date: 6/8/2023 Start Time: 1530 Finish/Sample Time: ~~1656~~ 1656

Apr 6/8/23

Well Depth (Bottom) From MP: 27.74 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 16.35 ft Total Purge Volume: 1500 Gal / L ML

Total Drawdown: 0.35 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	1548	16.75	100	6.82	1480	19.60	9	2.44	72.3
2	1550	16.75	100	6.77	1480	19.58	4	2.35	68.7
3	1552	16.75	100	6.74	1490	19.55	2	2.30	61.5
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)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250mL~~ 1000mL
1	Ammonia (P,250mL, H2SO4)
1	(P,250L, HNO3)

15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2S04)
1	General (P,~~500mL~~ 1000mL)
3	TOC (A,V, 40mL, H2SO4)

Final DTW 16.70 AL

Comments Transducer S/N 21629316 diss Iron = 0.439 ppm

Sampler's Signature:

616.75

Coffeen

WELL/SAMPLE POINT G218 **Purge Method:** Desiccated Pump

Date: 6/1/2023 Start Time: 0932 Finish/Sample Time: 1112

Well Depth (Bottom) From MP: 26.79 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 14.30 ft Total Purge Volume: 1500 Gal / L (mL)

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	1002	14.70	100	7.19	1470	19.88	-19	1.83	121
2	1004	14.70	100	7.18	1480	19.82	-23	1.79	110
3	1006	14.70	100	7.16	1480	19.83	-27	1.76	99.1
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)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250~~mL) 1000mL
1	Ammonia (P,250mL, H2SO4)
1	(P, 2.5L, HNO3)

(15)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2S04)
1	General (P,~~500mL~~) 1000mL
3	TOC (A,V, 40mL, H2SO4)

Final DTW 14.45

Comments Transducer S/N 21638032 dissIron Fe 1.213 ppm

Sampler's Signature: _____

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lam	Location:	Coffeen Power
Weather:	85° Sunny	Environment:	Dry

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number:	YL9KJ9HA	
Water Level Meter	Make: Heron	Model: water tape	Serial Number:	19FF2202/31ML	

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	6.98	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.96	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	20.50	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1960	µS/cm	±5%				Geotech	~~2GE1442~~	~~May-23~~
ORP	225	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	94.60	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

2G1R082A Exp. Nov 23 Lot 21K

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)

Time: 11:40

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.94	s.u.	±0.15 s.u.	P	Na	Geotech	2GE870	Mar-24
pH 7.00b	7.06	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.88	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	980	µS/cm	±5%			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: 14:24

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	3.94	s.u.	±0.1 s.u.	P	Na	Na	MSI	L344-09	12/14/2023
7.00a	6.94	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a	10.06	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1010	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.01	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)

Comments: Na

Signature:	[signature]	Date:	6-1-2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Remberton	Location:	Coffeen
Weather:	71°-86° F Sunny Wind 5ft/hr Humid	Environment:	grassy
Multiparameter Water Meter	Make: Horiba	Model: U 5000	Serial Number: PV2GKJDJ
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 3717-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	13	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2090	µS/cm	±5%				Geotech	~~2GE1442~~ ~~May-23~~ 2G10886 Exp Nov 23	
ORP	214	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.6	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

229 @ 25°C

ICV (Initial Calibration Verification)					Time: 0855			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.95	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	Mar-24
pH 7.00b	6.90	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.08	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1030	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1600			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	NO	N/A	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	10.08	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	961	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)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:			
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:	6/1/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD	Location:	Visty Coffeen
Weather:	72-88°F mostly sunny wind SE 8 mph	Environment:	grass

Multiparameter Water Meter	Make: Aquatroll	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	4.07	s.u.	±0.1 s.u.	pass	No	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 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)

JMD 6/1

Lot # 2GK0896 Exp. Nov/23

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	4.18	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:	[signature]	Date:	6/1/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed		Location:	Coffeen Power	
Weather:	72-88°F mostly sunny 8mph wind		Environment:	grass/gravel	
Multiparameter Water Meter	Make: Horiba	Model: U-5000	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	Y		MSI	L344-09	12/14/2023
pH 7.00a	7.00	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 Zero (DI)	.1	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%				Geotech	~~2GE1442~~	~~May-23~~
ORP	221	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.7	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

2GK0820 NOV 23 ~~2GE1442~~ ~~May-23~~ 7/13

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 833

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.			Geotech	2GC931	Mar-24
pH 10.00b	10.00	s.u.	±0.15 s.u.			Geotech,	2GE820	May-24
SC 1000	990	µS/cm	±5%			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.				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:

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

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Coffeen Power
Weather:	81° Cloudy	Environment:	Dry

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number:	U4UIFVTF	
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	4.03	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.92	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	9.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1970	µS/cm	±5%				Geotech	~~2GE1442~~	~~May-23~~
ORP	214	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.20	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

2GK0820 Nov. 23 (LH) mlj

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	N/A	Geotech	2GE870	Mar-24
pH 7.00b	7.00	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.87	s.u.	±0.15 s.u.			Geotech,	2GE820	May-24
SC 1000	980	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time: N/A

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	3.99	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	L344-09	12/14/2023
7.00a	6.97	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a	9.98	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1038	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.06	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	2.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments: N/A

Signature:	[signature]	Date:	6-7-2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD	Location:	Vistra Coffeen
Weather:	66-78°F cloudy wind NE 8mph	Environment:	grass, reeds

Multiparameter Water Meter	Make: Aquatroll	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	4.01	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.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	9.72	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2036.4	µS/cm	±5%				Geotech	~~2GE1442~~	~~May-23~~
ORP	226.1	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.09	%	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)

SMO 6/7

Lot # 2GK086 Exp. Nov/23

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.			Geotech	2GC931	Mar-24
pH 10.00b	9.86	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	992.0	µS/cm	±5%			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.				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	1026.9	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:	[signature]	Date:	6/7/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Auron Pemberton	Location:	Coffeen
Weather:	60s - 70s Cloudy Wind NE 5mph	Environment:	grass, dirt
Multiparameter Water Meter	Make: Horiba	Model: U50	Serial Number: PW2GKJD3
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 3717-7

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.91	s.u.	±0.1 s.u.	P	NO	—	MSI	L344-09	12/14/2023
pH 7.00a	7.68	s.u.	±0.1 s.u.	F	Yes	7.00	MSI	L343-07	12/9/2023
pH 10.00a	10.04	s.u.	±0.1 s.u.	P	No	—	MSI	M082-04	3/25/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	No	—	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2040	µS/cm	±5%	P	No	—	Geotech	~~2GE1442~~	~~May-23~~
ORP	220	mV	±15 mV	P	No	—	InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1	P	No	—	Macron	#000228049	8/26/2025
DO (Saturated)	99.3	%	97-100%	P	No	—	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.3	NTU	<2 NTU	P	No	—	Pace Labs	N/A (DI)	N/A (DI)

2GKD86 Nov. 23 (XXX) 7/23

Approx. every 4 hrs, unless only one well

230 @ 24°C

ICV (Initial Calibration Verification)					Time: 0840			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.02	s.u.	±0.15 s.u.	P	—	Geotech	2GE870	Mar-24
pH 7.00b	7.08	s.u.	±0.15 s.u.	P	—	Geotech	2GC931	Mar-24
pH 10.00b	10.10	s.u.	±0.15 s.u.	P	—	Geotech,	2GE820	May-24
SC 1000	989	µS/cm	±5%	P	—	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: ~~1530~~ 1730				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	P	NO	N/A	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	10.09	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1030	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)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
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:	6/7/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JO	Location:	Vistra Coffeen
Weather:	59-78° F hazy sun wind NNE 8 mph	Environment:	grass

Multiparameter Water Meter	Make: Aquatrall	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.				MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	4.34	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2033.8	µS/cm	±5%				Geotech	~~2GE1442~~	~~May-23~~
ORP	230.7	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.39	%	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)

Lot # 2GK086 Exp. Nov/23 Std 618

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.			Geotech	2GC931	Mar-24
pH 10.00b	9.87	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1028.9	µS/cm	±5%			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.				MSI	L343-07	12/9/2023
pH 10.00a	10.04	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1037.6	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)	0.34	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:	6/8/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Coffeen
Weather:	58°-78° Sunny Wind NE at 6mph	Environment:	grass field
Multiparameter Water Meter	Make: Horiba	Model: U5000	Serial Number: PJ26YJD3
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 3717.T

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	NO	NA	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	10.03	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	0.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%				Geotech	~~2GE1442~~	~~May-23~~
ORP	232	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	NA	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

2GK08L Nov. 23 KP 7/13

Approx. every 4 hrs, unless only one well

242 @ 15°C

ICV (Initial Calibration Verification)					Time: 0800			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.98	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	Mar-24
pH 7.00b	6.96	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.00	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	993	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1734			
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	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	10.09	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	999	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)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:			
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:	6/8/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Kimberlin	Location:	coffeen
Weather:	60°-78° Sunny NE 4mph	Environment:	grass, silt
Multiparameter Water Meter	Make: ~~AT~~ Horiba	Model: ~~U5000~~ 600	Serial Number: ~~262215~~ PW2 GYSD3
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 3717-Y

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	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.94	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.49	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	0.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2090	µS/cm	±5%				Geotech	~~2GE1442~~	~~May-23~~ 26K056 Nov'23
ORP	222	mV	±15 mV		YES	238	InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1		NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	98.6	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

238 @ 18°C

ICV (Initial Calibration Verification) — Time: 0801

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.94	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	Mar-24
pH 7.00b	6.87	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.07	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1010	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 1330

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	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.07	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	996	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)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time:

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:	6/9/2023

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,

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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
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

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
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

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
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

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
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

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

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
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

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
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

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
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

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
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 **Sampled:** 05/31/23 12:00
Name: G411 **Received:** 06/01/23 13:59
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF00183-10 **Sampled:** 06/01/23 09:38
Name: G314D **Received:** 06/01/23 13:59
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF00183-11 **Sampled:** 06/01/23 10:47
Name: G314 **Received:** 06/01/23 13:59
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF00183-12 **Sampled:** 06/01/23 11:12
Name: G218 **Received:** 06/01/23 13:59
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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
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

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
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

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
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

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
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 **Sampled:** 06/01/23 14:34
Name: G151 **Received:** 06/02/23 07:00
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF00247-02 **Sampled:** 06/01/23 15:32
Name: G215 **Received:** 06/02/23 07:00
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF00247-03 **Sampled:** 06/01/23 15:52
Name: G308 **Received:** 06/02/23 07:00
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF00917-01 **Sampled:** 06/05/23 16:53
Name: G276 **Received:** 06/06/23 17:25
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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 **Sampled:** 06/05/23 15:25
Name: G273 **Received:** 06/06/23 17:25
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF00917-03 **Sampled:** 06/05/23 13:05
Name: G307 **Received:** 06/06/23 17:25
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF00917-04 **Sampled:** 06/05/23 14:20
Name: G307D **Received:** 06/06/23 17:25
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF00917-05 **Sampled:** 06/05/23 15:43
Name: G306 **Received:** 06/06/23 17:25
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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 **Sampled:** 06/06/23 10:43
Name: G152 **Received:** 06/06/23 17:25
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF00917-07 **Sampled:** 06/06/23 12:20
Name: G153 **Received:** 06/06/23 17:25
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF00917-08 **Sampled:** 06/06/23 13:45
Name: G154 **Received:** 06/06/23 17:25
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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 **Sampled:** 06/06/23 11:16
Name: G271 **Received:** 06/06/23 17:25
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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 **Sampled:** 06/06/23 09:58
Name: G305 **Received:** 06/06/23 17:25
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF00917-11 **Sampled:** 06/06/23 13:07
Name: G405 **Received:** 06/06/23 17:25
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01342-01 **Sampled:** 06/06/23 16:38
Name: G301 **Received:** 06/07/23 17:02
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01342-02 **Sampled:** 06/06/23 15:15
Name: G313 **Received:** 06/07/23 17:02
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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 **Sampled:** 06/06/23 15:15
Name: G313 DUP **Received:** 06/07/23 17:02
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01342-04 **Sampled:** 06/06/23 16:05
Name: G402 **Received:** 06/07/23 17:02
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01342-05 **Sampled:** 06/07/23 10:02
Name: G315 **Received:** 06/07/23 17:02
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01342-06 **Sampled:** 06/07/23 11:25
Name: G403 **Received:** 06/07/23 17:02
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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 **Sampled:** 06/07/23 12:51
Name: G404 **Received:** 06/07/23 17:02
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01342-08 **Sampled:** 06/07/23 10:24
Name: G1001 **Received:** 06/07/23 17:02
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01342-09 **Sampled:** 06/07/23 11:58
Name: G401 **Received:** 06/07/23 17:02
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01342-10 **Sampled:** 06/07/23 10:08
Name: G155 **Received:** 06/07/23 17:02
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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 **Sampled:** 06/07/23 15:35
Name: G212 **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01733-02 **Sampled:** 06/07/23 16:49
Name: G213 **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01733-03 **Sampled:** 06/07/23 17:23
Name: G200 **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01733-04 **Sampled:** 06/07/23 17:55
Name: EB-01 **Received:** 06/09/23 06:50
Matrix: Ground Water - Equipment Blank **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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 **Sampled:** 06/08/23 12:00
Name: G275 **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01733-06 **Sampled:** 06/08/23 12:00
Name: G275 DUP **Received:** 06/09/23 06:50
Matrix: Ground Water - Field Duplicate **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01733-07 **Sampled:** 06/08/23 13:13
Name: G275D **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01733-08 **Sampled:** 06/08/23 09:25
Name: G280 **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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 **Sampled:** 06/08/23 14:32
Name: G283 **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01733-10 **Sampled:** 06/08/23 13:53
Name: G285 **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01733-11 **Sampled:** 06/08/23 13:48
Name: G281 **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01733-12 **Sampled:** 06/08/23 09:54
Name: G270 **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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 **Sampled:** 06/08/23 15:16
Name: G284 **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01733-14 **Sampled:** 06/08/23 16:56
Name: G217 **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01733-15 **Sampled:** 06/07/23 15:40
Name: R201 **Received:** 06/09/23 06:50
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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

Sample: GF01900-01 **Sampled:** 06/09/23 13:20
Name: G206 **Received:** 06/09/23 16:14
Matrix: Ground Water - Grab **PO #:** 1940007155

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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
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

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
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

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
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

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

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

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

Gail J Schindler

Certified by: Gail Schindler, Project Manager

Pace Analytical®

ANALYTICAL REPORT

July 13, 2023

Pace IR - Peoria, IL

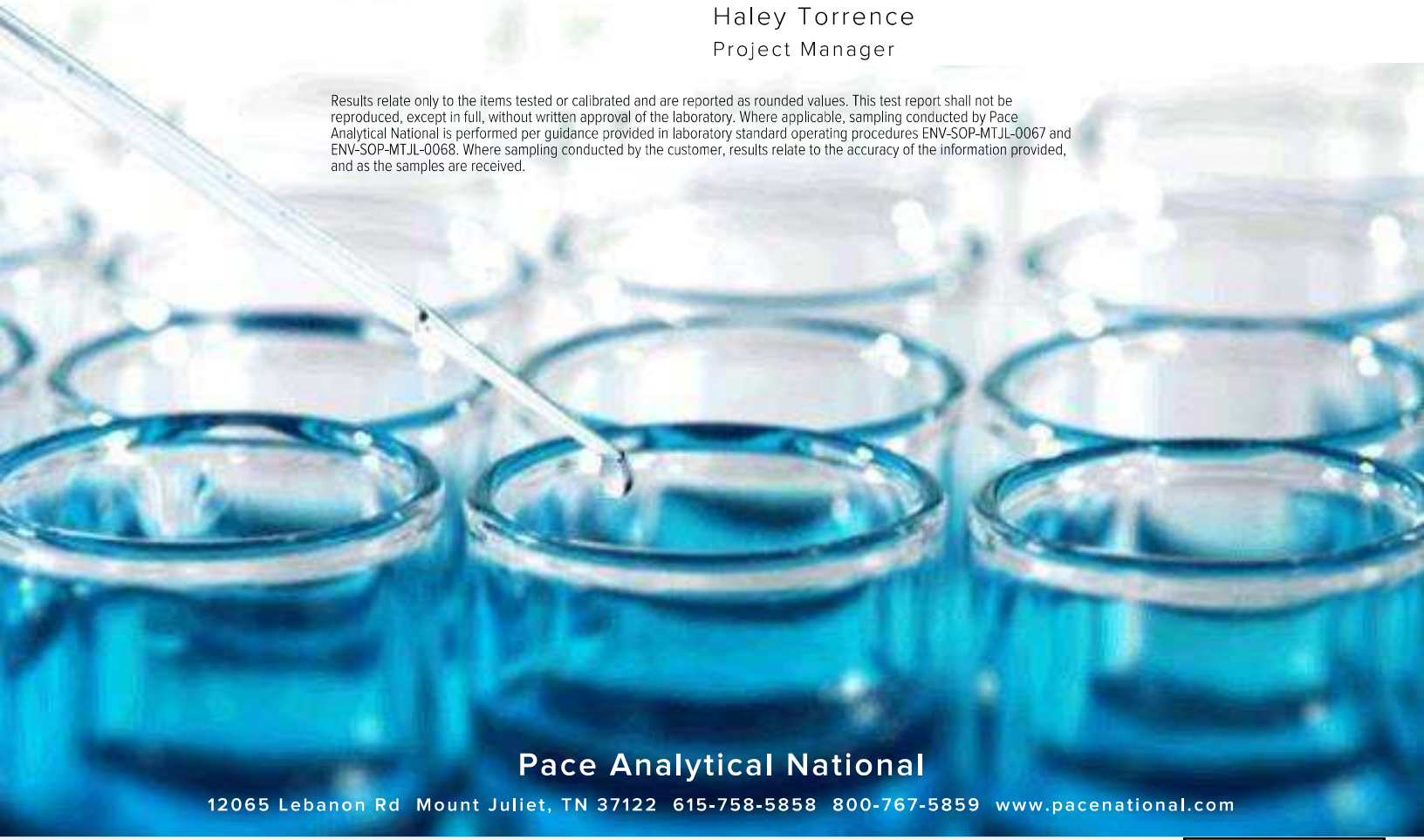
Sample Delivery Group:	L1623496
Samples Received:	06/07/2023
Project Number:	GF00183
Description:	Vistra-Coffeen
Site:	001
Report To:	Gail Schindler 2231 W. Altorfer Drive Peoria, IL 61615

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.



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SAMPLE SUMMARY

G302 L1623496-01 Non-Potable Water

Collected by | Collected date/time 05/31/23 16:00 | Received date/time 06/07/23 09:00

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

G302 DUP L1623496-02 Non-Potable Water

Collected by | Collected date/time 05/31/23 16:00 | Received date/time 06/07/23 09:00

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

G303 L1623496-03 Non-Potable Water

Collected by | Collected date/time 05/31/23 17:23 | Received date/time 06/07/23 09:00

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

G316 L1623496-04 Non-Potable Water

Collected by | Collected date/time 05/31/23 10:33 | Received date/time 06/07/23 09:00

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

G406 L1623496-05 Non-Potable Water

Collected by | Collected date/time 05/31/23 16:45 | Received date/time 06/07/23 09:00

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

G406 DUP L1623496-06 Non-Potable Water

Collected by | Collected date/time 05/31/23 16:45 | Received date/time 06/07/23 09:00

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

SAMPLE SUMMARY

G407 L1623496-07 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		05/31/23 14:09	06/07/23 09:00

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

G410 L1623496-08 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		05/31/23 13:27	06/07/23 09:00

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

G411 L1623496-09 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		05/31/23 12:00	06/07/23 09:00

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

G314D L1623496-10 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/01/23 09:38	06/07/23 09:00

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

G314 L1623496-11 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/01/23 10:47	06/07/23 09:00

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

G218 L1623496-12 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/01/23 11:12	06/07/23 09:00

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

SAMPLE SUMMARY

G310 L1623496-13 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/01/23 12:42	06/07/23 09:00	
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

G312 L1623496-14 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/01/23 14:01	06/07/23 09:00	
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

G279 L1623496-15 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/01/23 12:07	06/07/23 09:00	
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

G277 L1623496-16 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/01/23 10:27	06/07/23 09:00	
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

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All 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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.50		0.415	0.700	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

G302 DUP SAMPLE RESULTS - 02

Collected date/time: 05/31/23 16:00 L1623496

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	2.46		0.442	0.673	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.22		0.396	0.652	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.81		0.376	0.544	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.262	U	0.457	0.778	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

G406 DUP SAMPLE RESULTS - 06

Collected date/time: 05/31/23 16:45 L1623496

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.482	J	0.351	0.597	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.792		0.336	0.589	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	3.15		0.684	0.624	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.623	J	0.465	0.642	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	2.54		0.515	0.616	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.924		0.336	0.483	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.05		0.404	0.668	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.52		0.457	0.576	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.845		0.336	0.543	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.107	U	0.370	0.651	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.05		0.341	0.526	07/10/2023 16:46	WG2089578

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Method Blank (MB)

(MB) R3946996-1 07/05/23 21:27

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	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	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	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	MSD Qualifier	RPD %	MS RER	RPD Limits %
ium-226	20.0	0.469	16.8	17.9	81.6	87.0	1	75.0-125			6.23		20
) Barium-133		*93.5*			*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 + / -	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	0.651	0.404	0.430	0.543	0.474	0.430	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. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0575	16.6	19.9	82.7	99.0	1	75.0-125			17.9		20
(T) Barium-133		*80.0*			*93.0*	*80.9*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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.

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: [X] YES [ ] NO

Pace Analytical®
www.pacelabs.com

Owner Received Date: 6/1/2023
Results Requ By: 6/27/2023

Workorder: GF00183 (Page 1) **Workorder Name:** Vistra - Coffeen

Report To:	Subcontract 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

A172

LL623496

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226/228	LAB USE ONLY
1	G302	GRAB	5/31/2023 16:00	GF00183-01	GW		X	-01
2	G302 DUP	GRAB	5/31/2023 16:00	GF00183-02	GW		X	-02
3	G303	GRAB	5/31/2023 17:23	GF00183-03	GW		X	-03
4	G316	GRAB	5/31/2023 10:33	GF00183-04	GW		X	-04
5	G406	GRAB	5/31/2023 16:45	GF00183-05	GW		X	-05
6	G406 DUP	GRAB	5/31/2023 16:45	GF00183-06	GW		X	-06
7	G407	GRAB	5/31/2023 14:09	GF00183-07	GW		X	-07
8	G410	GRAB	5/31/2023 13:27	GF00183-08	GW		X	-08
9	G411	GRAB	5/31/2023 12:00	GF00183-09	GW		X	-09
10	G314D	GRAB	6/1/2023 9:38	GF00183-10	GW		X	-10

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1		6/6/23 1235	Hailey Robertson	6/7/23 0900	Needs reported as 226, 228 and also combined 226/228
2					Include QC summary and edd
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.

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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		

Internal Transfer Chain of Custody

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State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Owner Received Date: 6/1/2023
Results Requ By: 6/27/2023

Workorder: GF00183 (Page 2) **Workorder Name:** Vistra - Coffeen

Report To:	Subcontract 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

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226/228	LAB USE ONLY
1	G314	GRAB	6/1/2023 10:47	GF00183-11	GW		X	L1623496-11
2	G218	GRAB	6/1/2023 11:12	GF00183-12	GW		X	-12
3	G310	GRAB	6/1/2023 12:42	GF00183-13	GW		X	-13
4	G312	GRAB	6/1/2023 14:01	GF00183-14	GW		X	-14
5	G279	GRAB	6/1/2023 12:07	GF00183-15	GW		X	-15
6	G277	GRAB	6/1/2023 10:27	GF00183-16	GW		X	-16
7								
8								
9								
10								

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[signature]	6/6/23 1255	Hailey Robertson	06/7/23 0900	Needs reported as 226, 228 and also combined 226/228
2					Include QC summary and edd
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.

L1623496

Pace Analytical®
www.pacelabs.com

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 [X] 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.

L1623496

Tracking Numbers	NS A7 Temperature
6319 5999 9916 0	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

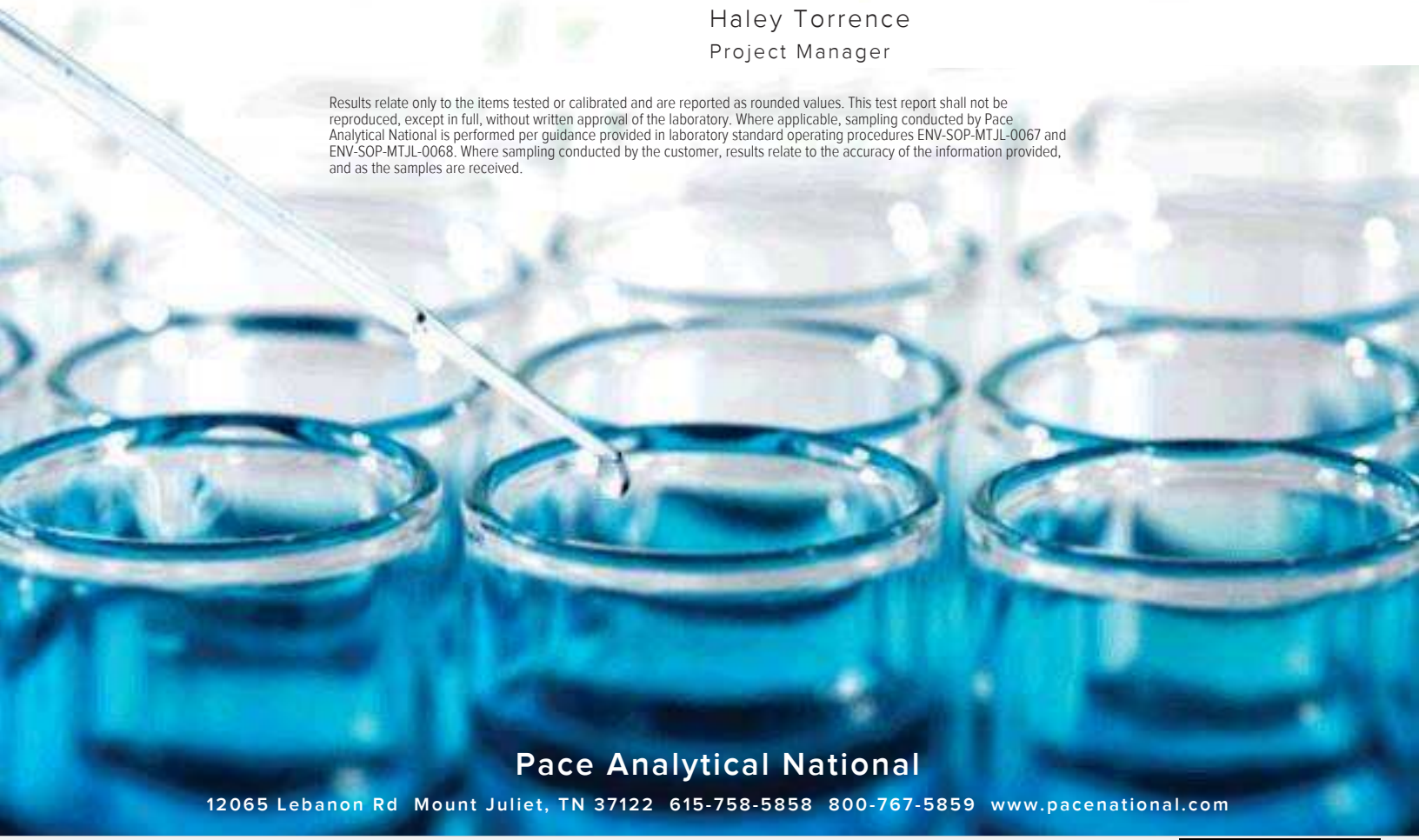
Pace IR - Peoria, IL

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: 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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SAMPLE SUMMARY

G151 L1623493-01 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/01/23 14:34	06/07/23 09:00

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

G215 L1623493-02 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/01/23 15:32	06/07/23 09:00

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

G308 L1623493-03 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/01/23 15:52	06/07/23 09:00

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

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All 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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.268	U	0.411	0.724	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.881		0.571	0.864	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.481	J	0.437	0.713	07/06/2023 21:21	WG2089290

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

WG2085317 QUALITY CONTROL SUMMARY

Radiochemistry by Method 904/9320 L1623493-01,02,03

Method Blank (MB)

(MB) R3946996-1 07/05/23 21:27

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	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	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*							

Radiochemistry by Method SM7500Ra B-M

Method Blank (MB)

(MB) R3946774-1 07/06/23 21:21

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	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	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	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	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	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	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
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	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	%	%		%			%		%
ium-226	20.0	0.469	16.8	17.9	81.6	87.0	1	75.0-125			6.23		20
) Barium-133		*93.5*			*84.3*	*89.3*							

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.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Internal Transfer Chain of Custody

Pace Analytical
www.pacelabs.com

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Owner Received Date: 6/1/2023
Results Requ By: 6/27/2023

Workorder: GF00247 **Workorder Name:** Vistra - Coffeen

A173

Report To:	Subcontract 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

LL623493
LAB USE ONLY

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226/228	
1	G151	GRAB	6/1/2023 14:34	GF00247-01	GW		X	-01
2	G215	GRAB	6/1/2023 15:32	GF00247-02	GW		X	-02
3	G308	GRAB	6/1/2023 15:52	GF00247-03	GW		X	-03
4								
5								
6								
7								
8								
9								
10								

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1		6/6/23 1235	Hailey Rotuber	6/7/23 0900	Needs reported as 226, 228 and also combined 226/228
2					Include QC summary and edd
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.

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

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		

631959998966

20.7+0=20.7
NS A7

L1623493

Pace Analytical
www.pacelabs.com

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	
			Receiving Region (80%)	Client Services Dept.
radiological	38	$687.90	$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 [X] 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.

FMT-ALL-C-001 rev.00 24March2009 Page 1 of 1

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103

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

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.

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SAMPLE SUMMARY

G276 L1626090-01 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/05/23 16:53	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	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

G273 L1626090-02 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/05/23 15:25	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	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

G307 L1626090-03 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/05/23 13:05	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	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

G307D L1626090-04 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/05/23 14:20	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	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

G306 L1626090-05 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/05/23 15:43	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	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

G152 L1626090-06 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/06/23 10:43	06/14/23 09:00	
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

SAMPLE SUMMARY

G153 L1626090-07 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/06/23 12:20	06/14/23 09:00	
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

G154 L1626090-08 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/06/23 13:45	06/14/23 09:00	
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

G271 L1626090-09 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/06/23 11:16	06/14/23 09:00	
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

G305 L1626090-10 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/06/23 09:58	06/14/23 09:00	
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

G405 L1626090-11 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/06/23 13:07	06/14/23 09:00	
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

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All 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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.966		0.329	0.558	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.248	U	0.294	0.548	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.528	J	0.331	0.539	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.02		0.422	0.720	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

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

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

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

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

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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.63		0.405	0.675	07/14/2023 21:08	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.68		0.562	0.972	07/14/2023 21:08	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Method Blank (MB)

(MB) R3949806-1 07/14/23 16:39

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	-0.0717	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	J	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*							

Radiochemistry by Method 904/9320

Method Blank (MB)

(MB) R3949833-1 07/14/23 21:08

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	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*							

Method Blank (MB)

(MB) R3947927-1 07/12/23 09:41

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	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

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	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*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

A102

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Owner Received Date: 6/6/2023

Results Requ By: 7/3/2023

Workorder: GF00917 **Workorder Name:** Vistra - Coffeen

Report To:	Subcontract 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

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226/228 ←2	LAB USE ONLY
1	G276	GRAB	6/5/2023 16:53	GF00917-01	GW		X	-01
2	G273	GRAB	6/5/2023 15:25	GF00917-02	GW		X	-02
3	G307	GRAB	6/5/2023 13:05	GF00917-03	GW		X	-03
4	G307D	GRAB	6/5/2023 14:20	GF00917-04	GW		X	-04
5	G306	GRAB	6/5/2023 15:43	GF00917-05	GW		X	-05
6	G152	GRAB	6/6/2023 10:43	GF00917-06	GW		X	-06
7	G153	GRAB	6/6/2023 12:20	GF00917-07	GW		X	-07
8	G154	GRAB	6/6/2023 13:45	GF00917-08	GW		X	-08
9	G271	GRAB	6/6/2023 11:16	GF00917-09	GW		X	-09
9	G305	GRAB	6/6/2023 9:58	GF00917-10	GW		X	-10
10	G405	GRAB	6/6/2023 13:07	GF00917-11	GW		X	-11

L1621090

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1		6/13/23 1250	Hanley Rotton	6/14/23 0900	Needs reported as 226, 228 and also combined 226/228
2					Include QC summary and edd
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.

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		

PH-10BDHJ321 TRC-21441
CR5-20221

L16220910

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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	
			Receiving Region (80%)	Client Services Dept.
radiological	38	$2,522.30	$2,017.84	$504.46
		TOTAL	$2,017.84	$504.46

* Custom Revenue Allocation

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: [ ] Yes [X] 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.

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103

Tracking Numbers	GB A7 Temperature
6319 60000 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

U1621090

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

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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SAMPLE SUMMARY

G301 L1626086-01 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/06/23 16:38	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

G313 L1626086-02 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/06/23 15:15	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	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

G313 DUP L1626086-03 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/06/23 15:15	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

G402 L1626086-04 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/06/23 16:05	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 19:57	RGT	Mt. Juliet, TN

G315 L1626086-05 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/07/23 10:02	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

G403 L1626086-06 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				06/07/23 11:25	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	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

SAMPLE SUMMARY

G404 L1626086-07 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/07/23 12:51	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	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

G1001 L1626086-08 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/07/23 10:24	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	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

G401 L1626086-09 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/07/23 11:58	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	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

G155 L1626086-10 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/07/23 10:08	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	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

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All 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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-1.73	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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.0829	U	0.524	0.970	07/14/2023 16:39	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.0829	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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.879		0.534	0.843	07/14/2023 16:39	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

G313 DUP SAMPLE RESULTS - 03

Collected date/time: 06/06/23 15:15 L1626086

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.325	J	0.431	0.755	07/14/2023 16:39	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

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

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

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

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

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

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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.30		0.739	1.08	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Method Blank (MB)

(MB) R3949806-1 07/14/23 16:39

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-228	-0.0717	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	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-228	0.0607	0.339	0.611	0.575	0.509	0.611	1	162	0.841	J	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	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
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	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-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*							

Radiochemistry by Method SM7500Ra B-M

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

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	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 %	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*							

Radiochemistry by Method SM7500Ra B-M

Method Blank (MB)

(MB) R3947927-1 07/12/23 09:41

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	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

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	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*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

A100

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Workorder: GF01342 **Workorder Name:** Vistra - Coffeen

Owner Received Date: 6/7/2023 **Results Requ By:** 7/3/2023

Report To:	Subcontract 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

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226/228 <2	LAB USE ONLY
1	G301	GRAB	6/6/2023 16:38	GF01342-01	GW		X	-01
2	G313	GRAB	6/6/2023 15:15	GF01342-02	GW		X	-02
3	G313 DUP	GRAB	6/6/2023 15:15	GF01342-03	GW		X	-03
4	G402	GRAB	6/6/2023 16:05	GF01342-04	GW		X	-04
5	G315	GRAB	6/7/2023 10:02	GF01342-05	GW		X	-05
6	G403	GRAB	6/7/2023 11:25	GF01342-06	GW		X	-06
7	G404	GRAB	6/7/2023 12:51	GF01342-07	GW		X	-07
8	G1001	GRAB	6/7/2023 10:24	GF01342-08	GW		X	-08
9	G401	GRAB	6/7/2023 11:58	GF01342-09	GW		X	-09
10	G155	GRAB	6/7/2023 10:08	GF01342-10	GW		X	-10

L1626086

Transfers	Released By	Date/Time	Reveived By	Date/Time	Comments
1		6/13/23 1250	Hailey Bahura	6/14/23 0900	Needs reported as 226, 228 and also combined 226/228 Include QC summary and edd
2					
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.

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

Page 1 of 1

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		

PH-10BDH432: TRC 2122 81
CR6-20221V

L1621086

Pace Analytical®
www.pacelabs.com

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 Reqion Department	**Acctg. Code**	**Totals from above**	**Revenue Allocation**	
			Receiving Region (80%)	Client Services Dept.
radiological	38	$2,293.00	$1,834.40	$458.60
		TOTAL	$1,834.40	$458.60

* Custom Revenue Allocation

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: [ ] Yes [X] 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	GPM 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

LL0210686

Pace Analytical

ANALYTICAL REPORT

July 19, 2023

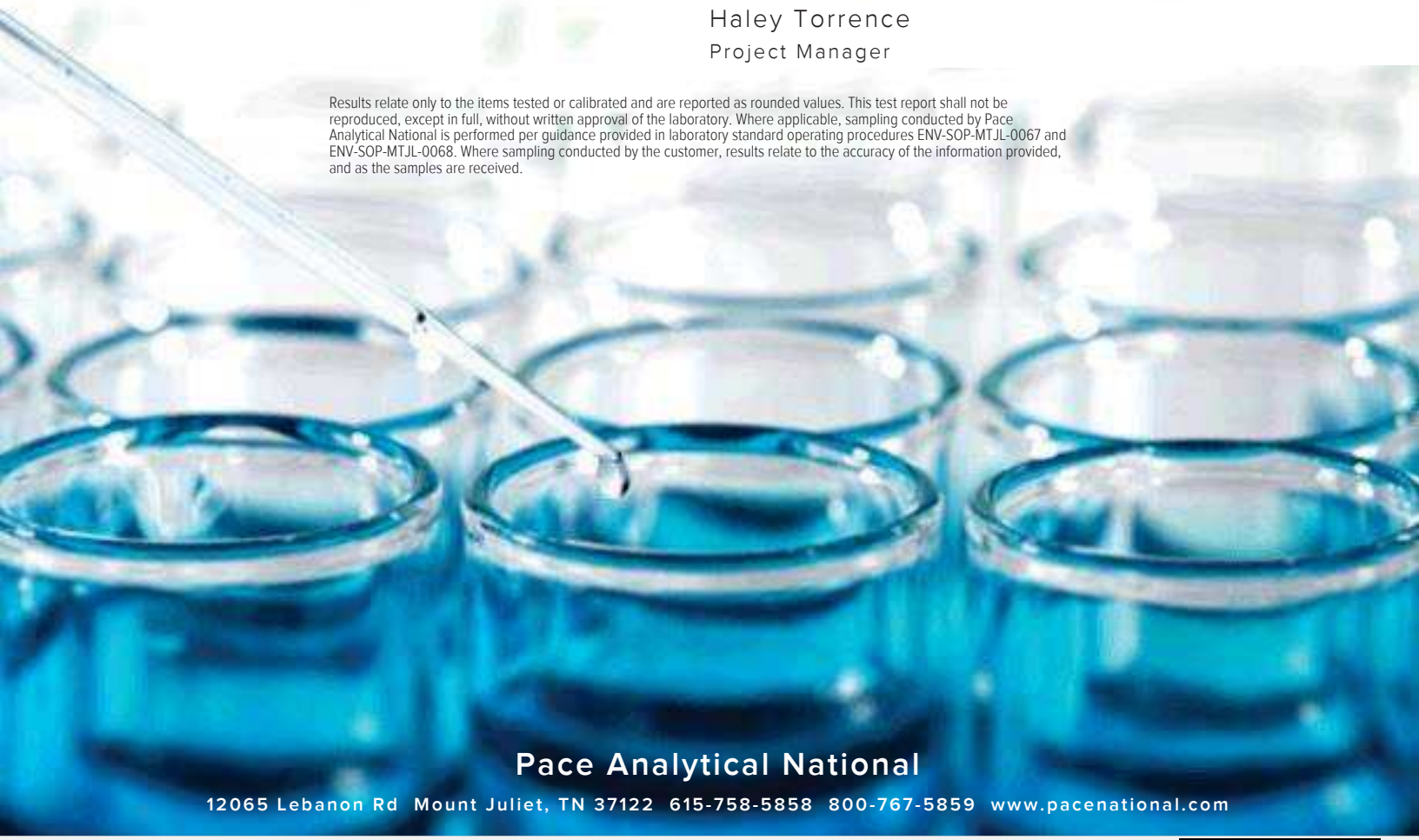
Pace IR - Peoria, IL

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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SAMPLE SUMMARY

G212 L1626083-01 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/07/23 15:35	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	07/13/23 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

G213 L1626083-02 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/07/23 16:49	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	07/13/23 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

G200 L1626083-03 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/07/23 17:23	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	07/13/23 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

EB-01 L1626083-04 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/07/23 17:55	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	07/13/23 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

G275 L1626083-05 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/08/23 12:00	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	07/13/23 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

G275 DUP L1626083-06 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/08/23 12:00	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	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

SAMPLE SUMMARY

G275D L1626083-07 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/08/23 13:13	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	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

G280 L1626083-08 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/08/23 09:25	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	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

G283 L1626083-09 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/08/23 14:32	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	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

G285 L1626083-10 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/08/23 13:53	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	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

G281 L1626083-11 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/08/23 13:48	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

G270 L1626083-12 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/08/23 09:54	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

SAMPLE SUMMARY

G284 L1626083-13 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				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

G217 L1626083-14 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				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

R201 L1626083-15 Non-Potable Water

			Collected by	Collected date/time	Received date/time	
				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

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All 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

Haley Torrence
Project Manager

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.194	U	0.446	0.838	07/13/2023 20:53	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.399	J	0.394	0.642	07/13/2023 20:53	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	4.48		0.736	0.893	07/13/2023 20:53	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.880		0.400	0.558	07/13/2023 20:53	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.0751	U	0.388	0.749	07/13/2023 20:53	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

G275 DUP SAMPLE RESULTS - 06 L1626083

Collected date/time: 06/08/23 12:00

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.903	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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.0267	U	0.473	0.893	07/14/2023 10:35	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.0267	U	0.149	0.279	07/10/2023 21:49	WG2090830
(T) Barium-133	*107*			*30.0-143*	*07/10/2023 21:49*	WG2090830

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.34		0.459	0.730	07/14/2023 10:35	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.839		0.524	0.764	07/14/2023 10:35	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	2.88		0.547	0.791	07/14/2023 10:35	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	3.10		0.378	0.516	07/14/2023 10:35	WG2090830

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.000	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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.000	U	0.405	0.769	07/14/2023 10:35	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	-0.0479	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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.485	J	0.471	0.772	07/14/2023 10:35	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.01		0.488	0.742	07/14/2023 10:35	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.574	J	0.445	0.778	07/14/2023 10:35	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.50		0.501	0.778	07/14/2023 16:39	WG2090952

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

WG2090007

Radiochemistry by Method 904/9320

QUALITY CONTROL SUMMARY

L1626083-01,02,03,04,05,06,07,08,09,10,11,12,13,14

Method Blank (MB)

(MB) R3949552-1 07/13/23 20:53

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	0.147	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	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*							

WG2090394: QUALITY CONTROL SUMMARY

Radiochemistry by Method 904/9320 L1626083-15

Method Blank (MB)

(MB) R3949806-1 07/14/23 16:39

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	-0.0717	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	J	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	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*							

Method Blank (MB)

(MB) R3947847-1 07/11/23 15:40

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	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

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	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 %	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*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

A099

Internal Transfer Chain of Custody

Pace Analytical®
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State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Owner Received Date: 6/9/2023

Results Requ By: 7/3/2023

Workorder: GF01733 **Workorder Name:** Vistra - Coffeen

Report To:	Subcontract 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

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226/228 ✓	LAB USE ONLY
1	G212	GRAB	6/7/2023 15:35	GF01733-01	GW		X	-01
2	G213	GRAB	6/7/2023 16:49	GF01733-02	GW		X	-02
3	G200	GRAB	6/7/2023 17:23	GF01733-03	GW		X	-03
4	EB-01	GRAB	6/7/2023 17:55	GF01733-04	GW		X	-04
5	G275	GRAB	6/8/2023 12:00	GF01733-05	GW		X	-05
6	G275 DUP	GRAB	6/8/2023 12:00	GF01733-06	GW		X	-06
7	G275D	GRAB	6/8/2023 13:13	GF01733-07	GW		X	-07
8	G280	GRAB	6/8/2023 9:25	GF01733-08	GW		X	-08
9	G283	GRAB	6/8/2023 14:32	GF01733-09	GW		X	-09
10	G285	GRAB	6/8/2023 13:53	GF01733-10	GW		X	-10

L1626083

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1		6/13/23 1250	Hailey Robertson	6/14/23 0900	Needs reported as 226, 228 and also combined 226/228
2					Include QC summary and edd
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.

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		

PH-10BDH4321 [illegible]
CR6-20221V

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Workorder: GF01733 **Workorder Name:** Vistra - Coffeen

Owner Received Date: 6/9/2023 **Results Requ By:** 7/3/2023

Report To:	Subcontract 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

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226/228	LAB USE ONLY
1	G281	GRAB	6/8/2023 13:48	GF01733-11	GW		X	-11
2	G270	GRAB	6/8/2023 9:54	GF01733-12	GW		X	-12
3	G284	GRAB	6/8/2023 15:16	GF01733-13	GW		X	-13
4	G217	GRAB	6/8/2023 16:56	GF01733-14	GW		X	-14
5	R201	GRAB	6/7/2023 15:40	GF01733-15	GW		X	-15
6								
7								
8								
9								
10								

LL6210083

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1			Hailey Robertson	6/14/23 0900	Needs reported as 226, 228 and also combined 226/228 Include QC summary and edd
2					
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.

L1627083

Pace Analytical®
www.pacelabs.com

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	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		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	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	$3,439.50	$2,751.60	$687.90
		TOTAL	$2,751.60	$687.90

* Custom Revenue Allocation

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: [ ] Yes [X] 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.

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103

L16260083

Tracking Numbers	GBAT 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

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.

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SAMPLE SUMMARY

G206 L1626087-01 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/09/23 13:20	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	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

G206 DUP L1626087-02 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/09/23 13:20	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	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

G206D L1626087-03 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/09/23 12:29	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	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

G209 L1626087-04 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		06/09/23 09:44	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	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

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All 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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.227	U	0.385	0.656	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

G206 DUP SAMPLE RESULTS - 02

Collected date/time: 06/08/23 13:20 L1626087

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.79		0.519	0.704	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.701		0.380	0.591	07/14/2023 16:39	WG2091007

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.0301	U	0.337	0.609	07/14/2023 16:39	WG2090394
(T) Barium	*74.4*			*30.0-143*	*07/14/2023 16:39*	WG2090394
(T) Yttrium	*114*			*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	0.292	J	0.407	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	0.262	J	0.229	0.267	07/12/2023 09:41	WG2091007
(T) Barium-133	*91.5*			*30.0-143*	*07/12/2023 09:41*	WG2091007

Radiochemistry by Method 904/9320

Method Blank (MB)

(MB) R3949806-1 07/14/23 16:39

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	-0.0717	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	J	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*							

Radiochemistry by Method SM7500Ra B-M

Method Blank (MB)

(MB) R3947927-1 07/12/23 09:41

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	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

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	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*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

Internal Transfer Chain of Custody

A101

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Owner Received Date: 6/9/2023

Results Requ By: 7/3/2023

Workorder: GF01900 **Workorder Name:** Vistra - Coffeen

Report To:	Subcontract 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

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226/228 (47)	LAB USE ONLY
1	G206	GRAB	6/9/2023 13:20	GF01900-01	GW		X	-01
2	G206 DUP	GRAB	6/9/2023 13:20	GF01900-02	GW		X	-02
3	G206D	GRAB	6/9/2023 12:29	GF01900-03	GW		X	-03
4	G209	GRAB	6/9/2023 9:44	GF01900-04	GW		X	-04
5								
6								
7								
8								
9								
10								

U624088

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1		6/13/23 1250	Hailly Robertson	6/14/23 0900	Needs reported as 226, 228 and also combined 226/228 Include QC summary and edd
2					
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.

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		

PH-1080H432 TRC 2142111
CR6-202211

L1626087

Pace Analytical
www.pacelabs.com

Ship to :
Pace Analytical Services, LLC
1638 Roseytown Rd - Suites 2,3,4
Greensburg, PA 15601

(724)850-5600

INTER_LABORATORY WORK ORDER # GF01900
(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

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		4		4	$229.30	$917.20
						$0.00
						$0.00
					TOTAL	$917.20

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

Receiving Reqion 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 [X] 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.

11/22/2007

Tracking Numbers	GBAT Temperature
6319 6008 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

GF00140
VMW 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 #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G101	WT		5/31/23	1352		4																								
2	G107				1419		4																								
3	G109				1530		4																								
4	G110				1445		4																								
5	G119				1024		4																								
6	G120				1020		4																								
7	G121				1120		4																								
8	G122				1126		4																								
9	G123				1220		4																								
10	G124				1250		4																								
11	G125				1310		4																								
12	G302				1600		13																								
13	G302 Dup				1600		13																								
14	G303				1723		13																								
15	G316				1033		13																								
16																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q2 Rev 1	Joseph R Reed	6/1/23	1120		6/1/23	1105				
		6/1/23	1359		6/1/23	13:59	3.5	Y	N	Y
							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 Reed

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY): 6/1/23

GF00140
vmw 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, CMF GYPSUM STACK POND
COF-257-103

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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; Oil OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G406	WT		5/31/23	1645		14																							
2	G406 Dup				1645		14																							
3	G407				1409		14																							
4	G410				1327		6																							
5	G411				1200		6																							
6	G314D	WT		6/1/23	0938		13																							
7	G314	WT		6/1/23	1047		13																							
8	G218	WT	G	6/1/23	1112		15																							
9	G101 DUP	WT		5/31/23	1352		4																							
10	G124 DUP	WT		5/31/23	1250		4																							
11																														
12																														
13																														
14																														
15																														
16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q2 Rev 1		6/1/23	1106		6/1/23	1106				
		6/1/23	1353		6/1/23	13:59	3.5	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 6/1/23

YS 6-19-23

GF00140
VMW 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.

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103

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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G214		G	6/1/23 GS 6-19-23	1300		6																									
2	G111		G	6/1/23	1345		8																									
3	G310		G	6/1/23	1242		13																									
4	G312		G	6/1/23	1401		13																									
5	G279		G	6/1/23	1207		15																									
6	G277		G	6/1/23	1027		15																									
7	G111 DUP GS 6-19-23		G	6/1/23	1345		4																									
8																																
9																																
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	Brenden Glenn	6/1/23	1645							
	GS 6-19-23			Grace Jackson	6/1/23	14:45	24.2	Y	N	Y
							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: Brenden Glenn

SIGNATURE of SAMPLER: Brenden Glenn DATE Signed (MM/DD/YY): 06/01/23

GF00247
VMW 6-2-23.

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	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 DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G108		WT	G	6/1/23	1531		4																								
2	T127					1630		6																								
3	T128					1528		6																								
4	G151					1434		4																								
5	G215					1532		15																								
6	G308					1552		13																								
7	G310					1242		13																								
8	G312					1401		13																								
9																																
10																																
11																																
12																																
13																																
14																																
15																																
16																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q2 Rev 1	Joseph R Rea	6/1/23	1935	Vince Wagner	6-2-23	700	4.1	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joe Reed
SIGNATURE of SAMPLER: Joseph R Rea
DATE Signed (MM/DD/YY): 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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

GP009917 gej

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other
1	G210			6/5/23	1703		6	X	X	X		X			
2	G216			"	1550		6	X	X	X		X			
3	G211			"	1345		6	X	X	X		X			
4	G276			"	1653		15	X	X	X		X			
5	G273			"	1525		15	X	X	X		X			
6	G307			"	1305		13	X	X	X					
7	G307D			"	1420		13	X	X	X					
8	G306			"	1543		13	X	X	X					
9	G216 DUP			"	1550		6	X	X	X		X			
10															
11															
12															
13															
14															
15															
16															

Requested Analysis Filtered (Y/N)

Y/N	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.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q2 Rev 1					6-6-23	1725	4.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James David

SIGNATURE of SAMPLER: James David

DATE Signed (MM/DD/YY): 6/6/23

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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

GF000917 gef

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N ↕ 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	G103			6/6/23	1301		7																								
2	G152				1043		5																								
3	G153				1220		5																								
4	G154				1345		6																								
5	G271				1116		15																								
6	G305				958		13																								
7	G405				1307		14																								
8	XPW01				1105		12																								
9	XPW02				1213		9																								
10																															
11																															
12																															
13																															
14																															
15																															
16																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q2 Rev 1										
				Van Wagner	6-6-23	1725	4.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 6/6/23

GF01342
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.

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 STATE: IL

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G102	WT	G	6/6/23	1411		7	X	X	X		X																				
2	R104	WT	G	6/6/23	1519		7	X	X	X		X																				
3	G105	WT	G	6/6/23	1626		7	X	X	X		X																				
4	G301	WT	G	6/6/23	1638		13	X	X	X																						
5	G313	WT	G	6/6/23	1515		13	X	X	X																						
6	G313 DUP	WT	G	6/6/23	1515		13	X	X	X																						
7	G402	WT	G	6/6/23	1605		14	X	X	X		X																				
8																																
9																																
10																																
11																																
12																																
13																																
14																																
15																																
16																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q2 Rev 1		6/7/23	1351		6/7/23	1351				
		6/7/23	1702		6-7-23	1702	4.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Hannah Elizabeth Voelker

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 06/06/23

GF01342
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.

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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

ITEM #	Section D Required Client Information: 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G315	WT	G	6/7/23	1002		13	X	X	X																				
2	G403	WT	G	6/7/23	1125		14	X	X	X		X																		
3	G404	WT	G	6/7/23	1251		14	X	X	X		X																		
4	L201	WT	G	6/7/23	1329		21	X	X	X	X	X	X																	
5	G1001	WT	G	6/7/23	1024		13	X	X	X		X																		
6	G401	WT	G	6/7/23	1158		14	X	X	X		X																		
7	X201	WT	G	6/7/23	1236		12	X	X	X																				
8	G278	WT	G	6/7/23	1338		6	X	X	X		X																		
9	G208	WT	G	6/7/23	1352		6	X	X	X		X																		
10	G106	WT	G	6/7/23	1215		7	X	X	X		X																		
11	G126	WT	G	6/7/23	1100		4	X	X	X		X																		
12	G155	WT	G	6/7/23	1008		5	X	~~X~~	X		X																		
13																														
14																														
15																														
16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q2 Rev 1		6/7/23	1701		~~6/7/23~~ 6-9-23	1702	4.1	Y	N	Y
					6-7-23	1702				

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Kyle Lane	Temp in °C	Received on Ice (Y/N)
SIGNATURE of SAMPLER:		Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DATE Signed (MM/DD/YY):	6/7/23		

GF01733
VMW 6-9-23

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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G212			6/7/23	1535		15	X	X	X		X																				
2	G213				1649		15	X	X	X		X																				
3	G200				1723		15	X	X	X		X																				
4	R201				1540		15	X	X	X		X																				
5	EB-01				1755		15	X	X	X		X																				
6	G235			6/8/23	1200		15	X	X	X																						
7	G275 Dup				1200		15	X	X	X		X																				
8	G275D				1313		13	X	X	X																						
9	G280				0925		15	X	X	X		X																				
10	G283				1432		13	X	X	X																						
11	G285				1353		13	X	X	X																						
12	R205				1515		6	X	X	X		X																				
13	G281				1348		14	X	X	X		X																				
14	G272				1210		6	X	X	X		X																				
15	G274				1104		6	X	X	X		X																				
16	G270				0954		15	X	X	X		X																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q2 Rev 1	James David	6/8/23	2055	Vern Wagner	6-9-23	650	4.2	Y	N	Y
							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: James David

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/8/23

GF01733
VMW 6-9-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 6 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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G284			6/8/23	1516		13	X	X	X																					
2	G717			1	1656		15	X	X	X	X																				
3	NE Riser			1	1720		12	X	X	X																					
4																															
5																															
6																															
7																															
8																															
9																															
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	James David	6/8/23	2055							
					6-9-23	650	4.2	Y	N	Y
							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: James David

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/8/23

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:

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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 STATE: IL

6F01909

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

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)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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_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	G206	WT	G	6/14/23	1320		15	X	X	X		X																				
2	G206 DUP	WT	G	6/9/23	1320		15	X	X	X		X																				
3	G206D	WT	G	6/9/23	1229		13	X	X	X		X																				
4	G207	WT	G	6/9/23	1034		6	X	X	X		X																				
5	G209	WT	G	6/9/23	0944		15	X	X	X		X																				
6	EB02	WT	G	6/14/23	1343		6	X	X	X		X																				
7																															
8																															
9																															
10																															
11																															
12																															
13																															
14																															
15																															
16																															

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q2 Rev 1		6/9/23	1614		6-9-23	1614	3.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 06/09/23

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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 15 samples for COF_257_103 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

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
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	26
Dates Report	27
Quality Control Results	40
Receiving Check List	180
Chain of Custody	Appended

Definitions

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

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

Client: Ramboll
Work Order: 23071810
Client Project: COF-23Q3
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 measurment was also completed on 9/19/23. Resamples will be reported. EAH 9/19/23

Per Eric Bauer's request, only COF_257_103 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

Springfield
Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City
Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
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

Chicago
Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Accreditations

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-025 **Client Sample ID:** G206

Matrix: GROUNDWATER **Collection Date:** 08/14/2023 11:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**13.89**	ft	1	08/14/2023 11:52	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**3.1**	NTU	1	08/14/2023 11:52	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-188**	mV	1	08/14/2023 11:52	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1120**	µS/cm	1	08/14/2023 11:52	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**16.1**	°C	1	08/14/2023 11:52	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.90**	mg/L	1	08/14/2023 11:52	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		**6.93**		1	08/14/2023 11:52	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**320**	mg/L	1	08/16/2023 12:47	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/16/2023 12:47	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**548**	mg/L	1	08/16/2023 10:28	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**138**	mg/L	10	08/29/2023 20:54	R335683
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.43**	mg/L	1	08/16/2023 11:07	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**23**	mg/L	1	08/29/2023 20:50	R335729
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**86.8**	mg/L	1	08/16/2023 13:06	210901
Magnesium	NELAP	0.0055	0.0500		**35.9**	mg/L	1	08/16/2023 13:06	210901
Potassium	NELAP	0.0400	0.100		**0.870**	mg/L	1	08/16/2023 13:06	210901
Sodium	NELAP	0.0180	0.0500		**52.6**	mg/L	1	08/16/2023 13:06	210901
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010		**< 0.0010**	mg/L	5	09/01/2023 4:34	210901
Arsenic	NELAP	0.0004	0.0010		**0.0015**	mg/L	5	09/01/2023 4:34	210901
Barium	NELAP	0.0007	0.0010		**0.0581**	mg/L	5	09/07/2023 17:29	210901
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/01/2023 4:34	210901
Boron	NELAP	0.0092	0.0200		**< 0.0200**	mg/L	5	09/01/2023 4:34	210901
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/01/2023 4:34	210901
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	09/01/2023 4:34	210901
Cobalt	NELAP	0.0001	0.0010	J	**0.0002**	mg/L	5	09/01/2023 4:34	210901
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/07/2023 17:29	210901
Lithium	*	0.0015	0.0030	J	**0.0026**	mg/L	5	09/01/2023 4:34	210901
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	09/01/2023 4:34	210901
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/01/2023 4:34	210901
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	09/01/2023 4:34	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.

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-025 **Client Sample ID:** G206

Matrix: GROUNDWATER **Collection Date:** 08/14/2023 11:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		**< 0.00020**	mg/L	1	08/16/2023 15:01	210923

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-026 **Client Sample ID:** G206D

Matrix: GROUNDWATER **Collection Date:** 08/14/2023 11:34

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**30.04**	ft	1	08/14/2023 11:34	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**6.9**	NTU	1	08/14/2023 11:34	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-48**	mV	1	08/14/2023 11:34	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1380**	µS/cm	1	08/14/2023 11:34	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.4**	°C	1	08/14/2023 11:34	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.66**	mg/L	1	08/14/2023 11:34	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		**6.94**		1	08/14/2023 11:34	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**414**	mg/L	1	08/16/2023 12:55	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/16/2023 12:55	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**685**	mg/L	2.5	08/16/2023 10:28	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**155**	mg/L	10	08/29/2023 21:03	R335683
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**1.00**	mg/L	1	08/16/2023 11:09	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**23**	mg/L	1	08/29/2023 20:58	R335729
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**84.9**	mg/L	1	08/16/2023 13:06	210901
Magnesium	NELAP	0.0055	0.0500		**31.0**	mg/L	1	08/16/2023 13:06	210901
Potassium	NELAP	0.0400	0.100		**1.30**	mg/L	1	08/16/2023 13:06	210901
Sodium	NELAP	0.0180	0.0500		**128**	mg/L	1	08/16/2023 13:06	210901
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010		**< 0.0010**	mg/L	5	09/01/2023 4:40	210901
Arsenic	NELAP	0.0004	0.0010		**0.0149**	mg/L	5	09/01/2023 4:40	210901
Barium	NELAP	0.0007	0.0010		**0.200**	mg/L	5	09/07/2023 17:35	210901
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/01/2023 4:40	210901
Boron	NELAP	0.0092	0.0200		**0.118**	mg/L	5	09/01/2023 4:40	210901
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/01/2023 4:40	210901
Chromium	NELAP	0.0007	0.0015	J	**0.0008**	mg/L	5	09/01/2023 4:40	210901
Cobalt	NELAP	0.0001	0.0010	J	**0.0002**	mg/L	5	09/01/2023 4:40	210901
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/07/2023 17:35	210901
Lithium	*	0.0015	0.0030	J	**0.0022**	mg/L	5	09/01/2023 4:40	210901
Molybdenum	*	0.0006	0.0015		**0.0143**	mg/L	5	09/01/2023 4:40	210901
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/01/2023 4:40	210901
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	09/01/2023 4:40	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.

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-026 **Client Sample ID:** G206D

Matrix: GROUNDWATER **Collection Date:** 08/14/2023 11:34

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		**< 0.00020**	mg/L	1	08/16/2023 15:06	210923

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-029 **Client Sample ID:** G209

Matrix: GROUNDWATER **Collection Date:** 08/14/2023 10:46

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**13.79**	ft	1	08/14/2023 10:46	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**3.1**	NTU	1	08/14/2023 10:46	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**84**	mV	1	08/14/2023 10:46	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1640**	µS/cm	1	08/14/2023 10:46	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.4**	°C	1	08/14/2023 10:46	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.78**	mg/L	1	08/14/2023 10:46	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		**6.60**		1	08/14/2023 10:46	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**401**	mg/L	1	08/16/2023 13:02	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/16/2023 13:02	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**878**	mg/L	1	08/16/2023 10:29	R335171
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**243**	mg/L	10	08/29/2023 21:32	R335683
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.46**	mg/L	1	08/16/2023 11:13	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**53**	mg/L	10	08/29/2023 21:33	R335729
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**149**	mg/L	1	08/16/2023 13:07	210901
Magnesium	NELAP	0.0055	0.0500		**51.2**	mg/L	1	08/16/2023 13:07	210901
Potassium	NELAP	0.0400	0.100		**0.551**	mg/L	1	08/16/2023 13:07	210901
Sodium	NELAP	0.0180	0.0500		**77.6**	mg/L	1	08/16/2023 13:07	210901
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0008	0.0010		**< 0.0010**	mg/L	5	09/01/2023 4:47	210901
Arsenic	NELAP	0.0004	0.0010		**0.0014**	mg/L	5	09/01/2023 4:47	210901
Barium	NELAP	0.0007	0.0010		**0.0685**	mg/L	5	09/07/2023 18:27	210901
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/01/2023 4:47	210901
Boron	NELAP	0.0092	0.0200		**< 0.0200**	mg/L	5	09/01/2023 4:47	210901
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/01/2023 4:47	210901
Chromium	NELAP	0.0007	0.0015	J	**0.0007**	mg/L	5	09/01/2023 4:47	210901
Cobalt	NELAP	0.0001	0.0010	J	**0.0004**	mg/L	5	09/01/2023 4:47	210901
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/07/2023 18:27	210901
Lithium	*	0.0015	0.0030		**0.0057**	mg/L	5	09/01/2023 4:47	210901
Molybdenum	*	0.0006	0.0015		**0.0026**	mg/L	5	09/01/2023 4:47	210901
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/01/2023 4:47	210901
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	09/01/2023 4:47	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.

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-029 **Client Sample ID:** G209

Matrix: GROUNDWATER **Collection Date:** 08/14/2023 10:46

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00009	0.00020		**< 0.00020**	mg/L	1	08/16/2023 15:30	210923

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-032 **Client Sample ID:** G212

Matrix: GROUNDWATER **Collection Date:** 08/10/2023 15:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**14.61**	ft	1	08/10/2023 15:28	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**3.9**	NTU	1	08/10/2023 15:28	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**68**	mV	1	08/10/2023 15:28	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**906**	µS/cm	1	08/10/2023 15:28	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.6**	°C	1	08/10/2023 15:28	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**2.95**	mg/L	1	08/10/2023 15:28	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		**7.22**		1	08/10/2023 15:28	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**234**	mg/L	1	08/17/2023 15:37	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/17/2023 15:37	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**412**	mg/L	1	08/15/2023 10:21	R335101
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**65**	mg/L	5	08/29/2023 22:25	R335683
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.35**	mg/L	1	08/14/2023 11:53	R334963
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**46**	mg/L	1	08/29/2023 22:07	R335729
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**53.6**	mg/L	1	08/15/2023 17:50	210812
Magnesium	NELAP	0.0055	0.0500		**26.3**	mg/L	1	08/15/2023 17:50	210812
Potassium	NELAP	0.0400	0.100		**0.278**	mg/L	1	08/15/2023 17:50	210812
Sodium	NELAP	0.0180	0.0500		**59.6**	mg/L	1	08/15/2023 17:50	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 21:18	210812
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/30/2023 21:18	210812
Barium	NELAP	0.0007	0.0010		**0.0529**	mg/L	5	08/30/2023 21:18	210812
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	08/30/2023 21:18	210812
Boron	NELAP	0.0092	0.0200		**< 0.0200**	mg/L	5	08/30/2023 21:18	210812
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	08/30/2023 21:18	210812
Chromium	NELAP	0.0007	0.0015	J	**0.0010**	mg/L	5	08/30/2023 21:18	210812
Cobalt	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/30/2023 21:18	210812
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/30/2023 21:18	210812
Lithium	*	0.0015	0.0030	J	**0.0015**	mg/L	5	08/30/2023 21:18	210812
Molybdenum	*	0.0006	0.0015	J	**0.0007**	mg/L	5	08/30/2023 21:18	210812
Selenium	NELAP	0.0006	0.0010	J	**0.0008**	mg/L	5	08/30/2023 21:18	210812
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/30/2023 21:18	210812

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-032 **Client Sample ID:** G212

Matrix: GROUNDWATER **Collection Date:** 08/10/2023 15:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.									
LCS recovered outside upper control limits for Ag. Sample results are below the reporting limit. Data is reportable per the TNI Standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/15/2023 16:48	210850

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-033 **Client Sample ID:** G213

Matrix: GROUNDWATER **Collection Date:** 08/10/2023 15:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**15.05**	ft	1	08/10/2023 15:08	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**7.4**	NTU	1	08/10/2023 15:08	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**102**	mV	1	08/10/2023 15:08	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**877**	µS/cm	1	08/10/2023 15:08	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.6**	°C	1	08/10/2023 15:08	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.78**	mg/L	1	08/10/2023 15:08	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		**7.16**		1	08/10/2023 15:08	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**228**	mg/L	1	08/16/2023 10:22	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/16/2023 10:22	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**402**	mg/L	1	08/15/2023 10:21	R335101
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**68**	mg/L	5	08/29/2023 22:33	R335683
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.34**	mg/L	1	08/16/2023 10:24	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**46**	mg/L	1	08/29/2023 22:29	R335729
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**65.6**	mg/L	1	08/16/2023 17:32	210813
Magnesium	NELAP	0.0055	0.0500		**29.3**	mg/L	1	08/16/2023 17:32	210813
Potassium	NELAP	0.0400	0.100		**0.468**	mg/L	1	08/16/2023 17:32	210813
Sodium	NELAP	0.0180	0.0500		**36.6**	mg/L	1	08/16/2023 17:32	210813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:21	210813
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:21	210813
Barium	NELAP	0.0007	0.0010		**0.0541**	mg/L	5	09/07/2023 21:38	210813
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:21	210813
Boron	NELAP	0.0092	0.0200		**< 0.0200**	mg/L	5	08/31/2023 23:21	210813
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:21	210813
Chromium	NELAP	0.0007	0.0015		**0.0016**	mg/L	5	08/31/2023 23:21	210813
Cobalt	NELAP	0.0001	0.0010	J	**0.0003**	mg/L	5	08/31/2023 23:21	210813
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:21	210813
Lithium	*	0.0015	0.0030		**0.0034**	mg/L	5	08/31/2023 23:21	210813
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	08/31/2023 23:21	210813
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:21	210813
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/31/2023 23:21	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.

PQL recovered outside upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-033 **Client Sample ID:** G213

Matrix: GROUNDWATER **Collection Date:** 08/10/2023 15:08

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 16:57	210851

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-035 **Client Sample ID:** G215

Matrix: GROUNDWATER **Collection Date:** 08/10/2023 14:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**17.22**	ft	1	08/10/2023 14:16	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**8.3**	NTU	1	08/10/2023 14:16	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**93**	mV	1	08/10/2023 14:16	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**2330**	µS/cm	1	08/10/2023 14:16	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.6**	°C	1	08/10/2023 14:16	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.71**	mg/L	1	08/10/2023 14:16	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		**6.95**		1	08/10/2023 14:16	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**333**	mg/L	1	08/16/2023 10:29	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/16/2023 10:29	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**1270**	mg/L	2.5	08/15/2023 10:22	R335101
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		**481**	mg/L	20	08/30/2023 15:35	R335764
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.33**	mg/L	1	08/16/2023 10:26	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**127**	mg/L	10	08/29/2023 22:50	R335729
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**171**	mg/L	1	08/16/2023 17:33	210813
Magnesium	NELAP	0.0055	0.0500		**86.5**	mg/L	1	08/16/2023 17:33	210813
Potassium	NELAP	0.0400	0.100		**4.50**	mg/L	1	08/16/2023 17:33	210813
Sodium	NELAP	0.0180	0.0500		**91.8**	mg/L	1	08/16/2023 17:33	210813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:28	210813
Arsenic	NELAP	0.0004	0.0010		**0.0024**	mg/L	5	08/31/2023 23:28	210813
Barium	NELAP	0.0007	0.0010		**0.0402**	mg/L	5	09/07/2023 21:51	210813
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:28	210813
Boron	NELAP	0.0092	0.0200		**0.712**	mg/L	5	08/31/2023 23:28	210813
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:28	210813
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	08/31/2023 23:28	210813
Cobalt	NELAP	0.0001	0.0010	J	**0.0008**	mg/L	5	08/31/2023 23:28	210813
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:28	210813
Lithium	*	0.0015	0.0030		**0.0096**	mg/L	5	08/31/2023 23:28	210813
Molybdenum	*	0.0006	0.0015		**0.0041**	mg/L	5	08/31/2023 23:28	210813
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:28	210813
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/31/2023 23:28	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.

PQL recovered outside upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-035 **Client Sample ID:** G215

Matrix: GROUNDWATER **Collection Date:** 08/10/2023 14:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	J	**0.00008**	mg/L	1	08/15/2023 17:22	210851

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-037 **Client Sample ID:** G217

Matrix: GROUNDWATER **Collection Date:** 08/10/2023 13:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**18.29**	ft	1	08/10/2023 13:25	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**7.2**	NTU	1	08/10/2023 13:25	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**77**	mV	1	08/10/2023 13:25	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1970**	µS/cm	1	08/10/2023 13:25	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.6**	°C	1	08/10/2023 13:25	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.03**	mg/L	1	08/10/2023 13:25	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		**6.92**		1	08/10/2023 13:25	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**303**	mg/L	1	08/16/2023 10:36	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/16/2023 10:36	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**1100**	mg/L	1	08/15/2023 10:45	R335101
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		**394**	mg/L	20	08/29/2023 23:00	R335683
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.38**	mg/L	1	08/16/2023 10:30	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	10	80		**109**	mg/L	20	08/29/2023 23:00	R335729
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**175**	mg/L	1	08/16/2023 17:39	210813
Magnesium	NELAP	0.0055	0.0500		**67.7**	mg/L	1	08/16/2023 17:39	210813
Potassium	NELAP	0.0400	0.100		**0.659**	mg/L	1	08/16/2023 17:39	210813
Sodium	NELAP	0.0180	0.0500		**74.0**	mg/L	1	08/16/2023 17:39	210813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:40	210813
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:40	210813
Barium	NELAP	0.0007	0.0010		**0.107**	mg/L	5	09/07/2023 22:04	210813
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:40	210813
Boron	NELAP	0.0092	0.020	J	**0.018**	mg/L	5	08/31/2023 23:40	210813
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:40	210813
Chromium	NELAP	0.0007	0.0015	J	**0.0009**	mg/L	5	08/31/2023 23:40	210813
Cobalt	NELAP	0.0001	0.0010	J	**0.0004**	mg/L	5	08/31/2023 23:40	210813
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:40	210813
Lithium	*	0.0015	0.0030		**0.0036**	mg/L	5	08/31/2023 23:40	210813
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	08/31/2023 23:40	210813
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:40	210813
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/31/2023 23:40	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.

PQL recovered outside upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-037 **Client Sample ID:** G217

Matrix: GROUNDWATER **Collection Date:** 08/10/2023 13:25

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 17:31	210851

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-038 **Client Sample ID:** G218

Matrix: GROUNDWATER **Collection Date:** 08/10/2023 12:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**16.98**	ft	1	08/10/2023 12:53	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**22**	NTU	1	08/10/2023 12:53	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**70**	mV	1	08/10/2023 12:53	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**2000**	µS/cm	1	08/10/2023 12:53	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.2**	°C	1	08/10/2023 12:53	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.76**	mg/L	1	08/10/2023 12:53	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		**6.94**		1	08/10/2023 12:53	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**305**	mg/L	1	08/16/2023 10:43	R335113
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/16/2023 10:43	R335113
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**1140**	mg/L	1	08/15/2023 10:45	R335101
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**424**	mg/L	10	08/29/2023 23:27	R335683
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.32**	mg/L	1	08/16/2023 10:32	R335102
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**116**	mg/L	10	08/29/2023 23:27	R335729
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**179**	mg/L	1	08/16/2023 17:39	210813
Magnesium	NELAP	0.0055	0.0500		**70.6**	mg/L	1	08/16/2023 17:39	210813
Potassium	NELAP	0.0400	0.100		**0.772**	mg/L	1	08/16/2023 17:39	210813
Sodium	NELAP	0.0180	0.0500		**75.3**	mg/L	1	08/16/2023 17:39	210813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:47	210813
Arsenic	NELAP	0.0004	0.0010		**0.0020**	mg/L	5	08/31/2023 23:47	210813
Barium	NELAP	0.0007	0.0010		**0.0747**	mg/L	5	09/07/2023 22:10	210813
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:47	210813
Boron	NELAP	0.0092	0.020	J	**0.013**	mg/L	5	08/31/2023 23:47	210813
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:47	210813
Chromium	NELAP	0.0007	0.0015	J	**0.0011**	mg/L	5	08/31/2023 23:47	210813
Cobalt	NELAP	0.0001	0.0010	J	**0.0007**	mg/L	5	08/31/2023 23:47	210813
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:47	210813
Lithium	*	0.0015	0.0030		**0.0046**	mg/L	5	08/31/2023 23:47	210813
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	08/31/2023 23:47	210813
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 23:47	210813
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/31/2023 23:47	210813

Results have less certainty - Client Requested Quantitation Limit for Boron is below the method limit of quantitation.

PQL recovered outside upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-038 **Client Sample ID:** G218

Matrix: GROUNDWATER **Collection Date:** 08/10/2023 12:53

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 17:35	210851

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-094 **Client Sample ID:** NE Riser

Matrix: LEACHATE **Collection Date:** 08/15/2023 13:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**NA**	ft	1	08/15/2023 13:12	R335486
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**4.7**	NTU	1	08/15/2023 13:12	R335486
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**178**	mV	1	08/15/2023 13:12	R335486
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**28400**	µS/cm	1	08/15/2023 13:12	R335486
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**19.2**	°C	1	08/15/2023 13:12	R335486
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.56**	mg/L	1	08/15/2023 13:12	R335486
SW-846 9040B FIELD									
pH	*	0	1.00		**7.00**		1	08/15/2023 13:12	R335486
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**100**	mg/L	1	08/17/2023 15:20	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/17/2023 15:20	R335189
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	80	100		**11600**	mg/L	5	08/17/2023 10:50	R335221
SW-846 9036 (TOTAL)									
Sulfate	NELAP	1230	2000		**8460**	mg/L	200	08/30/2023 22:10	R335764
SW-846 9251 (TOTAL)									
Chloride	NELAP	50	400		**1220**	mg/L	100	08/30/2023 22:05	R335780
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**478**	mg/L	1	08/17/2023 10:28	210926
Magnesium	NELAP	0.0055	0.0500		**896**	mg/L	1	08/17/2023 10:28	210926
Potassium	NELAP	0.800	2.00		**110**	mg/L	20	08/17/2023 14:08	210926
Sodium	NELAP	0.0180	0.0500		**381**	mg/L	1	08/17/2023 10:28	210926

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

Lab ID: 23071810-107 **Client Sample ID:** Field Blank

Matrix: AQUEOUS **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 CaCO3)	NELAP	0	0		**2**	mg/L	1	08/17/2023 13:33	R335189
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	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

Sample Summary

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23071810-024	G200	Groundwater	7	08/15/2023 0:00
23071810-025	G206	Groundwater	7	08/14/2023 11:52
23071810-026	G206D	Groundwater	6	08/14/2023 11:34
23071810-029	G209	Groundwater	7	08/14/2023 10:46
23071810-032	G212	Groundwater	7	08/10/2023 15:28
23071810-033	G213	Groundwater	7	08/10/2023 15:08
23071810-035	G215	Groundwater	7	08/10/2023 14:16
23071810-037	G217	Groundwater	7	08/10/2023 13:25
23071810-038	G218	Groundwater	7	08/10/2023 12:53
23071810-094	NE Riser	Leachate	6	08/15/2023 13:12
23071810-096	R201	Groundwater	7	08/15/2023 0:00
23071810-100	SG-04	Groundwater	1	08/08/2023 0:00
23071810-107	Field Blank	Aqueous	8	08/15/2023 10:35
23071810-109	G200 Duplicate	Groundwater	7	08/15/2023 0:00
23071810-112	R201 Duplicate	Groundwater	7	08/15/2023 0:00

Dates Report

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**
23071810-025A	G206	08/14/2023 11:52	08/14/2023 18:10		
	Ferrous Iron by CHEMets Kit				08/14/2023 11:52
	Field Elevation Measurements				08/14/2023 11:52
	Standard Methods 2130 B Field				08/14/2023 11:52
	Standard Methods 18th Ed. 2580 B Field				08/14/2023 11:52
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 12:47
	Standard Methods 2320 B 1997, 2011				08/16/2023 12:47
	Standard Methods 2510 B Field				08/14/2023 11:52
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 10:28
	Standard Methods 2550 B Field				08/14/2023 11:52
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/15/2023 16:27
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 12:47
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-O G Field				08/14/2023 11:52
	Standard Methods 4500-P E 1999				08/15/2023 12:47
	Standard Methods 4500-P E 1999, 2011				08/15/2023 12:50
	SW-846 9036 (Total)				08/29/2023 20:54
	SW-846 9040B Field				08/14/2023 11:52
	SW-846 9214 (Total)				08/16/2023 11:07
	SW-846 9251 (Total)				08/29/2023 20:50
23071810-025B	G206	08/14/2023 11:52	08/14/2023 18:10		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:11
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:11
	Standard Methods 2550 B Field				08/14/2023 11:52
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/15/2023 16:30
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/15/2023 13:33
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/15/2023 12:51
	Standard Methods 4500-P E (Dissolved) 1999				08/15/2023 12:47
	SW-846 9036 (Dissolved)				08/21/2023 21:17
	SW-846 9214 (Dissolved)				08/16/2023 9:59
	SW-846 9251 (Dissolved)				08/21/2023 21:12
23071810-025C	G206	08/14/2023 11:52	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 11:12	08/16/2023 13:06
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/01/2023 4:34
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/07/2023 17:29
	SW-846 7470A (Total)			08/15/2023 15:17	08/16/2023 15:01

Dates Report

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**
23071810-025D	G206	08/14/2023 11:52	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 11:21	08/16/2023 17:01
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/01/2023 16:52
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 2:52
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 22:31
	SW-846 7470A (Dissolved)			08/15/2023 15:17	08/16/2023 15:03
23071810-025E	G206	08/14/2023 11:52	08/14/2023 18:10		
	SW-846 9012A (Total)			08/15/2023 15:13	08/16/2023 10:54
23071810-025F	G206	08/14/2023 11:52	08/14/2023 18:10		
	SW-846 9060A				08/31/2023 17:57
	SW-846 9066 (Total)				08/21/2023 12:47
23071810-025G	G206	08/14/2023 11:52	08/14/2023 18:10		
	SW-846 9060A				08/28/2023 21:32
23071810-026A	G206D	08/14/2023 11:34	08/14/2023 18:10		
	Ferrous Iron by CHEMets Kit				08/14/2023 11:34
	Field Elevation Measurements				08/14/2023 11:34
	Standard Methods 2130 B Field				08/14/2023 11:34
	Standard Methods 18th Ed. 2580 B Field				08/14/2023 11:34
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 12:55
	Standard Methods 2320 B 1997, 2011				08/16/2023 12:55
	Standard Methods 2510 B Field				08/14/2023 11:34
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 10:28
	Standard Methods 2550 B Field				08/14/2023 11:34
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/15/2023 16:26
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 12:49
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-O G Field				08/14/2023 11:34
	Standard Methods 4500-P E 1999				08/15/2023 12:47
	Standard Methods 4500-P E 1999, 2011				08/15/2023 12:52
	SW-846 9036 (Total)				08/29/2023 21:03
	SW-846 9040B Field				08/14/2023 11:34
	SW-846 9214 (Total)				08/16/2023 11:09
	SW-846 9251 (Total)				08/29/2023 20:58
23071810-026B	G206D	08/14/2023 11:34	08/14/2023 18:10		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 9:20
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 9:20
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/15/2023 16:34

Dates Report

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				08/15/2023 13:42
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/15/2023 12:53
	Standard Methods 4500-P E (Dissolved) 1999				08/15/2023 12:47
	SW-846 9036 (Dissolved)				08/21/2023 21:26
	SW-846 9251 (Dissolved)				08/21/2023 21:20
23071810-026C	G206D	08/14/2023 11:34	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 11:12	08/16/2023 13:06
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 11:12	08/18/2023 15:50
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/01/2023 4:40
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/07/2023 17:35
	SW-846 7470A (Total)			08/15/2023 15:17	08/16/2023 15:06
23071810-026D	G206D	08/14/2023 11:34	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 11:21	08/16/2023 17:02
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 2:57
23071810-026E	G206D	08/14/2023 11:34	08/14/2023 18:10		
	SW-846 9060A				08/31/2023 18:02
23071810-026F	G206D	08/14/2023 11:34	08/14/2023 18:10		
	SW-846 9060A				08/28/2023 22:07
23071810-029A	G209	08/14/2023 10:46	08/14/2023 18:10		
	Ferrous Iron by CHEMets Kit				08/14/2023 10:46
	Field Elevation Measurements				08/14/2023 10:46
	Standard Methods 2130 B Field				08/14/2023 10:46
	Standard Methods 18th Ed. 2580 B Field				08/14/2023 10:46
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 13:02
	Standard Methods 2320 B 1997, 2011				08/16/2023 13:02
	Standard Methods 2510 B Field				08/14/2023 10:46
	Standard Methods 2540 C (Total) 1997, 2011				08/16/2023 10:29
	Standard Methods 2550 B Field				08/14/2023 10:46
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/15/2023 16:27
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 12:51
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-O G Field				08/14/2023 10:46
	Standard Methods 4500-P E 1999				08/15/2023 12:47
	Standard Methods 4500-P E 1999, 2011				08/15/2023 12:54
	SW-846 9036 (Total)				08/29/2023 21:32
	SW-846 9040B Field				08/14/2023 10:46

Teklab, Inc. Environmental Laboratory

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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 9214 (Total)				08/16/2023 11:13
	SW-846 9251 (Total)				08/29/2023 21:33
23071810-029B	G209	08/14/2023 10:46	08/14/2023 18:10		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:18
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:18
	Standard Methods 2550 B Field				08/14/2023 10:46
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/15/2023 16:34
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/15/2023 13:44
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/15/2023 15:14
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/15/2023 12:55
	Standard Methods 4500-P E (Dissolved) 1999				08/15/2023 12:47
	SW-846 9036 (Dissolved)				08/21/2023 21:41
	SW-846 9214 (Dissolved)				08/16/2023 9:49
	SW-846 9251 (Dissolved)				08/21/2023 21:42
23071810-029C	G209	08/14/2023 10:46	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 11:12	08/16/2023 13:07
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/01/2023 4:47
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 11:12	09/07/2023 18:27
	SW-846 7470A (Total)			08/15/2023 15:17	08/16/2023 15:30
23071810-029D	G209	08/14/2023 10:46	08/14/2023 18:10		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 11:21	08/16/2023 17:09
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/01/2023 16:59
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 3:03
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 11:21	09/14/2023 22:36
	SW-846 7470A (Dissolved)			08/15/2023 15:17	08/16/2023 15:36
23071810-029E	G209	08/14/2023 10:46	08/14/2023 18:10		
	SW-846 9012A (Total)			08/15/2023 15:13	08/16/2023 11:06
23071810-029F	G209	08/14/2023 10:46	08/14/2023 18:10		
	SW-846 9060A				08/31/2023 18:08
	SW-846 9066 (Total)				08/21/2023 13:13
23071810-029G	G209	08/14/2023 10:46	08/14/2023 18:10		
	SW-846 9060A				08/28/2023 22:13
23071810-032A	G212	08/10/2023 15:28	08/10/2023 17:30		
	Ferrous Iron by CHEMets Kit				08/10/2023 15:28
	Field Elevation Measurements				08/10/2023 15:28
	Standard Methods 2130 B Field				08/10/2023 15:28
	Standard Methods 18th Ed. 2580 B Field				08/10/2023 15:28

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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 2320 B (Total) 1997, 2011				08/17/2023 15:37
	Standard Methods 2320 B 1997, 2011				08/17/2023 15:37
	Standard Methods 2510 B Field				08/10/2023 15:28
	Standard Methods 2540 C (Total) 1997, 2011				08/15/2023 10:21
	Standard Methods 2550 B Field				08/10/2023 15:28
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:35
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 22:59
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 22:59
	Standard Methods 4500-O G Field				08/10/2023 15:28
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 13:36
	SW-846 9036 (Total)				08/29/2023 22:25
	SW-846 9040B Field				08/10/2023 15:28
	SW-846 9214 (Total)				08/14/2023 11:53
	SW-846 9251 (Total)				08/29/2023 22:07
23071810-032B	G212	08/10/2023 15:28	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:26
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:26
	Standard Methods 2550 B Field				08/10/2023 15:28
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:36
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 15:14
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 15:14
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 13:37
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/23/2023 14:28
	SW-846 9214 (Dissolved)				08/16/2023 10:01
	SW-846 9251 (Dissolved)				08/21/2023 22:14
23071810-032C	G212	08/10/2023 15:28	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:42	08/15/2023 17:50
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:42	08/30/2023 21:18
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/11/2023 8:20	09/15/2023 17:15
	SW-846 7470A (Total)			08/14/2023 16:30	08/15/2023 16:48
23071810-032D	G212	08/10/2023 15:28	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 16:40
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	08/30/2023 18:26
	SW-846 7470A (Dissolved)			08/14/2023 16:30	08/15/2023 16:50
23071810-032E	G212	08/10/2023 15:28	08/10/2023 17:30		

Dates Report

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 9012A (Total)			08/15/2023 20:13	08/16/2023 11:24
23071810-032F	G212	08/10/2023 15:28	08/10/2023 17:30		
	SW-846 9060A				08/31/2023 18:15
	SW-846 9066 (Total)				08/16/2023 8:59
23071810-032G	G212	08/10/2023 15:28	08/10/2023 17:30		
	SW-846 9060A				08/28/2023 22:19
23071810-033A	G213	08/10/2023 15:08	08/10/2023 17:30		
	Ferrous Iron by CHEMets Kit				08/10/2023 15:08
	Field Elevation Measurements				08/10/2023 15:08
	Standard Methods 2130 B Field				08/10/2023 15:08
	Standard Methods 18th Ed. 2580 B Field				08/10/2023 15:08
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 10:22
	Standard Methods 2320 B 1997, 2011				08/16/2023 10:22
	Standard Methods 2510 B Field				08/10/2023 15:08
	Standard Methods 2540 C (Total) 1997, 2011				08/15/2023 10:21
	Standard Methods 2550 B Field				08/10/2023 15:08
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:36
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 23:01
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 23:01
	Standard Methods 4500-O G Field				08/10/2023 15:08
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 13:38
	SW-846 9036 (Total)				08/29/2023 22:33
	SW-846 9040B Field				08/10/2023 15:08
	SW-846 9214 (Total)				08/16/2023 10:24
	SW-846 9251 (Total)				08/29/2023 22:29
23071810-033B	G213	08/10/2023 15:08	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:33
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:33
	Standard Methods 2550 B Field				08/10/2023 15:08
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:37
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 15:16
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 15:16
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 13:38
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/23/2023 14:36
	SW-846 9214 (Dissolved)				08/16/2023 10:03

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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 9251 (Dissolved)				08/21/2023 22:22
23071810-033C	G213	08/10/2023 15:08	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:32
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	08/31/2023 23:21
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/01/2023 15:48
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 21:38
	SW-846 7470A (Total)			08/14/2023 16:33	08/15/2023 16:57
23071810-033D	G213	08/10/2023 15:08	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 16:42
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	08/30/2023 19:17
	SW-846 7470A (Dissolved)			08/14/2023 16:33	08/15/2023 16:59
23071810-033E	G213	08/10/2023 15:08	08/10/2023 17:30		
	SW-846 9012A (Total)			08/15/2023 20:13	08/16/2023 11:28
23071810-033F	G213	08/10/2023 15:08	08/10/2023 17:30		
	SW-846 9060A				08/31/2023 18:21
	SW-846 9066 (Total)				08/16/2023 9:03
23071810-033G	G213	08/10/2023 15:08	08/10/2023 17:30		
	SW-846 9060A				08/28/2023 22:56
23071810-035A	G215	08/10/2023 14:16	08/10/2023 17:30		
	Ferrous Iron by CHEMets Kit				08/10/2023 14:16
	Field Elevation Measurements				08/10/2023 14:16
	Standard Methods 2130 B Field				08/10/2023 14:16
	Standard Methods 18th Ed. 2580 B Field				08/10/2023 14:16
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 10:29
	Standard Methods 2320 B 1997, 2011				08/16/2023 10:29
	Standard Methods 2510 B Field				08/10/2023 14:16
	Standard Methods 2540 C (Total) 1997, 2011				08/15/2023 10:22
	Standard Methods 2550 B Field				08/10/2023 14:16
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:37
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:02
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:02
	Standard Methods 4500-O G Field				08/10/2023 14:16
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 13:39
	SW-846 9036 (Total)				08/30/2023 15:35
	SW-846 9040B Field				08/10/2023 14:16
	SW-846 9214 (Total)				08/16/2023 10:26

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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 9251 (Total)				08/29/2023 22:50
23071810-035B	G215	08/10/2023 14:16	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:39
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:39
	Standard Methods 2550 B Field				08/10/2023 14:16
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:37
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 12:55
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 12:55
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 13:40
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/21/2023 22:55
	SW-846 9214 (Dissolved)				08/16/2023 10:04
	SW-846 9251 (Dissolved)				08/21/2023 22:56
23071810-035C	G215	08/10/2023 14:16	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:33
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	08/31/2023 23:28
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 21:51
	SW-846 7470A (Total)			08/14/2023 16:33	08/15/2023 17:22
23071810-035D	G215	08/10/2023 14:16	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 16:57
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	08/30/2023 19:23
	SW-846 7470A (Dissolved)			08/14/2023 16:33	08/15/2023 17:24
23071810-035E	G215	08/10/2023 14:16	08/10/2023 17:30		
	SW-846 9012A (Total)			08/15/2023 20:13	08/16/2023 11:56
23071810-035F	G215	08/10/2023 14:16	08/10/2023 17:30		
	SW-846 9060A				08/31/2023 18:26
	SW-846 9066 (Total)				08/16/2023 9:34
23071810-035G	G215	08/10/2023 14:16	08/10/2023 17:30		
	SW-846 9060A				08/28/2023 23:02
23071810-037A	G217	08/10/2023 13:25	08/10/2023 17:30		
	Ferrous Iron by CHEMets Kit				08/10/2023 13:25
	Field Elevation Measurements				08/10/2023 13:25
	Standard Methods 2130 B Field				08/10/2023 13:25
	Standard Methods 18th Ed. 2580 B Field				08/10/2023 13:25
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 10:36
	Standard Methods 2320 B 1997, 2011				08/16/2023 10:36
	Standard Methods 2510 B Field				08/10/2023 13:25

Dates Report

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 2540 C (Total) 1997, 2011				08/15/2023 10:45
	Standard Methods 2550 B Field				08/10/2023 13:25
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:38
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:04
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:04
	Standard Methods 4500-O G Field				08/10/2023 13:25
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 13:40
	SW-846 9036 (Total)				08/29/2023 23:00
	SW-846 9040B Field				08/10/2023 13:25
	SW-846 9214 (Total)				08/16/2023 10:30
	SW-846 9251 (Total)				08/29/2023 23:00
23071810-037B	G217	08/10/2023 13:25	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 11:49
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/15/2023 11:49
	Standard Methods 2550 B Field				08/10/2023 13:25
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:38
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 12:58
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 12:58
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 13:41
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/23/2023 15:10
	SW-846 9214 (Dissolved)				08/15/2023 13:42
	SW-846 9251 (Dissolved)				08/21/2023 23:20
23071810-037C	G217	08/10/2023 13:25	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:39
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	08/31/2023 23:40
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 22:04
	SW-846 7470A (Total)			08/14/2023 16:33	08/15/2023 17:31
23071810-037D	G217	08/10/2023 13:25	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 17:04
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	08/30/2023 19:29
	SW-846 7470A (Dissolved)			08/14/2023 16:33	08/15/2023 17:33
23071810-037E	G217	08/10/2023 13:25	08/10/2023 17:30		
	SW-846 9012A (Total)			08/15/2023 20:13	08/16/2023 12:01
23071810-037F	G217	08/10/2023 13:25	08/10/2023 17:30		
	SW-846 9060A				08/31/2023 18:33

Dates Report

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 9066 (Total)				08/16/2023 9:47
23071810-037G	G217	08/10/2023 13:25	08/10/2023 17:30		
	SW-846 9060A				08/28/2023 23:07
23071810-038A	G218	08/10/2023 12:53	08/10/2023 17:30		
	Ferrous Iron by CHEMets Kit				08/10/2023 12:53
	Field Elevation Measurements				08/10/2023 12:53
	Standard Methods 2130 B Field				08/10/2023 12:53
	Standard Methods 18th Ed. 2580 B Field				08/10/2023 12:53
	Standard Methods 2320 B (Total) 1997, 2011				08/16/2023 10:43
	Standard Methods 2320 B 1997, 2011				08/16/2023 10:43
	Standard Methods 2510 B Field				08/10/2023 12:53
	Standard Methods 2540 C (Total) 1997, 2011				08/15/2023 10:45
	Standard Methods 2550 B Field				08/10/2023 12:53
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/11/2023 17:38
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:06
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/11/2023 14:06
	Standard Methods 4500-O G Field				08/10/2023 12:53
	Standard Methods 4500-P E 1999				08/11/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/11/2023 13:42
	SW-846 9036 (Total)				08/29/2023 23:27
	SW-846 9040B Field				08/10/2023 12:53
	SW-846 9214 (Total)				08/16/2023 10:32
	SW-846 9251 (Total)				08/29/2023 23:27
23071810-038B	G218	08/10/2023 12:53	08/10/2023 17:30		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:47
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/16/2023 9:47
	Standard Methods 2550 B Field				08/10/2023 12:53
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/11/2023 17:38
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:00
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/11/2023 13:00
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/11/2023 13:42
	Standard Methods 4500-P E (Dissolved) 1999				08/11/2023 0:00
	SW-846 9036 (Dissolved)				08/21/2023 23:50
	SW-846 9214 (Dissolved)				08/16/2023 10:06
	SW-846 9251 (Dissolved)				08/21/2023 23:50
23071810-038C	G218	08/10/2023 12:53	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/14/2023 11:50	08/16/2023 17:39

Dates Report

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, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	08/31/2023 23:47
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/14/2023 11:50	09/07/2023 22:10
	SW-846 7470A (Total)			08/14/2023 16:33	08/15/2023 17:35
23071810-038D	G218	08/10/2023 12:53	08/10/2023 17:30		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/14/2023 12:00	08/15/2023 17:05
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/14/2023 12:00	08/30/2023 19:36
	SW-846 7470A (Dissolved)			08/14/2023 16:33	08/15/2023 17:38
23071810-038E	G218	08/10/2023 12:53	08/10/2023 17:30		
	SW-846 9012A (Total)			08/15/2023 20:13	08/16/2023 12:05
23071810-038F	G218	08/10/2023 12:53	08/10/2023 17:30		
	SW-846 9060A				09/05/2023 17:29
	SW-846 9066 (Total)				08/16/2023 9:51
23071810-038G	G218	08/10/2023 12:53	08/10/2023 17:30		
	SW-846 9060A				08/28/2023 23:43
23071810-094A	NE Riser	08/15/2023 13:12	08/15/2023 15:18		
	Ferrous Iron by CHEMets Kit				08/15/2023 13:12
	Field Elevation Measurements				08/15/2023 13:12
	Standard Methods 2130 B Field				08/15/2023 13:12
	Standard Methods 18th Ed. 2580 B Field				08/15/2023 13:12
	Standard Methods 2320 B (Total) 1997, 2011				08/17/2023 15:20
	Standard Methods 2320 B 1997, 2011				08/17/2023 15:20
	Standard Methods 2510 B Field				08/15/2023 13:12
	Standard Methods 2540 C (Total) 1997, 2011				08/17/2023 10:50
	Standard Methods 2550 B Field				08/15/2023 13:12
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/15/2023 21:10
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/16/2023 14:18
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/16/2023 14:18
	Standard Methods 4500-O G Field				08/15/2023 13:12
	Standard Methods 4500-P E 1999				08/16/2023 0:00
	Standard Methods 4500-P E 1999, 2011				08/16/2023 13:47
	SW-846 9036 (Total)				08/30/2023 22:10
	SW-846 9040B Field				08/15/2023 13:12
	SW-846 9214 (Total)				08/16/2023 15:12
	SW-846 9251 (Total)				08/30/2023 22:05
23071810-094B	NE Riser	08/15/2023 13:12	08/15/2023 15:18		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 11:01
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/17/2023 11:01

Dates Report

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 (Dissolved) 2000, 2011				08/15/2023 21:10
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/16/2023 13:08
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/16/2023 13:08
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/16/2023 13:48
	Standard Methods 4500-P E (Dissolved) 1999				08/16/2023 0:00
	SW-846 9036 (Dissolved)				08/30/2023 14:03
	SW-846 9251 (Dissolved)				08/30/2023 13:52
23071810-094C	NE Riser	08/15/2023 13:12	08/15/2023 15:18		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 18:29	08/17/2023 10:28
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 18:29	08/17/2023 14:08
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/15/2023 18:29	08/17/2023 17:28
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 18:29	08/30/2023 12:25
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 18:29	09/11/2023 12:45
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 18:29	09/13/2023 21:27
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/15/2023 18:29	09/13/2023 21:32
	SW-846 7470A (Total)			08/24/2023 14:07	08/26/2023 12:37
23071810-094D	NE Riser	08/15/2023 13:12	08/15/2023 15:18		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 19:44	08/16/2023 10:06
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 19:44	08/16/2023 16:09
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/15/2023 19:44	08/17/2023 16:51
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 19:44	09/13/2023 13:46
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/15/2023 19:44	09/13/2023 19:00
23071810-094E	NE Riser	08/15/2023 13:12	08/15/2023 15:18		
	SW-846 9060A				09/01/2023 2:22
23071810-094F	NE Riser	08/15/2023 13:12	08/15/2023 15:18		
	SW-846 9060A				08/31/2023 15:46
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
	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

Dates Report

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)				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
	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

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

STANDARD METHODS 2510 B FIELD

Batch R335486 **SampType:** LCS Units **µS/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 **µS/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 **µS/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 **µS/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 **µS/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 **µS/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 **µS/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 **µS/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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date 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

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: 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

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

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	08/14/2023

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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** RPD Limit **10**
SampID: 23071810-094ADUP

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** RPD Limit **10**
SampID: 23071810-103ADUP

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: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.03**	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

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

STANDARD METHODS 4500-NH3 G (DISSOLVED) 1997, 2011

Batch R334884 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23071810-002GMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-010EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**
SampID: 23071810-101FMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**
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	08/14/2023

Batch R334951 **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		**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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-095GMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

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	08/16/2023

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**
SampID: 23071810-009BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-009BMSD

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	100.6	0.4920	2.21	08/10/2023

Batch R334890 **SampType:** MS Units **mg/L**
SampID: 23071810-011BMS

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	100.4	85	115	08/10/2023

Batch R334890 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23071810-011BMSD

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	99.8	0.5020	0.60	08/10/2023

Batch R334890 **SampType:** MS Units **mg/L**
SampID: 23071810-013BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-013BMSD

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	0.4700	5.18	08/10/2023

Batch R334890 **SampType:** MS Units **mg/L**
SampID: 23071810-018BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-018BMSD

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	100.4	0.4910	2.22	08/10/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**
SampID: 23071810-060BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-060BMSD

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	99.8	0.4940	1.01	08/10/2023

Batch R334911 **SampType:** MS Units **mg/L**
SampID: 23071810-005BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-005BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**
SampID: 23071810-061BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-061BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**
SampID: 23071810-081BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-081BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.47**	0.5000	0	94.6	0.4790	1.26	08/11/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**
SampID: 23071810-095BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-095BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**
SampID: 23071810-051BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-051BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**
SampID: 23071810-052BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-052BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**
SampID: 23071810-110BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-110BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.49**	0.5000	0	98.0	0.4890	0.20	08/15/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

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	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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**
SampID: 23071810-009BMSD

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	0.2490	0.40	08/10/2023

Batch R334857 **SampType:** MS Units **mg/L**
SampID: 23071810-016BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-016BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R334934 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23071810-023BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

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	08/11/2023

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						08/10/2023
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**

SampID: 23071810-060AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.260**	0.2500	0.01100	99.6	85	115	08/10/2023

Batch R334857 **SampType:** MSD Units **mg/L** RPD Limit **10**

SampID: 23071810-070AMSD

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	0.2600	1.16	08/10/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 23071810-082AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date 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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

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**
SampID: 23071810-080BMSD

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	0.01400	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**
SampID: 23071810-081BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**
SampID: 23071810-067BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

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	08/10/2023

Batch R334938 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23071810-111BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R335029 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23071810-051BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-054BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**
SampID: 23071810-103BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**
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	08/11/2023

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

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	08/15/2023

Batch R335135 **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	08/16/2023

Batch R335135 **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		**0.108**	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

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

SW-846 9012A (TOTAL)

Batch 210749 **SampType:** LCS Units **mg/L**
SampID: LCS 230811 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date 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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date 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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.026**	0.0250	0	104.4	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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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: 23071810-007BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-007BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20	E	**108**	40.00	69.98	94.5	106.3	1.41	08/23/2023

Batch R335452 **SampType:** MS Units **mg/L**
SampID: 23071810-015BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**323**	200.0	126.0	98.4	85	115	08/23/2023

Batch R335452 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23071810-015BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**315**	200.0	126.0	94.7	322.9	2.33	08/23/2023

Batch R335452 **SampType:** MS Units **mg/L**
SampID: 23071810-022BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-022BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20	E	**110**	40.00	74.41	88.2	109.2	0.48	08/23/2023

Batch R335452 **SampType:** MS Units **mg/L**
SampID: 23071810-037BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		200		**783**	400.0	400.3	95.6	85	115	08/23/2023

Batch R335452 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23071810-037BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		200		**752**	400.0	400.3	87.9	782.9	4.03	08/23/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**
SampID: 23071810-094BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		2000	E	**12000**	4000	8358	90.3	85	115	08/30/2023

Batch R335764 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23071810-094BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**
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	08/17/2023

Batch R335217 **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	99.6	90	110	08/17/2023

Batch R335341 **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	08/21/2023

Batch R335341 **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	98.0	90	110	08/21/2023

Batch R335452 **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	08/23/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date 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**
SampID: 23071810-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date 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**
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	08/30/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**19**	20.00	0	96.6	90	110	08/30/2023

Batch R335764 **SampType:** MS Units **mg/L**
SampID: 23071810-031AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

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	09/06/2023

Batch R336010 **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	97.0	90	110	09/06/2023

Batch R336163 **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	09/08/2023

Batch R336163 **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		**18**	20.00	0	91.5	90	110	09/08/2023

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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

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

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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**
SampID: 23071810-037GMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

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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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23071810

Client Project: COF-23Q3 **Report Date:** 21-Nov-23

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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

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Environmental Laboratory

Quality Control Results

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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date 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

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Quality Control Results

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
SampID: 23071810-030FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phenols		5	S	**86**	50.00	0	172.8	85	115	08/21/2023

Batch R335286 **SampType:** MSD Units µg/L RPD Limit 15
SampID: 23071810-030FMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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: ICV/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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**
SampID: 23071810-014BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

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Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**0.97**	1.000	0	97.0	90	110	08/14/2023

Batch R334963 **SampType:** MS Units **mg/L**
SampID: 23071810-071AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
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	08/16/2023

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Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-043AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-075AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**1.99**	2.000	0.1940	89.9	75	125	08/16/2023

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Quality Control Results

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**
SampID: 23071810-095AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**
SampID: 23071810-110AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**
SampID: 23071810-007BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-007BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4	E	**51**	20.00	33.70	85.5	50.83	0.06	08/21/2023

Batch R335354 **SampType:** MS Units **mg/L**
SampID: 23071810-015BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40		**225**	200.0	45.35	89.7	85	115	08/21/2023

Batch R335354 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23071810-015BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		40		**224**	200.0	45.35	89.5	224.7	0.12	08/21/2023

Batch R335354 **SampType:** MS Units **mg/L**
SampID: 23071810-022BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**23**	20.00	4.140	92.3	85	115	08/21/2023

Batch R335354 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23071810-022BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**23**	20.00	4.140	92.5	22.60	0.18	08/21/2023

Batch R335354 **SampType:** MS Units **mg/L**
SampID: 23071810-037BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40		**286**	200.0	116.1	85.1	85	115	08/21/2023

Batch R335354 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23071810-037BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		40		**286**	200.0	116.1	85.0	286.3	0.04	08/21/2023

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Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40		**230**	200.0	41.06	94.7	85	115	08/24/2023

Batch R335479 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23071810-101BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

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	08/17/2023

Batch R335223 **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	100.8	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: ICV/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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Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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

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:** 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: MBLK-210814

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
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 23071810-004DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**

SampID: 23071810-016CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: MBLK-210815

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: LCS-210815

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		**0.468**	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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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: 23071810-034DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**

SampID: 23071810-034DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**1.83**	2.000	0	91.7	1.832	0.08	08/15/2023
Arsenic		0.0250		**0.519**	0.5000	0	103.8	0.5140	0.93	08/15/2023
Barium		0.0025		**1.86**	2.000	0.05010	90.7	1.856	0.42	08/15/2023
Beryllium		0.0005		**0.0465**	0.0500	0	93.0	0.04610	0.86	08/15/2023
Boron		0.0200		**1.48**	0.5000	1.000	95.8	1.472	0.48	08/15/2023
Cadmium		0.0020		**0.0469**	0.0500	0	93.8	0.04730	0.85	08/15/2023
Chromium		0.0050		**0.182**	0.2000	0	91.2	0.1816	0.44	08/15/2023
Copper		0.0050		**0.237**	0.2500	0	94.7	0.2337	1.28	08/15/2023
Iron		0.0400		**7.59**	2.000	5.680	95.5	7.540	0.66	08/15/2023
Lead		0.0150		**0.456**	0.5000	0	91.1	0.4525	0.68	08/15/2023
Manganese		0.0070		**0.983**	0.5000	0.5338	89.8	0.9760	0.71	08/15/2023
Molybdenum		0.0100		**0.457**	0.5000	0	91.4	0.4579	0.17	08/15/2023
Nickel		0.0050		**0.473**	0.5000	0	94.6	0.4700	0.68	08/15/2023
Silver		0.0070		**0.0466**	0.0500	0	93.2	0.04580	1.73	08/15/2023
Zinc		0.0100		**0.478**	0.5000	0	95.6	0.4741	0.84	08/15/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**

SampID: LCS-210825

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**

SampID: 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**

SampID: 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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**

SampID: MBLK-210902

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**

SampID: LCS-210902

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**1.80**	2.000	0.02120	88.9	1.793	0.39	08/16/2023
Arsenic		0.0250		**0.462**	0.5000	0	92.5	0.4561	1.39	08/16/2023
Barium		0.0025		**1.94**	2.000	0.09310	92.2	1.914	1.19	08/16/2023
Beryllium		0.0005		**0.0443**	0.0500	0	88.6	0.04460	0.67	08/16/2023
Boron		0.0200		**0.452**	0.5000	0	90.3	0.4456	1.32	08/16/2023
Cadmium		0.0020		**0.0418**	0.0500	0	83.6	0.04150	0.72	08/16/2023
Chromium		0.0050		**0.180**	0.2000	0	90.1	0.1784	1.00	08/16/2023
Copper		0.0050		**0.242**	0.2500	0	96.6	0.2388	1.17	08/16/2023
Iron		0.0400		**1.78**	2.000	0	89.2	1.772	0.71	08/16/2023
Lead		0.0150		**0.434**	0.5000	0	86.8	0.4307	0.74	08/16/2023
Manganese		0.0070		**0.458**	0.5000	0.003900	90.9	0.4577	0.15	08/16/2023
Molybdenum		0.0100		**0.450**	0.5000	0	90.0	0.4424	1.68	08/16/2023
Nickel		0.0050		**0.437**	0.5000	0	87.4	0.4321	1.10	08/16/2023
Silver		0.0070		**0.0475**	0.0500	0	95.0	0.04730	0.42	08/16/2023
Zinc		0.0100		**0.450**	0.5000	0	89.9	0.4464	0.74	08/16/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**1.81**	2.000	0	90.7	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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**

SampID: 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 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**

SampID: 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**

SampID: 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**

SampID: 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**

SampID: 23071810-012CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 23071810-012CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**87.8**	2.500	83.60	169.2	87.15	0.78	08/15/2023
Magnesium		0.0500	S	**42.8**	2.500	39.63	126.4	42.82	0.09	08/15/2023
Potassium		0.100		**3.44**	2.500	0.6776	110.3	3.429	0.19	08/15/2023
Sodium		0.0500	S	**42.3**	2.500	39.16	125.6	42.15	0.36	08/15/2023

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
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**
SampID: LCS-210812

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 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**

SampID: 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: LCS-210813

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	08/16/2023
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**

SampID: 23071810-082CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**

SampID: 23071810-082CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**96.0**	2.500	94.57	56.0	96.11	0.15	08/16/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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

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	08/16/2023
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**

SampID: LCS-210901

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**
SampID: MBLK-211078

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	08/21/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/21/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/21/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/21/2023

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**

SampID: MBLK-211883

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	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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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

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	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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: LCS-212184

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.59**	2.500	0	103.5	85	115	09/26/2023
Calcium		0.100		**2.53**	2.500	0	101.1	85	115	09/20/2023
Calcium		0.100		**2.54**	2.500	0	101.5	85	115	09/26/2023
Lead		0.0150		**0.498**	0.5000	0	99.6	85	115	09/26/2023
Lead		0.0150		**0.495**	0.5000	0	99.0	85	115	09/20/2023
Lead		0.0150		**0.515**	0.5000	0	103.0	85	115	09/25/2023
Lead		0.0150		**0.492**	0.5000	0	98.5	85	115	09/26/2023
Magnesium		0.0500		**2.40**	2.500	0	96.1	85	115	09/26/2023
Magnesium		0.0500		**2.48**	2.500	0	99.3	85	115	09/20/2023
Magnesium		0.0500		**2.38**	2.500	0	95.3	85	115	09/26/2023
Potassium		0.100		**2.45**	2.500	0	98.0	85	115	09/20/2023
Potassium		0.100		**2.68**	2.500	0	107.2	85	115	09/26/2023
Potassium		0.100		**2.56**	2.500	0	102.3	85	115	09/26/2023
Silicon	*	0.0500		**0.527**	0.5000	0	105.4	85	115	09/26/2023
Sodium		0.0500		**2.52**	2.500	0	100.9	85	115	09/26/2023
Sodium		0.0500		**2.37**	2.500	0	94.7	85	115	09/20/2023
Sodium		0.0500		**2.50**	2.500	0	100.2	85	115	09/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: MBLK-210784

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	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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 23071810-002DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: MBLK-210814

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
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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 23071810-004DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**3.10**	4.000	0.01385	77.2	75	125	08/31/2023
Antimony		0.0010		**0.949**	1.000	0	94.9	75	125	08/31/2023
Arsenic		0.0010		**0.906**	1.000	0.002154	90.4	75	125	08/31/2023
Barium		0.0010		**3.70**	4.000	0.09539	90.2	75	125	08/31/2023
Beryllium		0.0010		**0.0866**	0.1000	0	86.6	75	125	08/31/2023
Boron		0.0250		**0.913**	1.000	0.03014	88.3	75	125	08/31/2023
Cadmium		0.0010		**0.0896**	0.1000	0	89.6	75	125	08/31/2023
Chromium		0.0015		**0.349**	0.4000	0	87.2	75	125	08/31/2023
Cobalt		0.0010		**0.994**	1.000	0.0005190	99.4	75	125	08/31/2023
Copper		0.0010		**0.437**	0.5000	0.001017	87.3	75	125	08/31/2023
Iron		0.0250		**3.94**	4.000	0.4055	88.4	75	125	08/31/2023
Lead		0.0010		**0.934**	1.000	0	93.4	75	125	08/31/2023
Manganese		0.0200	S	**1.93**	1.000	1.492	44.3	75	125	09/13/2023
Molybdenum	*	0.0015		**0.920**	1.000	0.0008750	92.0	75	125	08/31/2023
Nickel		0.0010		**0.867**	1.000	0.0007445	86.6	75	125	08/31/2023
Selenium		0.0010		**0.791**	1.000	0	79.1	75	125	08/31/2023
Silver		0.0010		**0.0985**	0.1000	0	98.5	75	125	08/31/2023
Thallium		0.0020		**0.437**	0.5000	0	87.5	75	125	08/31/2023
Vanadium		0.0050		**0.861**	1.000	0	86.1	75	125	08/31/2023
Zinc		0.0150		**0.776**	1.000	0	77.6	75	125	08/31/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 23071810-036DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.60**	2.000	0	79.9	75	125	08/30/2023
Antimony		0.0010		**0.463**	0.5000	0	92.5	75	125	08/30/2023
Arsenic		0.0010		**0.503**	0.5000	0.001345	100.4	75	125	08/30/2023
Barium		0.0010		**1.90**	2.000	0.04878	92.8	75	125	08/30/2023
Beryllium		0.0010		**0.0438**	0.0500	0	87.6	75	125	08/30/2023
Boron		0.0250		**1.45**	0.5000	1.025	85.3	75	125	08/30/2023
Cadmium		0.0010		**0.0445**	0.0500	0	89.0	75	125	08/30/2023
Chromium		0.0015		**0.181**	0.2000	0	90.7	75	125	08/30/2023
Cobalt		0.0010		**0.499**	0.5000	0.03509	92.8	75	125	08/30/2023
Copper		0.0010		**0.228**	0.2500	0.001314	90.8	75	125	08/30/2023
Iron		0.0250		**7.36**	2.000	5.848	75.7	75	125	08/30/2023
Lead		0.0010		**0.483**	0.5000	0	96.7	75	125	08/30/2023
Manganese		0.0020		**0.976**	0.5000	0.5611	83.0	75	125	08/30/2023
Molybdenum	*	0.0015		**0.480**	0.5000	0.001421	95.7	75	125	08/30/2023
Nickel		0.0010		**0.456**	0.5000	0.001943	90.8	75	125	08/30/2023
Selenium		0.0010		**0.449**	0.5000	0	89.8	75	125	08/30/2023
Silver		0.0010		**0.0497**	0.0500	0	99.4	75	125	08/30/2023
Thallium		0.0020		**0.238**	0.2500	0	95.3	75	125	08/30/2023
Vanadium		0.0050		**0.459**	0.5000	0	91.9	75	125	08/30/2023
Zinc		0.0150		**0.413**	0.5000	0	82.6	75	125	08/30/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: MBLK-210825

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	09/10/2023
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: LCS-210825

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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: 23071810-028DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.92**	2.000	0.01577	95.2	75	125	09/14/2023
Antimony		0.0010		**0.462**	0.5000	0	92.4	75	125	09/01/2023
Arsenic		0.0010		**0.544**	0.5000	0	108.8	75	125	09/14/2023
Barium		0.0010		**2.28**	2.000	0.1003	108.9	75	125	09/14/2023
Beryllium		0.0010		**0.0492**	0.0500	0	98.4	75	125	09/14/2023
Boron		0.0250		**0.503**	0.5000	0	100.6	75	125	09/14/2023
Cadmium		0.0010		**0.0496**	0.0500	0	99.3	75	125	09/14/2023
Chromium		0.0015		**0.209**	0.2000	0.0009832	103.9	75	125	09/14/2023
Cobalt		0.0010		**0.472**	0.5000	0	94.3	75	125	09/01/2023
Copper		0.0010		**0.256**	0.2500	0.001184	101.9	75	125	09/14/2023
Iron		0.0250		**2.08**	2.000	0.02414	102.7	75	125	09/14/2023
Lead		0.0010		**0.531**	0.5000	0	106.3	75	125	09/14/2023
Manganese		0.0020		**0.544**	0.5000	0.004646	107.8	75	125	09/14/2023
Molybdenum	*	0.0015		**0.500**	0.5000	0.0007224	99.9	75	125	09/14/2023
Nickel		0.0010		**0.509**	0.5000	0.0004698	101.7	75	125	09/14/2023
Selenium		0.0010		**0.456**	0.5000	0.002674	90.7	75	125	09/01/2023
Silver		0.0010		**0.0467**	0.0500	0	93.4	75	125	09/14/2023
Thallium		0.0020		**0.226**	0.2500	0	90.4	75	125	09/01/2023
Vanadium		0.0050		**0.454**	0.5000	0	90.8	75	125	09/01/2023
Zinc		0.0150		**0.487**	0.5000	0	97.4	75	125	09/14/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**
SampID: MBLK-210928

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	09/08/2023
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	09/08/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	09/08/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	09/08/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/08/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/08/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/08/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/08/2023
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	09/08/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/08/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/08/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/08/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	09/08/2023
Nickel		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/08/2023
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	09/08/2023
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	09/08/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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** RPD Limit **20**
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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**
SampID: 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**
SampID: 23071810-012CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**
SampID: LCS-210812

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 23071810-101CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		**0.483**	0.5000	0.01088	94.3	75	125	09/11/2023

Batch 210812 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23071810-101CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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**

SampID: MBLK-210813

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	08/31/2023
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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: MBLK-210826

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
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.07**	2.000	0	103.6	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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: 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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**
SampID: LCS-210901

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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**
SampID: 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**

SampID: MBLK-210926

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	09/10/2023
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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:** 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
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**

SampID: 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**

SampID: 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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**
SampID: 23071810-114BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-021CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
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

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**
SampID: 23071810-002CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-002CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00571**	0.0050	0	114.2	0.005563	2.63	08/11/2023

Batch 210710 **SampType:** MBLK Units **mg/L**
SampID: MBLK-210710

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	08/14/2023

Batch 210710 **SampType:** LCS Units **mg/L**
SampID: LCS-210710

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00513**	0.0050	0	102.6	85	115	08/14/2023

Batch 210850 **SampType:** MBLK Units **mg/L**
SampID: MBLK-210850

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	08/15/2023

Batch 210850 **SampType:** LCS Units **mg/L**
SampID: LCS-210850

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00491**	0.0050	0	98.2	85	115	08/15/2023

Batch 210851 **SampType:** MBLK Units **mg/L**
SampID: MBLK-210851

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	08/15/2023

Batch 210851 **SampType:** LCS Units **mg/L**
SampID: LCS-210851

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00503**	0.0050	0	100.7	85	115	08/15/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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**
SampID: 23071810-034CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-034CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00508**	0.0050	0	101.6	0.005297	4.21	08/15/2023

Batch 210851 **SampType:** MS Units **mg/L**
SampID: 23071810-060CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-060CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00465**	0.0050	0	93.0	0.004810	3.41	08/15/2023

Batch 210857 **SampType:** MBLK Units **mg/L**
SampID: MBLK-210857

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	08/15/2023

Batch 210857 **SampType:** LCS Units **mg/L**
SampID: LCS-210857

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00477**	0.0050	0	95.4	85	115	08/15/2023

Batch 210857 **SampType:** MS Units **mg/L**
SampID: 23071810-070CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
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**
SampID: 23071810-070CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00489**	0.0050	0	97.8	0.004871	0.43	08/15/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

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	08/15/2023

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

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	08/23/2023

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

Teklab, Inc. Environmental Laboratory

Quality Control Results

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

Teklab, Inc. Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071810
Report Date: 21-Nov-23

Carrier: Justin Colp

Received By: ANC

Completed by: Amber Dilallo
On: 10-Aug-23

Reviewed by: Ellie Hopkins
On: 15-Aug-23

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

CHAIN-OF-CUSTODY / Analytical Request Document

COF-257-103

23071810

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

Page: 1 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G101			8-9-23	1451		5	2	1	1		1										✓									23071810-001
2	G102			8-9-23	1507		7	2	2	2		1									✓	✓			✓			✓			002
3	G103						7	2	2	2		1										✓			✓			✓			003
4	G105						7	2	2	2		1										✓			✓			✓			004
5	G106						7	2	2	2		1									✓	✓			✓			✓			005
6	G107						5	2	1	1		1										✓									006
7	G108			8-9-23	0948		5	2	1	1		1										✓									007
8	G109				1010		5	2	1	1		1										✓									008
9	G110				1028		5	2	1	1		1									✓	✓									009
10	G111				1047		5	2	1	1		1										✓									010
11	G119				1132		5	2	1	1		1										✓									011
12	G120				1149		6	2	1	2		1									✓	✓									012
13	G121				1219		5	2	1	1		1										✓									013
14	G122				1237		5	2	1	1		1										✓									014
15	G123				1257		5	2	1	1		1										✓									015
16	G124			↓	1313		5	2	1	1		1										✓									016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0	J. Colp	8-9	1752	Allison Colin	8/9	1752	3.4	Y	N	
						1745	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: Justin Colp

SIGNATURE of SAMPLER: Justin Colp DATE Signed (MM/DD/YY): 8-7-23

Added HNO_3 to G111 (D) & G303 (T&D) (92447) pH ✓ 90719 JM 8/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N / 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	G125			8-9-23	1327		6	2	1	2	1								✓	✓										23071810-017
2	G126			8-9-23	1401		5	2	1	1	1									✓										018
3	G151						4	2		1	1																	✓		019
4	G152						4	2		1	1																	✓		020
5	G153						4	2		1	1																	✓		021
6	G154						5	2		2	1															✓		✓		022
7	G155						4	2		1	1																	✓		023
8	G200						7	2	2	2	1						✓		✓				✓		✓		✓			024
9	G206						7	2	2	2	1						✓						✓		✓		✓			025
10	G206D						6	2	2	2							✓						✓		✓					026
11	G207						6	2	1	2	1												✓				✓			027
12	G208						6	2	1	2	1												✓				✓			028
13	G209						7	2	2	2	1							✓					✓		✓		✓			029
14	G210						6	2	1	2	1												✓				✓			030
15	G211						6	2	1	2	1												✓				✓			031
16	G212						7	2	2	2	1							✓					✓		✓		✓			032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q3 Rev 0	J. Cole	8-9	1752	Allison Cole	8/9	1752		Y	N	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cole

SIGNATURE of SAMPLER: Justin Cole DATE Signed (MM/DD/YY): 8-9-23

COF-257/103

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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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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						7	2	2	2		1							✓					✓		✓		✓			230718.10-033
2	G214						6	2	1	2		1												✓				✓			034
3	G215						7	2	2	2		1							✓					✓		✓		✓			035
4	G216						6	2	1	2		1												✓				✓			036
5	G217						7	2	2	2		1							✓					✓		✓		✓			037
6	G218						7	2	2	2		1							✓					✓		✓		✓			038
7	G270						7	2	2	2		1					✓			✓				✓		✓	✓	✓			039
8	G271						7	2	2	2		1								✓					✓	✓		✓			040
9	G272						6	2	1	2		1													✓			✓			041
10	G273						7	2	2	2		1									✓				✓	✓		✓			042
11	G274						6	2	1	2		1													✓			✓			043
12	G275						7	2	2	2		1									✓				✓	✓		✓			044
13	G275D						6	2	2	2											✓				✓	✓					045
14	G276						7	2	2	2		1									✓				✓	✓		✓			046
15	G277						7	2	2	2		1									✓				✓	✓		✓			047
16	G278						6	2	1	2		1																✓			048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0				Allison Colin	8/9	1752	Temp in °C: ; Received on ice (Y/N): Y; Custody Sealed Cooler (Y/N): N; Samples Intact (Y/N):

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):

COF-257103

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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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G279						7	2	2	2		1								✓						✓	✓	✓	✓			23071810-049
2	G280						7	2	2	2		1						✓		✓						✓	✓	✓	✓			050
3	G281						7	2	2	2		1					✓	✓									✓	✓				051
4	G283						6	2	2	2										✓						✓	✓					052
5	G284						6	2	2	2										✓						✓	✓					053
6	G285						6	2	2	2										✓						✓	✓					054
7	G286						0																			✓						055
8	G287						0																			✓						056
9	G288						0																			✓						057
10	G301			8-9-23	1113		6	2	2	2						✓							✓				✓					058
11	G302			8-9-23	1155		6	2	2	2						✓							✓				✓					059
12	G303			8-9-23	1526		6	2	2	2						✓							✓				✓					060
13	G305						6	2	2	2						✓							✓				✓					061
14	G306						6	2	2	2						✓							✓				✓					062
15	G307						6	2	2	2						✓							✓				✓					063
16	G307D						6	2	2	2						✓							✓				✓					064

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-9	1752	Allison Colp	8/9	1752	Y N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp 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)

COF-257-103

23071810

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 5 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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.
								Requested Analysis Filtered (Y/N)																									
1	G308						6	2	2	2							✓						✓				✓					23071810-065
2	G309						0										✓						✓				✓					066
3	G310			8-9-23	1036		6	2	2	2							✓						✓				✓					067
4	G312				1228		6	2	2	2							✓						✓				✓					068
5	G313				1412		6	2	2	2							✓						✓				✓					069
6	G314				1433		6	2	2	2							✓						✓				✓					070
7	G314D			↓	1453		6	2	2	2							✓						✓				✓					071
8	G315						6	2	2	2							✓						✓				✓					072
9	G316			8-9-23	1343		6	2	2	2							✓						✓				✓					073
10	G317						0																✓									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			
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q3 Rev 0	J-Colp	8-9	1752	Allison Colp	8/9	1752		Y	N	

SAMPLER NAME AND SIGNATURE		
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.

COF-23Q3-003
23071810

Page: 6 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G407						7	2	2	2		1						✓	✓					✓			✓	✓				23071810-081
2	G410						4	1		2		1							TB	Bat 1 (2x3)								✓				082
3	G411						4	1		2		1																✓				083
4	G1001						10	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						10	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 Cohn	8/9	1752	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):			Y	N	

COF-257-103

2307181D

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 DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N: 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	R205						6	2	1	2	1														✓				✓		23071810-097
2	SG-02						0										✓	✓					✓	✓								098
3	SG-03						0										✓	✓					✓	✓								099
4	SG-04						0											✓	✓	✓				✓	✓	✓						100
5	T127			8-9-23	1108		6	2	1	2	1										✓	✓									101
6	T128			8-9-23	1416		5	2	1	1	1											✓										102
7	X201						6	2	2	2										✓					✓	✓						103
8	XPW01						6	2	2	2							✓									✓						104
9	XPW02						6	2	2	2							✓									✓						105
10	XSG-01						0										✓						✓									106
11	Field Blank						8	2	3	2	1						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		107
12	G102 Duplicate			8-9-23	1507		7	2	2	2	1										✓	✓			✓			✓				108
13	G200 Duplicate						7	2	2	2	1								✓		✓				✓	✓		✓				109
14	G273 Duplicate						7	2	2	2	1									✓					✓	✓		✓				110
15	G301 Duplicate			8-9-23	1311		6	2	2	2							✓						✓			✓						111
16	R201 Duplicate						7	2	2	2	1								✓		✓				✓	✓		✓				112

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-9	1752	Allison Mohn	8/9	1752	

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			Y	N	
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8-9-23				

CHAIN-OF-CUSTODY / Analytical Request Document

COF-257-103

23071810

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

Page: 1 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY: NPDES, GROUND WATER, DRINKING WATER, UST, RCRA, OTHER

Site Location STATE: IL

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G101						5	2	1	1		1										✓									23071810-001
2	G102						7	2	2	2		1									✓	✓			✓				✓			002
3	G103			8-10-23	0823		7	2	2	2		1										✓			✓				✓			003
4	G105				0859		7	2	2	2		1										✓			✓				✓			004
5	G106				0916		7	2	2	2		1									✓	✓			✓				✓			005
6	G107			↓	0943		5	2	1	1		1										✓										006
7	G108						5	2	1	1		1										✓										007
8	G109						5	2	1	1		0										✓										008
9	G110						5	2	1	1		1									✓	✓										009
10	G111						5	2	1	1		1										✓										010
11	G119						5	2	1	1		1										✓										011
12	G120						6	2	1	2		1									✓	✓										012
13	G121						5	2	1	1		1										✓										013
14	G122						5	2	1	1		1										✓										014
15	G123						5	2	1	1		1										✓										015
16	G124						5	2	1	1		1										✓										016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q3 Rev 0	J. Colp	8-10	1730	[illegible]	8/10/23	1730	2.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8-10-23

pH of 7191 7929. added 1:1 5M NaOH (902183) to G106 and G104. Added 1 vial NaOH (816623) to G103 and G54. Added HNO3 to total and dissolved from G154. CRT 8-11-23.

CHAIN-OF-CUSTODY / Analytical Request Document

~~COF-257-103~~ 230 7181D

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

Page: 2 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER; UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information / 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G125						6	2	1	2	1										✓	✓									230-7181D-017
2	G126						5	2	1	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	1								✓		✓				✓		✓		✓			024
9	G206						7	2	2	2	1								✓						✓		✓		✓			025
10	G206D						6	2	2	2									✓						✓		✓					026
11	G207						6	2	1	2	1														✓				✓			027
12	G208						6	2	1	2	1														✓				✓			028
13	G209						7	2	2	2	1								✓						✓		✓		✓			029
14	G210						6	2	1	2	1														✓				✓			030
15	G211						6	2	1	2	1														✓				✓			031
16	G212			8-10-23	1528		7	2	2	2	1								✓						✓		✓		✓			032

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q3 Rev 0	J. Colp	8-10	1730	[signature]	8/10/23	1730		Y	N	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8-10-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

230718.10

Page: 3 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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N ↓ 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			8-10-23	1508		7	2	2	2		1							✓					✓		✓		✓			230718.10-033
2	G214			8-10-23	1450		6	2	1	2		1												✓				✓			034
3	G215				1416		7	2	2	2		1							✓					✓		✓		✓			035
4	G216				1347		6	2	1	2		1												✓				✓			036
5	G217				1325		7	2	2	2		1							✓					✓		✓		✓			037
6	G218			↓	1253		7	2	2	2		1							✓					✓		✓		✓			038
7	G270						7	2	2	2		1					✓			✓			✓		✓	✓	✓	✓	✓			039
8	G271						7	2	2	2		1								✓					✓	✓		✓				040
9	G272						6	2	1	2		1													✓			✓				041
10	G273						7	2	2	2		1								✓					✓	✓		✓				042
11	G274						6	2	1	2		1													✓			✓				043
12	G275						7	2	2	2		1								✓					✓	✓		✓				044
13	G275D						6	2	2	2										✓					✓	✓						045
14	G276						7	2	2	2		1								✓					✓	✓		✓				046
15	G277						7	2	2	2		1								✓					✓	✓		✓				047
16	G278						6	2	1	2		1													✓			✓				048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0	J. Colp	8-10	1730	[signature]	8/10/23	1730		Y	N	
							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: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8-10-23

COF-257-103
230 71810

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. 900lh St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information — 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	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	G279						7	2	2	2		1					✓			✓		see 101/103			✓	✓	✓	✓			23071810-049
2	G280						7	2	2	2		1					✓	✓		✓		✗	✓		✓	✓	✓	✓			050
3	G281						7	2	2	2		1					✓	✓					✓	✓			✓	✓			051
4	G283						6	2	2	2										✓					✓	✓					052
5	G284						6	2	2	2										✓					✓	✓					053
6	G285						6	2	2	2										✓					✓	✓					054
7	G286						0																		✓						055
8	G287						0																		✓						056
9	G288						0																		✓						057
10	G301						6	2	2	2							✓						✓			✓					058
11	G302						6	2	2	2							✓						✓			✓					059
12	G303						6	2	2	2							✓						✓			✓					060
13	G305			8-10-23	1236		6	2	2	2							✓						✓			✓					061
14	G306			8-10-23	1101		6	2	2	2							✓						✓			✓					062
15	G307 (Amt Pump)			8-10-23	N/A		6	2	2	2							✓						✓			✓					063
16	G307D			8-10-23	1212		6	2	2	2							✓						✓			✓					064

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0	J. Colp	8-10	1730	[illegible]	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				

COF-257-103
230711810

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 5 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER; UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G308			8-10-23	1308		6	2	2	2							✓						✓				✓					23071810-065
2	G309						0										✓						✓									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						6	2	2	2							✓						✓				✓					071
8	G315			8-10-23	1129		6	2	2	2							✓						✓				✓					072
9	G316						6	2	2	2							✓						✓				✓					073
10	G317						0										✓						✓									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. Colp	8-10	1730	Jamie Allen	8/10/23	1730	Y / N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp 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)

COF-257-103 230 11810

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 6 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G407			8-10-23	1432		7	2	2	2		1							✓	✓				✓			✓	✓				23071810-081
2	G410			8-10-23	1458		4	1		2		1								✓	TB Sent 8/11/23				✓			✓				082
3	G411			8-10-23	1524		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			8-10-23	0840		7	2	2	2		1									✓		✓		✓			✓				095
16	R201						7	2	2	2		1									✓				✓	1	✓		✓			096

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-10	1730	[illegible]	8/10/23	1730	

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			Y	N	
SIGNATURE of SAMPLER:	[signature]	DATE Signed (MM/DD/YY): 8-10-23				

COF-257-103
230-71810

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 7 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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-108	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	R205						6	2	1	2		1														✓				✓		23071810-097
2	SG-02						0											✓	✓					✓	✓							098
3	SG-03						0											✓	✓					✓	✓							099
4	SG-04						0												✓	✓	✓				✓	✓	✓						100
5	T127						6	2	1	2		1										✓	✓									101
6	T128						5	2	1	1		1											✓										102
7	X201						6	2	2	2											✓					✓	✓						103
8	XPW01			8-10-23	1322		6	2	2	2								✓									✓						104
9	XPW02			8-10-23	1345		6	2	2	2								✓									✓						105
10	XSG-01						0											✓						✓									106
11	Field Blank						8	2	3	2		1						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		107
12	G102 Duplicate						7	2	2	2		1										✓	✓			✓				✓			108
13	G200 Duplicate						7	2	2	2		1								✓		✓				✓	✓			✓			109
14	G273 Duplicate						7	2	2	2		1									✓					✓	✓			✓			110
15	G301 Duplicate						6	2	2	2								✓						✓			✓						111
16	R201 Duplicate						7	2	2	2		1								✓		✓				✓	✓			✓			112

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0	J. Colp	8-10	1730	Emily Dibble	8/10/23	1730		Y	N	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] 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)

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 5 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER; UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G308						6	2	2	2							✓						✓				✓					23071810-065
2	G309						0																✓									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						6	2	2	2							✓						✓				✓					071
8	G315						6	2	2	2							✓						✓				✓					072
9	G316						6	2	2	2							✓						✓				✓					073
10	G317						0																✓									074
11	G401			8/11/23	1127		7	2	2	2	1							✓						✓			✓	✓				075
12	G402			8/11/23	1209		7	2	2	2	1							✓						✓			✓	✓				076
13	G403			8/11/23	1051		7	2	2	2	1							✓						✓			✓	✓				077
14	G404						7	2	2	2	1							✓						✓			✓	✓				078
15	G405			8/11/23	1247		7	2	2	2	1							✓						✓			✓	✓				079
16	G406			8/11/23	1013		7	2	2	2	1							✓						✓			✓	✓				080

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	TekHaz	8/11/23	1427	[illegible]	8/11/23	1427	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Joe Kittel		Temp in °C	Received on Ice (Y/N)	Y
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8/11/23	Custody Sealed Cooler (Y/N)		N
			Samples Intact (Y/N)		

PH: 907197/9929 (9244?)
Added HNO3 to G405 diss.
cont. LM 8/11

10.2° GG #5

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G125																															
2	G126																															
3	G151																															
4	G152																															
5	G153																															
6	G154																															
7	G155																															
8	G200																															
9	G206				8-14-23	1152																										-025
10	G206D				8-14-23	1134																										-026
11	G207																															
12	G208				8-14-23	1109																										-028
13	G209				↓	1046																										-029
14	G210					1029																										-030
15	G211				↓	1236																										-031
16	G212																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-14	1810	Allison Colp	8/14	1810	5.8
							#5

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Justin Colp				
SIGNATURE of SAMPLER:		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)

PH: 90719
AC 8/15

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 DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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				DRY																									-044
13	G275D				1120																									-045
14	G276				1235																									-046
15	G277				DRY																									-047
16	G278																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-14	1810		8/14	1870	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp

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)

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	REGULATORY AGENCY
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	
		Address: see Section A	NPDES GROUND WATER DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:	UST RCRA OTHER
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:	Site Location STATE: IL
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information — 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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.
								Requested Analysis Filtered (Y/N)																									
1	G279			8-14-23	DRY																											045
2	G280			↓	1448																											050
3	G281			↓	1606																											057
4	G283																															
5	G284																															
6	G285																															
7	G286																															
8	G287																															
9	G288																															
10	G301																															
11	G302																															
12	G303																															
13	G305																															
14	G306																															
15	G307																															
16	G307D																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-14	1810	Allison Colp	8/14	1810	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Jason Colp		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8-14-23				

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:		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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911	Fax:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Name:		Profile #:	
		Project Number:	2285		

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

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

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)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G308																														
2	G309																														
3	G310																														
4	G312																														
5	G313																														
6	G314																														
7	G314D																														
8	G315																														
9	G316																														
10	G317																														
11	G401																														
12	G402																														
13	G403																														
14	G404			8-14-23	1543																										-078
15	G405																														
16	G406																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Cole	8-14	1810	Allison Cole	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:	Justin Cole					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8-14-23				

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:	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 STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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			8-14-23	1534																										~~081-097~~
2	SG-02																														
3	SG-03																														
4	SG-04																														
5	T127																														
6	T128																														
7	X201 (Amt Blank			8-14-23	N/A																										-103
8	XPW01																														
9	XPW02																														
10	XSG-01																														
11	Field Blank																														
12	G102 Duplicate																														
13	G200 Duplicate				1432																										-109
14	G273 Duplicate			8-14-23	~~1507~~ JC																										-110
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. Colp	1810	8-14	Allison Colp	8/14	1810	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp 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)

CHAIN-OF-CUSTODY / Analytical Request Document

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

29018D

Page: 2 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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G125																														
2	G126																														
3	G151																														
4	G152																														
5	G153																														
6	G154																														
7	G155																														
8	G200 insufficient water			8-15-23	DRY																										
9	G206																														
10	G206D																														
11	G207 DRY after rerun			8-15-23	DRY																										
12	G208																														
13	G209																														
14	G210																														
15	G211																														
16	G212																														

Residual Chlorine (Y/N): Yes Vm 90719 79929 X201 added HNO3 (9244T) & H2SO4 (9070) gm 8/15/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Cole	8-15	1518		8-15-23	1518	12.5
							Thm#1

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cole

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 8-15-23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

COF-257103

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

Page: 3 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY: NPDES, GROUND WATER, DRINKING WATER, UST, RCRA, OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

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)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G271																														
9	G272																														
10	G273																														
11	G274																														
12	G275																														
13	G275D																														
14	G276																														
15	G277																														
16	G278 Washington Water			8-15-23	DFH																										

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	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cold

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8-15-23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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

230-71810 COOF-257-103

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N ⬇ 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.
								Requested Analysis Filtered (Y/N)																								
1	G279																														
2	G280																														
3	G281																														
4	G283			8-15-23	1145																										
5	G284			↓	1010																										
6	G285			↓	1104																										
7	G286																														
8	G287																														
9	G288																														
10	G301																														
11	G302																														
12	G303																														
13	G305																														
14	G306																														
15	G307																														
16	G307D																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Cold	8-15	1518	[signature]	8-15-23	1518	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cold

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8-15-23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

COF-257/103

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G407																															
2	G410																															
3	G411																															
4	G1001 insufficient water			8-15-23	DKY																											
5	G1003																															
6	L203 insufficient water			8-15-23	DKY																											
7	MW03D																															
8	MW11D																															
9	MW11S																															
10	MW12D																															
11	MW16D																															
12	MW16S																															
13	MW20S																															
14	NE Riser			8-15-23	1312																											
15	R104																															
16	R201 ★			8-15-23	DKY																											

MATRIX CODES: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

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	

★=hole in air line

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Justin Colp		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
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-257103

Page: 7 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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			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	DRY																											
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		8-16-23	1514	

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 Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

23071810

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G308 (resample)			9/19/23	1100		1			1							X						X				X				23071810-113
2	X201 (resample)			"	1017		1			1										X					X	X					-114
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																
13																																
14																																
15																																
16																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-23Q3 Rev 0		9/19/23	1312		9/19/23	BR	9.4	Y	N	Y

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:		DATE Signed (MM/DD/YY): 9/18/23	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:						

LRAL

pH V 90719
Dups 9/19/23

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
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

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)

Teklab, Inc.
Environmental Laboratory

Definitions

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

Teklab, Inc. Environmental Laboratory

Case Narrative

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
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

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
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

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Accreditations

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Teklab, Inc. Environmental Laboratory

Laboratory Results

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

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

Teklab, Inc. Environmental Laboratory

Sample Summary

Client: Ramboll
Work Order: 23071811
Client Project: COF-23Q3
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

Teklab, Inc.
Environmental Laboratory
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

Teklab, Inc. Environmental Laboratory

Dates Report

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
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

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				09/08/2023 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

Teklab, Inc. Environmental Laboratory

Dates Report

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
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

Teklab, Inc. Environmental Laboratory

Receiving Check List

Client: Ramboll
Client Project: COF-23Q3

Work Order: 23071811
Report Date: 28-Sep-23

Carrier: Justin Colp

Received By: ANC

Completed by: Amber Dilallo
On: 10-Aug-23

Reviewed by: Ellie Hopkins
On: 15-Aug-23

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

2307814

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER UST RCRA OTHER

Site Location: STATE: IL

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

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)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	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	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	J. Colp	8-9	1752	Allison Colp	8/9	1752	3.4	Y	N	
Ra226/228, only.						1705				

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:	Justin Colp	DATE Signed (MM/DD/YY): 8-9-23				

Added HNO_3 (92447) to G301, G302, G303, G314, G314D & G316. pH ✓ 90719. DMS 8/10/23

23071811

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	Sample ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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)	Project No./ Lab I.D.
1	G125			8-9-23	1327																										
2	G126			8-9-23	1401																										
3	G151						2			2																			✓		23071811-001
4	G152						2			2																			✓		002
5	G153						2			2																			✓		003
6	G154						2			2																	✓		✓		004
7	G155						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						2			2									✓						✓						010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-9	1752	Allison Culin	8/9	1752	Temp in °C: Y / Received on Ice (Y/N): N / Custody Sealed Cooler (Y/N): / Samples Intact (Y/N):

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jason Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8-9-23

COF-257-103

CHAIN-OF-CUSTODY / Analytical Request Document

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

23077811

Page: 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 #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G279						2			2										✓				✓		✓	✓				23077811-022
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	1526		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. Colp	8-9	1752	Allison Colin	8/9	1752	4 2

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp 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)
	4	2	

2307 1811 2307 2671103

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 DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G308						2			2							✓						✓									23071811-035
2	G309																														
3	G310			8-9-23	1036		2			2							✓						✓									036
4	G312			8-9-23	1228		2			2							✓						✓									037
5	G313			8-9-23	1412		2			2							✓						✓									038
6	G314			8-9-23	1433		2			2							✓						✓									039
7	G314D			8-9-23	1453		2			2							✓						✓									040
8	G315						2			2							✓						✓									041
9	G316			8-9-23	1343		2			2							✓						✓									042
10	G317																														
11	G401						2			2								✓						✓				✓				043
12	G402						2			2								✓						✓				✓				044
13	G403						2			2								✓						✓				✓				045
14	G404						2			2								✓						✓				✓				046
15	G405						2			2								✓						✓				✓				047
16	G406						2			2								✓						✓				✓				048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-9	1752	Allison Colin	8/9	1782	

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			Y	N	
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8-9-23				

23071811

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 7 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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			8-9-23	1108																										
6	T128			8-9-23	1416																										
7	X201						2			2															✓						23071811-055
8	XPW01						2			2							✓															056
9	XPW02						2			2							✓															057
10	XSG-01																														
11	Field Blank						2			2							✓	✓	✓	✓			✓	✓	✓	✓		✓		✓		058
12	G102 Duplicate			8-9-23	1507																										
13	G200 Duplicate						2			2									✓						✓						059
14	G273 Duplicate						2			2										✓						✓					760
15	G301 Duplicate			8-9-23	1311		2			2							✓						✓								061
16	R201 Duplicate						2			2									✓						✓						062

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q3 Rev 0	J. Gip	8-9	1752	Allison Cole	8/9	1752		Y	N	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jason Gip

SIGNATURE of SAMPLER: Jason Gip DATE Signed (MM/DD/YY): 8.9.23

COR-257-103

2307984

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	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. Gold	8-10	1730	Mike Dacalla	8/10/23	1730	2.6	Y	N	Y
Ra226/228, only.							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

LTCS

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cuff

SIGNATURE of SAMPLER: Justin Cuff DATE Signed (MM/DD/YY): 8-10-23

HNO_3 (92447) added to G153, G155, G305, G308, G407 ERH 8/11/23
90719

COF-257-103

23071811

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	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-Cole	8-10	1730	[illegible]	8/10/23	1730	Y / N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jystin Cole

SIGNATURE of SAMPLER: [signature] 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)

CHAIN-OF-CUSTODY / Analytical Request Document

COF-257103

230 71811

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

Page: 3 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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)	Project No./ Lab I.D.
1	G213			8-10-23	1508		2			2									✓					✓							23071811-011
2	G214				1450																										
3	G215				1416		2			2									✓					✓							012
4	G216				1347																										
5	G217				1325		2			2									✓					✓							013
6	G218				1253		2			2									✓					✓							014
7	G270						2			2								✓		✓				✓		✓		✓				015
8	G271						2			2										✓						✓						016
9	G272																														
10	G273						2			2										✓						✓						017
11	G274																														
12	G275						2			2										✓						✓						018
13	G275D						2			2										✓						✓						019
14	G276						2			2										✓						✓						020
15	G277						2			2										✓						✓						021
16	G278																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-10	1730	[signature]	8/10/23	1730	4 / 2

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] 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)
	4	2	

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:

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 STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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-105	Residual Chlorine (Y/N)	Project No./ Lab I.D.
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 (AMT PUMP				N/A		2			2							✓						✓									033
16	G307D			↓	1212		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			8/10/23	1730		Y	N	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp 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)

CHAIN-OF-CUSTODY / Analytical Request Document

COF-257-103

2307181

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G308			8-10-23	1308		2			2							✓						✓									23071811-035
2	G309																															
3	G310						2			2							✓						✓									036
4	G312						2			2							✓						✓									037
5	G313						2			2							✓						✓									038
6	G314						2			2							✓						✓									039
7	G314D						2			2							✓						✓									040
8	G315			8-10-23	1129		2			2							✓						✓									041
9	G316						2			2							✓						✓									042
10	G317																															
11	G401						2			2								✓						✓				✓				043
12	G402						2			2								✓						✓				✓				044
13	G403						2			2								✓						✓				✓				045
14	G404						2			2								✓						✓				✓				046
15	G405						2			2								✓						✓				✓				047
16	G406						2			2								✓						✓				✓				048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-10			8/10/23	1730	Y / N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] 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)
	Y	N	

COF-257-103
23071811

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 6 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	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								TF	X						✓							053
15	R104			8-10-23	0840													12/1/23													
16	R201						2			2									✓						✓							054

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COF-23Q3 Rev 0	J. Colp	8-10	1730	Brian Voelker	8/10/23	1730		Y	N	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp DATE Signed (MM/DD/YY): 8-10-23

COF-257-103

23071811

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 7 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER; UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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						2			2															✓						23071811-055
8	XPW01			8-10-23	1322		2			2							✓														056
9	XPW02			8-10-23	1345		2			2							✓														057
10	XSG-01																														
11	Field Blank						2			2							✓	✓	✓	✓			✓	✓	✓	✓		✓		✓		058
12	G102 Duplicate																														
13	G200 Duplicate						2			2									✓						✓						059
14	G273 Duplicate						2			2										✓						✓						060
15	G301 Duplicate						2			2							✓						✓									061
16	R201 Duplicate						2			2									✓						✓							062

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Culp	8-10		Mark Quade	8/10/23	1730	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Culp

SIGNATURE of SAMPLER: [signature] 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)
	Y	N	

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 7

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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G125																															
2	G126																															
3	G151																															
4	G152																															
5	G153																															
6	G154																															
7	G155																															
8	G200																															
9	G206				8-14-23	1152																										007
10	G206D				8-14-23	1134																										008
11	G207																															~~010~~ EPH 8/16/23
12	G208				8-14-23	1109																										~~009~~ ~~011~~
13	G209				8-14-23	1046																										~~012~~
14	G210				8-14-23	1029																										~~013~~
15	G211				8-14-23	1236																										
16	G212																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-14	1810		8/14	1810	5.8 #S

PH 90719
AC 8/15

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Justin Colp
SIGNATURE of SAMPLER: [signature] 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)

Added HNO_3 (92447) to G270, G273, G275D, G276 um 8/15

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER; UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	X			8-14-23	1345																										-015
8	G271				8-14-23	1315																										-016
9	G272				8-14-23	1411																										~~-017~~
10	G273	X			8-14-23	1432																										-017 ~~-018~~
11	G274				~~8-14-23~~	~~1800~~ TB																										~~-019~~
12	G275				8-14-23	DRY																										-018 ~~-020~~
13	G275D	X			8-14-23	1120																										-019 ~~-020~~
14	G276	X			8-14-23	1235																										-020 ~~-022~~ -021
15	G277				8-14-23	DRY																										-021 ~~-023~~
16	G278																															

FEH 8/15/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Coll	8-14	1810		8/14	1810	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Justin Coll		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8-14-23				

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:	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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G279	DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS			8-14-23	DRY																										-022
2	G280				8-14-23	1448																										-023
3	G281				8-14-23	1606																										-024
4	G283																																
5	G284																																
6	G285																																
7	G286																																
8	G287																																
9	G288																																
10	G301																																
11	G302																																
12	G303																																
13	G305																																
14	G306																																
15	G307																																
16	G307D																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-14	1810	Allison Colp	8/14	1810	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp 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)

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G308																															
2	G309																															
3	G310																															
4	G312																															
5	G313																															
6	G314																															
7	G314D																															
8	G315																															
9	G316																															
10	G317																															
11	G401																															
12	G402																															
13	G403																															
14	G404			8-14-23	1543																											0416
15	G405																															
16	G406																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-14	1810	Allison Coles	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:	Justin Colp					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8-14-23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 7 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

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

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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			~~8-14-23~~	~~1534~~																											~~-055~~
2	SG-02																															
3	SG-03																															
4	SG-04																															
5	T127																															
6	T128																															
7	X201 (PANT RINSE)			8-14-23	N/A																											
8	XPW01																															
9	XPW02																															
10	XSG-01																															
11	Field Blank																															
12	G102 Duplicate																															
13	G200 Duplicate				1432																											
14	G273 Duplicate			8-14-23	~~1507~~ JL																											~~-060~~
15	G301 Duplicate																															
16	R201 Duplicate																															

5/15/23 FRM

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Gold	8-14	1810	Allison Colon	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:	Justin Gold					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8-14-23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

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

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)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	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	G125																														
2	G126																														
3	G151																														23071811-001
4	G152																														002
5	G153																														003
6	G154																														004
7	G155																														005
8	G200 Insufficient Water			8-15-23	DRY																										006
9	G206																														007
10	G206D																														008
11	G207 DRY AFTER (2nd)			8-15-23	DRY																										
12	G208																														
13	G209																														009
14	G210																														
15	G211																														
16	G212																														010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-15	1510		8-15-23	1518	12.4
							(Tank)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8-15-23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

23071811

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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

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

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

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)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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																													23071811-011
2	G214																													
3	G215																													012
4	G216																													
5	G217																													013
6	G218																													014
7	G270																													015
8	G271																													016
9	G272																													
10	G273																													017
11	G274																													
12	G275																													018
13	G275D																													019
14	G276																													020
15	G277																													021
16	G278 Ambient Water			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					
PRINT Name of SAMPLER:	Justin Colp		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8-15-23				

2307 1811 COF-257-103

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 4 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER UST RCRA OTHER

Site Location STATE: IL

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

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)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G279																														2307 1811 - 022
2	G280																														023
3	G281																														024
4	G283			8-15-23	1145																										025
5	G284			↓	1010																										026
6	G285			↓	1107																										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																														034 033

TE 8/15/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Cole	8-15	1518		8.15.23	1515	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cole

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8-15-23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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

23071811

Page: 6 of 7

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
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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	G407																															23071811-049
2	G410																															050
3	G411																															051
4	G1001 insufficient			8-15-23	DRY																											052
5	G1003 water																															
6	L203 insufficient			8-15-23	DRY																											
7	MW03D water																															
8	MW11D																															
9	MW11S																															
10	MW12D																															
11	MW16D																															
12	MW16S																															
13	MW20S																															
14	NE Riser			8-15-23	1312																											053
15	R104																															
16	R201 ★			8-15-23	DRY																											054

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

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	

★ - hole in Air line

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jason Colp

SIGNATURE of SAMPLER: Jason Colp DATE Signed (MM/DD/YY): 8-15-23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

COF-257-103

2307811

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

Page: 7 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

ITEM #	Section D Required Client Information — 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	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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-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.
	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							Requested Analysis Filtered (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																										2307811-054/055
8	XPW01																														056
9	XPW02																														057
10	XSG-01																														
11	Field Blank			8-15-23	1035																										058
12	G102 Duplicate																														
13	G200 Duplicate			8-15-23	DRY																										059
14	G273 Duplicate																														060
15	G301 Duplicate																														061
16	R201 Duplicate			8-15-23	DRY																										062

TE gum 8/15/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-23Q3 Rev 0	J. Colp	8-15	1578		8.15.23	1514	

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:		DATE Signed (MM/DD/YY): 8-15-23				

eurofins | Environment Testing

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

Eurofins St. Louis
13715 Rider Trail North
Earth City MO 63045

See page two for job notes and contact information.

myEOL

Eurofins St. Louis

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

Generated
9/15/2023 5:25:50 PM

Authorized for release by
Jayna Awalt, Project Manager II
Jayna.Awalt@et.eurofinsus.com
(314)298-8566

Table of Contents

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Table of Contents 3
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Receipt Checklists 11
Definitions/Glossary 12
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QC Sample Results 24
QC Association Summary 26
Tracer Carrier Summary 27

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 18.2º 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 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	Ra226/228
	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 1152	HNO3	Groundwater	✔
	23071811-008A	8/14/23 1134	HNO3	Groundwater	✔
	23071811-009A	8/14/23 1046	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
	8-16-23 1630		8-16-23 4:20 pm
~~FEDEX~~ SW 8/16/23	8-16-23 5:15 pm	~~FEDEX~~ SW 8/16/23	
		Sima Washan	8/16/23 1715

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SubCocRevA 3/2/2016

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103
APPENDIX A.

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9/15/2023

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

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.

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	Ra226/228												
	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	DRY	HNO3	Groundwater	✔												
	23071811-019A	8/14/23 1120	HNO3	Groundwater	✔												
	23071811-020A	8/14/23 1235	HNO3	Groundwater	✔												
	23071811-021A	DRY	HNO3	Groundwater	✔												
	23071811-022A	DRY	HNO3	Groundwater	✔												

*Relinquished By	Date/Time	Received By	Date/Time
	8:16:23 1630		8-16-23 4:20
	8-16-23 8:15PM	Sena Weyhn	8/16/23 1715

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
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9/15/2023

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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**
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Project# 23071811

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT | Billing/PO: 34883 | Phone: 618 344-1004 ext. 33

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
	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	✔											

*Relinquished By	Date/Time	Received By	Date/Time
	8-16-23 1630		8-16-23 9:20
	8-16-23 5:05PM	Sina Wayne	8/16/23 1715

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
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APPENDIX A.

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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 62234

Cooler Temp: | Sampler: J. Riley/B. Gillihan/J. Colp | QC Level: 3

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Project# 23071811

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT | Billing/PO: 34883 | Phone: 618 344-1004 ext. 33

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
	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	✔											

*Relinquished By	Date/Time	Received By	Date/Time
	8.16.23 1635		8.16.23 1720
	8-16-23 5:15pm	Sina Wayne	8/16/23 1715

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Collinsville, IL 62234

Cooler Temp: | Sampler: J. Riley/B. Gillihan/J. Colp | QC Level: 3

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Project# 23071811

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT | Billing/PO: 34883 | Phone: 618 344-1004 ext. 33

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
	23071811-045A	8·11·23 1051	HNO3	Groundwater	✔											
	23071811-046A	8/14/23 1543	HNO3	Groundwater	✔											
	23071811-047A	8·11·23 1241	HNO3	Groundwater	✔											
	23071811-048A	8·11·23 1013	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 By	Date/Time	Received By	Date/Time
	8·16·23 1630		8·16·23 9:20
	8-16-23 5:15pm	Simon Wickham	8/16/23 1715

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103
APPENDIX A.

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: Standad TAT | Billing/PO: 34883 | Phone: 618 344-1004 ext. 33

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
	23071811-056A	8/10/23 13:22	HNO3	Groundwater	✔											
	23071811-057A	8/10/23 13:45	HNO3	Groundwater	✔											
	23071811-058A	8/15/23 10:35	HNO3	Groundwater	✔											
	23071811-059A	Dry	HNO3	Groundwater	✔											
	23071811-060A	8·14·23 1332	HNO3	Groundwater	✔											
	23071811-061A	8·9·23 1311	HNO3	Groundwater	✔											
	23071811-062A	Dry	HNO3	Groundwater	✔											
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												

*Relinquished By	Date/Time	Received By	Date/Time
	8·16·23 1630		8·16·23 1620
	8/16/23 1815		8/16/23 1715

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA 3/X/2116

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103
APPENDIX A.

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 </= 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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.
¤	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

Method Summary

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

Sample Summary

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: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-005A
Date Collected: 08/10/23 10:46
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-5
Matrix: Water

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
Date Collected: 08/14/23 11:52
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-7
Matrix: Water

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

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Client Sample ID: 23071811-010A
Date Collected: 08/10/23 15:28
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-10
Matrix: Water

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
Date Collected: 08/10/23 15:08
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-11
Matrix: Water

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

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

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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

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

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-1
SDG: 23071811-1

Client Sample ID: 23071811-019A
Date Collected: 08/14/23 11:20
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-19
Matrix: Water

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
Date Collected: 08/14/23 12:35
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-20
Matrix: Water

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

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*

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		

Carrier	*LCS %Yield*	*LCS 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

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*94.2*		*30 - 110*
Y Carrier	*86.7*		*30 - 110*

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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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

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 (30-110)	Y (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

Tracer/Carrier Summary

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

eurofins | Environment Testing

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

Eurofins St. Louis
13715 Rider Trail North
Earth City MO 63045

See page two for job notes and contact information.

myEOL

Eurofins St. Louis

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.

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Authorization

Generated
9/28/2023 8:46:37 AM
Revision 1

Authorized for release by
Jayna Awalt, Project Manager II
Jayna.Awalt@et.eurofinsus.com
(314)298-8566

Table of Contents

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QC Association Summary 28
Tracer Carrier Summary 30

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 18.2º 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 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:

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228
	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 1152	HNO3	Groundwater	✔
	23071811-008A	8/14/23 1134	HNO3	Groundwater	✔
	23071811-009A	8/14/23 1046	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
	8-16-23 1630		8-16-23 4:20 pm
~~FEDEX~~ SW 8/16/23	8-16-23 5:15 pm	~~FEDEX~~ SW 8/16/23	
		Sima Wasfi	8/16/23 1716

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SubCocRevA 3/2/2016

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103
APPENDIX A.

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

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228												
	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	DRY	HNO3	Groundwater	✔												
	23071811-019A	8/14/23 1120	HNO3	Groundwater	✔												
	23071811-020A	8/14/23 1235	HNO3	Groundwater	✔												
	23071811-021A	DRY	HNO3	Groundwater	✔												
	23071811-022A	DRY	HNO3	Groundwater	✔												

*Relinquished By	Date/Time	Received By	Date/Time
	8:16:23 1630		8/16/23 4:20
	8/16/23 8:15PM	Sena Weyhn	8/16/23 1715

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SubCocRevA 3/2/2016

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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 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.
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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

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
	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	✔											

*Relinquished By	Date/Time	Received By	Date/Time
	8-16-23 1630		8-16-23 9:20
	8-16-23 5:05PM	Sina Wayne	8/16/23 1715

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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 62234

Cooler Temp: | Sampler: J. Riley/B. Gillihan/J. Colp | QC Level: 3

Comments: **Please Issue reports and invoices via email only**
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Project# 23071811

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT | Billing/PO: 34883 | Phone: 618 344-1004 ext. 33

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
	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	✔											

*Relinquished By	Date/Time	Received By	Date/Time
	8.16.23 1635		
	8-16-23 5:15pm	Sina Wayne	8.16.23 4:20
			8/16/23 1715

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COF-257-103
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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 62234

Cooler Temp: | Sampler: J. Riley/B. Gillihan/J. Colp | QC Level: 3

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Project# 23071811

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT | Billing/PO: 34883 | Phone: 618 344-1004 ext. 33

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
	23071811-045A	8·11·23 1051	HNO3	Groundwater	✔											
	23071811-046A	8/14/23 1543	HNO3	Groundwater	✔											
	23071811-047A	8·11·23 1241	HNO3	Groundwater	✔											
	23071811-048A	8·11·23 1013	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 By	Date/Time	Received By	Date/Time
	8·16·23 1630		8·16·23 9:20
	8-16-23 5:15pm	Simon Wickham	8/16/23 1715

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103
APPENDIX A.

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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 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: Standad TAT | Billing/PO: 34883 | Phone: 618 344-1004 ext. 33

Comments:
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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
	23071811-056A	8/10/23 13:22	HNO3	Groundwater	✔											
	23071811-057A	8/10/23 13:45	HNO3	Groundwater	✔											
	23071811-058A	8/15/23 10:35	HNO3	Groundwater	✔											
	23071811-059A	Dry	HNO3	Groundwater	✔											
	23071811-060A	8·14·23 1332	HNO3	Groundwater	✔											
	23071811-061A	8·9·23 1311	HNO3	Groundwater	✔											
	23071811-062A	Dry	HNO3	Groundwater	✔											
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												

*Relinquished By	Date/Time	Received By	Date/Time
	8·16·23 1630		8·16·23 1620
	8/16/23 1815		8/16/23 1715

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ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103
APPENDIX A.

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 </= 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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.
¤	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

Method Summary

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

Sample Summary

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

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Client Sample ID: 23071811-023A
Date Collected: 08/14/23 14:48
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-23
Matrix: Water

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
Date Collected: 08/14/23 16:06
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-24
Matrix: Water

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

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

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Client Sample ID: 23071811-027A
Date Collected: 08/15/23 11:04
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-27
Matrix: Water

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
Date Collected: 08/09/23 11:13
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-28
Matrix: Water

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

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

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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

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

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

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

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-2
SDG: 23071811-2

Client Sample ID: 23071811-040A
Date Collected: 08/09/23 14:53
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-40
Matrix: Water

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

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		

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

Carrier	LCS %Yield	LCS 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

Carrier	LCSD %Yield	LCSD 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		

Carrier	LCS %Yield	LCS 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

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

Carrier	LCSD %Yield	LCSD 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

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	

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

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

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					

Tracer/Carrier Summary

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

eurofins | Environment Testing

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

Eurofins St. Louis
13715 Rider Trail North
Earth City MO 63045

See page two for job notes and contact information.

myEOL

Eurofins St. Louis

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.

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Authorization

Generated
9/28/2023 8:55:05 AM
Revision 1

Authorized for release by
Jayna Awalt, Project Manager II
Jayna.Awalt@et.eurofinsus.com
(314)298-8566

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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 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	Ra226/228
	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 1152	HNO3	Groundwater	✔
	23071811-008A	8/14/23 1134	HNO3	Groundwater	✔
	23071811-009A	8/14/23 1046	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
	8-16-23 1630		8-16-23 4:20 pm
~~FEDEX~~ SW 8/16/23	8-16-23 5:15 pm	~~FEDEX~~ SW 8/16/23	
		Sima Wasfi	8/16/23 1716

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103
APPENDIX A.

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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 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.
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Project# 23071811

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT | Billing/PO: 34883 | Phone: 618 344-1004 ext. 33

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228
	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	DRY	HNO3	Groundwater	✔
	23071811-019A	8/14/23 1120	HNO3	Groundwater	✔
	23071811-020A	8/14/23 1235	HNO3	Groundwater	✔
	23071811-021A	DRY	HNO3	Groundwater	✔
	23071811-022A	DRY	HNO3	Groundwater	✔

*Relinquished By	Date/Time	Received By	Date/Time
	8:16:23 1630		8-16-23 4:20
	8-16-23 8:15PM	Sena Weyhn	8/16/23 1715

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COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103
APPENDIX A.

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**
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Project# 23071811

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT | Billing/PO: 34883 | Phone: 618 344-1004 ext. 33

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
	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	✔											

*Relinquished By	Date/Time	Received By	Date/Time
	8-16-23 1630		8-16-23 9:20
	8-16-23 5:05PM	Sina Wayne	8/16/23 1715

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103
APPENDIX A.

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SubCocRevA 3/2/2016

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**
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Project# 23071811

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT | Billing/PO: 34883 | Phone: 618 344-1004 ext. 33

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
	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	✔											

*Relinquished By	Date/Time	Received By	Date/Time
	8-16-23 1635		8-16-23 4:20
	8-16-23 5:15pm	Sina Wayne	8/16/23 1715

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103
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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 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.
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Project# 23071811

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT | Billing/PO: 34883 | Phone: 618 344-1004 ext. 33

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Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
	23071811-045A	8·11·23 1051	HNO3	Groundwater	✔											
	23071811-046A	8/14/23 1543	HNO3	Groundwater	✔											
	23071811-047A	8·11·23 1241	HNO3	Groundwater	✔											
	23071811-048A	8·11·23 1013	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 By	Date/Time	Received By	Date/Time
	8·16·23 1630		8·16·23 9:20
	8-16-23 5:15pm	Simon Wickham	8/16/23 1715

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103
APPENDIX A.

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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 62234

Cooler Temp: | Sampler: J. Riley/B. Gillihan/J. Colp | QC Level: 3

Project# 23071811

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.

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	Ra226/228											
	23071811-056A	8/10/23 13:22	HNO3	Groundwater	✔											
	23071811-057A	8/10/23 13:45	HNO3	Groundwater	✔											
	23071811-058A	8/15/23 10:35	HNO3	Groundwater	✔											
	23071811-059A	Dry	HNO3	Groundwater	✔											
	23071811-060A	8·14·23 1332	HNO3	Groundwater	✔											
	23071811-061A	8·9·23 1311	HNO3	Groundwater	✔											
	23071811-062A	Dry	HNO3	Groundwater	✔											
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												

*Relinquished By	Date/Time	Received By	Date/Time
	8·16·23 1630		8·16·23 1620
	8/16/23 1815		8/16/23 1715

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA 3/X/2116

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
COFFEEN POWER PLANT, GMF GYPSUM STACK POND
COF-257-103
APPENDIX A.

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 </= 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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.
¤	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

Method Summary

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

Sample Summary

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 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

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-043A
Date Collected: 08/11/23 11:22
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-43
Matrix: Water

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
Date Collected: 08/11/23 12:09
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-44
Matrix: Water

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

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-045A
Date Collected: 08/11/23 10:51
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-45
Matrix: Water

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
Date Collected: 08/14/23 15:43
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-46
Matrix: Water

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

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Client Sample ID: 23071811-047A
Date Collected: 08/11/23 12:41
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-47
Matrix: Water

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
Date Collected: 08/11/23 10:13
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-48
Matrix: Water

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

Client Sample Results

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

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-051A
Date Collected: 08/10/23 15:24
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-51
Matrix: Water

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
Date Collected: 08/15/23 13:12
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-53
Matrix: Water

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

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-055A
Date Collected: 08/15/23 12:53
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-55
Matrix: Water

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
Date Collected: 08/10/23 13:22
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-56
Matrix: Water

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

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51097-3
SDG: 23071811-3

Client Sample ID: 23071811-057A
Date Collected: 08/10/23 13:45
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-57
Matrix: Water

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
Date Collected: 08/15/23 10:35
Date Received: 08/16/23 17:15

Lab Sample ID: 160-51097-58
Matrix: Water

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

Client Sample Results

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

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*

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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

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**

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits) Ba (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**

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits) Ba (30-110)	Y (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

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Site Sampling Event	Coffeen 3Q		Summary of Well Information															
LIMS Workorder	23071810																	
Technician	JC,JR		hmm	hhmm														
WO Sample	Well ID	Date	Time	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	

Site Sampling Event	Coffeen 3Q		Summary of Well Information															
LIMS Workorder	23071810																	
Technician	JC,JR		hmm	hhmm														
WO Sample	Well ID	Date	Time	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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810
Technician	JC,JR

Summary of Stabilized Field Parameters

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

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810
Technician	JC,JR

Summary of Stabilized Field Parameters

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

Summary of Stabilized Field Parameters

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

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-001A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	Coffeen 3Q
LIMS Workorder	23071810-002A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-003A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-004A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-005A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-006A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-007A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-008A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-009A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-010A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-011A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-012A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-013A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-014A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	Coffeen 3Q
LIMS Workorder	23071810-015A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	Coffeen 3Q
LIMS Workorder	23071810-016A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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
LIMS Workorder	23071810-017A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-018A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-019A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-020A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-021A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-022A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-023A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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
LIMS Workorder	23071810-024A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-025A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-026A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-027A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-028A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-029A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-030A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-031A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	Coffeen 3Q
LIMS Workorder	23071810-032A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-033A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-034A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-035A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-036A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-037A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-038A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-039A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-040A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-041A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-042A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-043A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-044A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-045A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-046A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-047A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-048A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-049A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	Coffeen 3Q
LIMS Workorder	23071810-050A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	Coffeen 3Q
LIMS Workorder	23071810-051A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-052A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-053A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-054A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-055A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
G286														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-056A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
G287														

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q
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)
G288														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-058A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-059A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-060A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-061A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-062A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-063A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
G307														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-064A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-065A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
G309														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-067A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-068A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-069A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-070A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-071A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-072A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-073A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
G317														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-075A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-076A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-077A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	Coffeen 3Q
LIMS Workorder	23071810-078A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-079A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-080A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-081A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-082A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-083A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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
LIMS Workorder	23071810-084A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-085A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-086A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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														

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-087A
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)
MW03D														

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q
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														

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q
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
LIMS Workorder	23071810-090A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-091A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-092A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-093A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
MW20S														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-094A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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)
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	Coffeen 3Q
LIMS Workorder	23071810-095A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-096A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-097A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-098A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-099A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-100A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-101A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-102A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-103A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-104A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-105A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Groundwater Sampling Field Form - Groundwater Quality Parameters

Site Sampling Event	Coffeen 3Q
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
LIMS Workorder	23071810-107A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-108A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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
LIMS Workorder	23071810-109A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-110A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-111A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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

Groundwater Sampling Field Form - Groundwater Quality Parameters

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														

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-113A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

Site Sampling Event	Coffeen 3Q
LIMS Workorder	23071810-114A
Technician	JC,JR

Groundwater Sampling Field Form - Groundwater Quality Parameters

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	

COFFEEN Power PLANT

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results Reading 1	pH Results Reading 2	pH Results CCV	Conductivity Range Factor	Conductivity Reading 1	Conductivity Reading 2	Other: DF	Other: Read1/units	Other: DF	Other: Read2/units
LCS	8/9/23	0940		7.10				1474					
CCV	↓	1007		6.99				1398					
LCS	8/10/23	0921		7.01				1413					
CCV	↓	1557		6.94				1506					
LCS	8/14/23	0937		7.07				1470					
CCV	↓	1441		6.98				1421					
CCV													

****** 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	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		Conductivity LCS/LCSD		LCS/LCSD	

8/9 5/10

pH Calibration		Reading		Conductivity Calibration			Reading	units
	4.00	4.06	3.99	~~4.7K~~	µS	0-199.9		µS
Date:	7.00	7.10	7.01	1474	µS 14/3	0-1999		µS
Time:	10.00	10.05	10.02		mS	0-19.99		mS
Field Analyst Sig & Date:		8/16/23		Field Analyst Sig & Date:				
Reviewed By & Date:				Reviewed By & Date:				
Reviewed By & Date:		8/11		Reviewed By & Date:				

_____ Calibration	Reading
Std_____ Units _____	
Std_____ Units _____	
Std_____ Units _____	
Field Analyst Sig & Date:	
Reviewed By & Date:	
Reviewed By & Date:	

4.1
~~10.0~~ 4.07 1470
10.08

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	~~22.1~~ 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 (_____) : _____

	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	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	Reading
Date: 8-9-23	4.01
	7.00
Time: 0921	10.00

Field Analyst Sig & Date: [signature] 8-9-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration			Reading	units
_____	µS	0-199.9	_____	µS
_____	µS	0-1999	1413	µS
_____	mS	0-19.99	_____	mS

Field Analyst Sig & Date: [signature] 8-9-23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration		Reading
Std_____	Units _____	_____
Std_____	Units _____	_____
Std_____	Units _____	_____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Page _____ of_____

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	8-10-23	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 (_____) : _____

	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	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 _____		Conductivity LCS/LCSD _____		_____ LCS/LCSD _____	

pH Calibration		Reading
	4.00	4.00
Date: 8-10-23	7.00	7.01
Time: 0753	10.00	9.99

Field Analyst Sig & Date: [signature] 8-10-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration			Reading	units
_____	µS	0-199.9		µS
_____	µS	0-1999	1414	µS
_____	mS	0-19.99		mS

Field Analyst Sig & Date: [signature] 8-10-23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration		Reading
Std _____	Units _____	
Std _____	Units _____	
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 Reading 1	pH Results Reading 2	pH Results LCSD	Conductivity Range Factor	Conductivity Reading 1	Conductivity Reading 2	Other: DF	Other: Read1/units	Other: DF	Other: 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. _____		_____ 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: 8-14-23
Time: 1026

	Reading
	4.02
	7.01
	10.01

Field Analyst Sig & Date: [signature] 8-14-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration

			Reading	units
_____	µS	0-199.9		µS
_____	µS	0-1999	1413	µS
_____	mS	0-19.99		mS

Field Analyst Sig & Date: [signature] 8-14-23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration	Reading
Std_____ Units _____	_____
Std_____ Units _____	_____
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	8-14-23	10:18	24.03	7.03	7.04			1413					
CCV	8-14-23	1628	24.08	7:05	7:04			1418					

**** Field Meter ID for Temp, pH & Conductivity : _____

	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:			pH LCS/LCSD 7	

**** Field Meter ID for (_____) : _____

	Lot #		Lot #
Conductivity Std.		Std.	
Conductivity Std.		Std.	
Conductivity Std.		Std.	
Conductivity LCS/LCSD		LCS/LCSD	

pH Calibration

Date: 8-14-23
Time: 10:03

	Reading
4.01	4.01
7.03	7.03
10.01	10.01

Field Analyst Sig & Date: Brett Gillen 8-14-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration

			Reading	units
_____	µS	0-199.9		µS
_____	µS	0-1999	1413	µS
_____	mS	0-19.99		mS

Field Analyst Sig & Date: Brett Gillen 8-14-23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration	Reading
Std_____ Units _____	_____
Std_____ Units _____	_____
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 Reading 1	pH Results Reading 2	pH Results LCSD	Conductivity Range Factor	Conductivity Reading 1	Conductivity Reading 2	Other: DF	Other: Read1/units	Other: DF	Other: 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 #		Lot #		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	Reading
	4.00
	7.01
	9.99

Date: 8-15-23
Time: 0842

Field Analyst Sig & Date: [signature] 8-15-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration		Reading	units
_____	µS 0-199.9		µS
_____	µS 0-1999	1413	µS
_____	mS 0-19.99		mS

Field Analyst Sig & Date: [signature] 8-15-23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration	Reading
Std_____ Units _____	
Std_____ Units _____	
Std_____ Units _____	

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Page _____ of _____

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	9-19-23	9:19	20.5	7.02	7.02			1412					
CCV	9-19-23	11:16	20.5	7.03	7.02			1421					

**** Field Meter ID for Temp, pH & Conductivity: Pine

**** Field Meter ID for (Pine): 049551

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WC230720G	Conductivity Std. 1412	74610	____ Std. ____	
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC2306168	Conductivity Std. ____		____ Std. ____	
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC2305016	Conductivity Std. ____		____ Std. ____	
Other: ____			pH LCS/LCSD 7	WC230502B	Conductivity LCS/LCSD ____		____ LCS/LCSD ____	

pH Calibration		Reading
Date: 9-19-23	4.00	4.02
Time: 9:20	7.00	7.02
	10.00	10.00

Field Analyst Sig & Date: Brett Fuller 9-19-23
Reviewed By & Date: ____
Reviewed By & Date: ____

Conductivity Calibration			Reading	units
____	µS	0-199.9	____	µS
1412	µS	0-1999	1413	µS
____	mS	0-19.99	____	mS

Field Analyst Sig & Date: Brett Fuller 9-19-23
Reviewed By & Date: ____
Reviewed By & Date: ____

____ Calibration		Reading
Std ____	Units ____	____
Std ____	Units ____	____
Std ____	Units ____	____

Field Analyst Sig & Date: ____
Reviewed By & Date: ____
Reviewed By & Date: ____

Comments:

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

			Weather				Well Condition				
WO Sample	Well ID	Program/ Sample Type	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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

			Weather				Well Condition				
WO Sample	Well ID	Program/ Sample Type	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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

			Weather				Well Condition				
WO Sample	Well ID	Program/ Sample Type	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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

			Weather				Well Condition				
WO Sample	**Well ID**	**Program/ Sample Type**	**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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

		GW Level Measurement				Purge Activities							
WO Sample	Well ID	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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

		GW Level Measurement				Purge Activities							
WO Sample	Well ID	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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

		GW Level Measurement				Purge Activities							
WO Sample	Well ID	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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

		GW Level Measurement				Purge Activities							
WO Sample	**Well ID**	**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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

		Sampling Activities and Observations									
WO Sample	**Well ID**	**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	lt 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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

		Sampling Activities and Observations									
WO Sample	**Well ID**	**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 Samping Event: Coffeen 4Q 2023
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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)
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	lt 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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

		Sampling Activities and Observations									
WO Sample	**Well ID**	**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 Samping 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 Samping 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 perastalltic
063	G307D	
064	G308	
065	G309	
066	G310	
067	G312	Dry- no sample
068	G313	
069	G314	
070	G314D	

Site Samping 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 Samping Event: Coffeen 4Q 2023
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Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
Coffeen- 4Q 2023

WO Sample	Well ID	COMMENTS
106	G301 Duplicate	
107	R201 Duplicate	

Site Samping 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 Samping 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
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 Samping 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
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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G124	Dry- No Sample									

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G125	Dry- No sample									

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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	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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G275	Dry- No Sample									

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G275D	Dry- No Sample									

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G277	Dry- No Sample									

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G284	Dry- No Sample									

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G286	11/13/2023	12:46								

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G288	11/13/2023	12:49	9.84							

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G309	11/13/2023	10:51	8.32							

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G312	Dry- No Sample									

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G317	11/13/2023	12:55								

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G1003	11/13/2023	10:20								

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
MW03D	11/13/2023	9:57	32.01							

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
MW12D	11/13/2023	10:41	15.64							

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
MW20S	11/13/2023	9:54	11.96							

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
NW Riser	Unable to collect elevation (no tra									

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
SG-02	11/13/2023	14:03	7.36							

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
SG-03	11/13/2023	13:53	9.71							

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
SG-04	11/13/2023	14:21	6.32							

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XSG-01	11/13/2023	13:16	10.38							

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
Field Blank	11/21/2023	10:36								

Site Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

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 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 Samping Event: Coffeen 4Q 2023
LIMS Workorder: 23110002
Technician(s): DC, JC, TC, BG

Groundwater Sampling Field Form- Groundwater Quality Parameters
Coffeen- 4Q 2023

Well ID	Date	Time	DTW	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/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 Samping 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 µS Std.	87241	1415	11/14/23 8:30

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	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 µS Std.	87241	1413	11/15/23 8:28

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	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 µS Std.	87241	1429	11/16/23 9:38

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/16/23 9:43	17.6	7.03	1432	
CCV	11/16/23 14:49	19.4	7.03	1444	

Site Samping 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 µS Std.	87241	1417	11/17/23 8:03

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	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 µS Std.	87241	1414	11/20/23 8:01

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	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 µS Std.	87241	1421	11/21/23 8:19

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/21/23 8:24	15.3	7.03	1443	
CCV	11/21/23 10:37	17.8	7.03	1455	

Site Samping 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

pH Standards	LIMS ID	Calibration reading	Date/Time
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 µS Std.	87241	1412	11/16/23 12:32

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	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

pH Standards	LIMS ID	Calibration reading	Date/Time
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 µS Std.	87241	1412	11/17/23 8:44

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	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

pH Standards	LIMS ID	Calibration reading	Date/Time
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 µS Std.	87241	1412	11/20/23 9:17

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	11/20/23 9:18	12.2	7.06	1413	
CCV	11/20/23 15:31	17.1	6.96	1458	

Site Samping 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 µS Std.	87241	1413	11/21/23 8:30

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	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 µS Std.			

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS					
CCV					

Field Meter ID:
Technician:

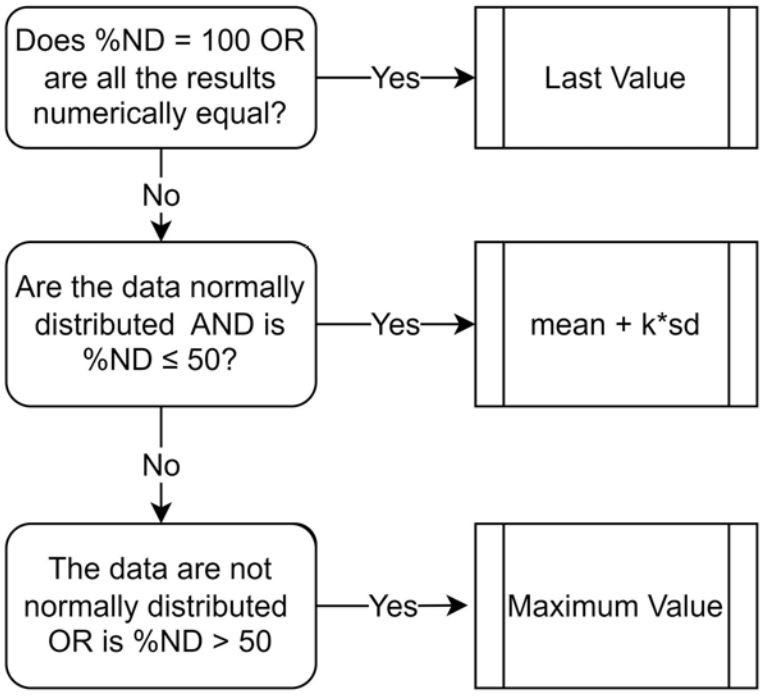
pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer			
7.0 Buffer			
10.0 Buffer			
LCS (7.0 Buffer)			

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.			

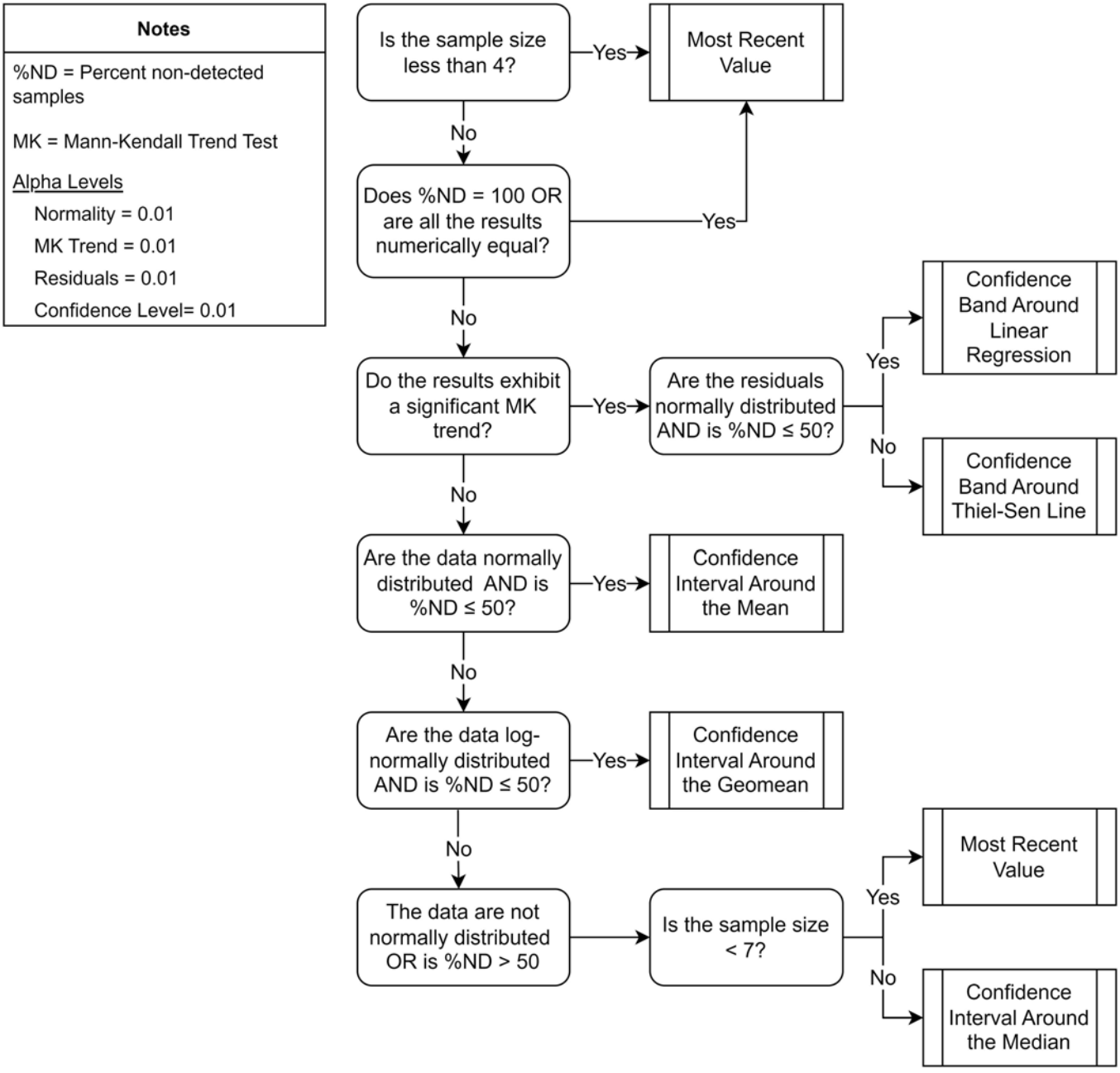
Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS					
CCV					

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 METHODOLGY FOR DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS


Notes
%ND = Percent non-detected samples
MK = Mann-Kendall Trend Test
Alpha Levels
Normality = 0.01
MK Trend = 0.01
Residuals = 0.01
Confidence Level= 0.01
Is the sample size less than 4?
Yes
Most Recent Value
No
Does %ND = 100 OR are all the results numerically equal?
Yes
No
Do the results exhibit a significant MK trend?
Yes
Are the residuals normally distributed AND is %ND ≤ 50?
Yes
Confidence Band Around Linear Regression
No
Confidence Band Around Thiel-Sen Line
No
Are the data normally distributed AND is %ND ≤ 50?
Yes
Confidence Interval Around the Mean
No
Are the data log-normally distributed AND is %ND ≤ 50?
Yes
Confidence Interval Around the Geomean
No
The data are not normally distributed OR is %ND > 50
Is the sample size < 7?
Yes
Most Recent Value
No
Confidence Interval Around the Median