



Illinois Power Generating Company
1500 Eastport Plaza Drive
Collinsville, IL 62234

February 17, 2025

Illinois Environmental Protection Agency
DWPC – Permits MC#15
Attn: Part 845 Coal Combustion Residual Rule Submittal
1021 North Grand Avenue East
Springfield, IL 62794

Re: Coffeen Power Plant Ash Pond No. 1; IEPA ID # W1350150004-01

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(b)(3)(D), Illinois Power Generating Company is submitting groundwater monitoring data for the Quarter 4, 2024 sampling event at the Coffeen Power Plant Ash Pond No. 1 (AP1), identified by Illinois Environmental Protection Agency (IEPA) ID No. W1350150004-01. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were evaluated for compliance with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances¹ of the GWPSs.

The date of this submittal is considered to be the date that exceedances of the GWPSs were detected. This notification of exceedances of the GWPSs in 35 I.A.C. § 845.600 will be placed in the facility's operating record within 30 days as required by 35 I.A.C. § 845.800(d)(16).

A Corrective Measures Assessment (CMA) for AP1 was initiated on January 14, 2024, completed, and submitted to IEPA on June 12, 2024 in accordance with 35 I.A.C. § 845.660. The CMA was the first step towards developing a Corrective Action Plan, which will ultimately select a remedy to address all releases from AP1. The selected remedy will meet the performance standards of 35 I.A.C. § 845.670(d) and the Corrective Action Plan will be submitted to the Agency on or before June 12, 2025. Once implemented and completed, the selected remedy will attain the GWPSs.

Sincerely,

A handwritten signature in blue ink that reads "Dianna Tickner".

Dianna Tickner, PE, PMP
Senior Director, Demolition and Decommission

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 4, 2024, Ash Pond No. 1, Coffeen Power Plant, Coffeen, Illinois

¹ Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program, which was submitted to the IEPA on October 25, 2021 as part of Illinois Power Generating Company's operating permit application for Coffeen Power Plant Ash Pond No. 1. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and therefore Illinois Power Generating Company has not identified any actual exceedances.

35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES¹
QUARTER 4, 2024
ASH POND NO. 1, COFFEEN POWER PLANT, COFFEEN, ILLINOIS

February 17, 2025

Samples were collected between October 30 and November 7, 2024 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on December 19, 2024.

The monitoring well locations are included in **Figure 1**. **Attachment A** summarizes the groundwater elevation data for the Quarter 4, 2024 sampling event. Groundwater elevation data was not collected for monitoring well G312 because the water level was below the top of the dedicated submersible pump.

Table 1 is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 4, 2024 sampling event.

In accordance with 35 I.A.C. § 845.610(b)(3)(C) and the statistical analysis plan submitted with the operating permit application (Appendix A of the Groundwater Monitoring Plan², constituent concentrations observed at compliance monitoring wells in Quarter 4, 2024 were evaluated for compliance with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS (**Table 2**). **Attachment C** shows the results of the comparison to background levels.

The date of this submittal is considered to be the date that the exceedances were detected.

TABLES

Table 1	Field Parameters and Analytical Results - Quarter 4, 2024
Table 2	Evaluation of Compliance - Quarter 4, 2024

FIGURES

Figure 1	Monitoring Well Location Map

ATTACHMENTS

Attachment A	Groundwater Elevation Data - Quarter 4, 2024
Attachment B	Laboratory Reports and Field Data Sheets - Quarter 4, 2024
Attachment C	Comparison to Background - Quarter 4, 2024

¹ Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program, which was submitted to the IEPA on October 25, 2021 as part of Illinois Power Generating Company's operating permit application for Coffeen Power Plant Ash Pond No. 1. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and therefore Illinois Power Generating Company has not identified any actual exceedances.

² Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan. Ash Pond No. 1. Coffeen Power Plant. Coffeen, Illinois. October 25, 2021.*

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G281	Background	E007	10/30/2024	Antimony, total	0.0004 U	mg/L
G281	Background	E007	10/30/2024	Arsenic, total	0.0005 J	mg/L
G281	Background	E007	10/30/2024	Barium, total	0.0687	mg/L
G281	Background	E007	10/30/2024	Beryllium, total	0.0002 U	mg/L
G281	Background	E007	10/30/2024	Boron, total	0.0092 U	mg/L
G281	Background	E007	10/30/2024	Cadmium, total	0.0002 U	mg/L
G281	Background	E007	10/30/2024	Calcium, total	142	mg/L
G281	Background	E007	10/30/2024	Chloride, total	55.9	mg/L
G281	Background	E007	10/30/2024	Chromium, total	0.0007 U	mg/L
G281	Background	E007	10/30/2024	Cobalt, total	0.0006 J	mg/L
G281	Background	E007	10/30/2024	Dissolved Oxygen	1.07	mg/L
G281	Background	E007	10/30/2024	Fluoride, total	0.2 U	mg/L
G281	Background	E007	10/30/2024	Lead, total	0.0006 U	mg/L
G281	Background	E007	10/30/2024	Lithium, total	0.00490	mg/L
G281	Background	E007	10/30/2024	Mercury, total	0.00006 U	mg/L
G281	Background	E007	10/30/2024	Molybdenum, total	0.0011 J	mg/L
G281	Background	E007	10/30/2024	Oxidation Reduction Potential	-14.0	mV
G281	Background	E007	10/30/2024	pH (field)	7.0	SU
G281	Background	E007	10/30/2024	Radium 226 + Radium 228, total	0.219	pCi/L
G281	Background	E007	10/30/2024	Selenium, total	0.0006 U	mg/L
G281	Background	E007	10/30/2024	Specific Conductance @ 25C (field)	1,310	micromhos/cm
G281	Background	E007	10/30/2024	Sulfate, total	317	mg/L
G281	Background	E007	10/30/2024	Temperature	17.9	degrees C
G281	Background	E007	10/30/2024	Thallium, total	0.001 U	mg/L
G281	Background	E007	10/30/2024	Total Dissolved Solids	966	mg/L
G281	Background	E007	10/30/2024	Turbidity, field	58.0	NTU
G306	Background	E007	11/04/2024	Antimony, total	0.0004 U	mg/L
G306	Background	E007	11/04/2024	Arsenic, total	0.0004 U	mg/L
G306	Background	E007	11/04/2024	Barium, total	0.0377	mg/L
G306	Background	E007	11/04/2024	Beryllium, total	0.0002 U	mg/L
G306	Background	E007	11/04/2024	Boron, total	2.07	mg/L
G306	Background	E007	11/04/2024	Cadmium, total	0.0002 U	mg/L
G306	Background	E007	11/04/2024	Calcium, total	85.0	mg/L
G306	Background	E007	11/04/2024	Chloride, total	2 J	mg/L
G306	Background	E007	11/04/2024	Chromium, total	0.00150 J	mg/L
G306	Background	E007	11/04/2024	Cobalt, total	0.0004 J	mg/L
G306	Background	E007	11/04/2024	Dissolved Oxygen	0.700	mg/L
G306	Background	E007	11/04/2024	Fluoride, total	0.2 U	mg/L
G306	Background	E007	11/04/2024	Lead, total	0.0006 U	mg/L
G306	Background	E007	11/04/2024	Lithium, total	0.00440	mg/L
G306	Background	E007	11/04/2024	Mercury, total	0.00006 U	mg/L
G306	Background	E007	11/04/2024	Molybdenum, total	0.0006 U	mg/L
G306	Background	E007	11/04/2024	Oxidation Reduction Potential	84.0	mV
G306	Background	E007	11/04/2024	pH (field)	6.2	SU
G306	Background	E007	11/04/2024	Radium 226 + Radium 228, total	0.582	pCi/L
G306	Background	E007	11/04/2024	Selenium, total	0.0006 U	mg/L

TABLE 1.
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845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G306	Background	E007	11/04/2024	Specific Conductance @ 25C (field)	724	micromhos/cm
G306	Background	E007	11/04/2024	Sulfate, total	122	mg/L
G306	Background	E007	11/04/2024	Temperature	15.9	degrees C
G306	Background	E007	11/04/2024	Thallium, total	0.001 U	mg/L
G306	Background	E007	11/04/2024	Total Dissolved Solids	598	mg/L
G306	Background	E007	11/04/2024	Turbidity, field	50.0	NTU
G301	Compliance	E007	11/07/2024	Antimony, total	0.0005 J	mg/L
G301	Compliance	E007	11/07/2024	Arsenic, total	0.0004 U	mg/L
G301	Compliance	E007	11/07/2024	Barium, total	0.0140	mg/L
G301	Compliance	E007	11/07/2024	Beryllium, total	0.0002 U	mg/L
G301	Compliance	E007	11/07/2024	Boron, total	2.13	mg/L
G301	Compliance	E007	11/07/2024	Cadmium, total	0.0002 U	mg/L
G301	Compliance	E007	11/07/2024	Calcium, total	107	mg/L
G301	Compliance	E007	11/07/2024	Chloride, total	10.8	mg/L
G301	Compliance	E007	11/07/2024	Chromium, total	0.0007 U	mg/L
G301	Compliance	E007	11/07/2024	Cobalt, total	0.00140	mg/L
G301	Compliance	E007	11/07/2024	Dissolved Oxygen	2.99	mg/L
G301	Compliance	E007	11/07/2024	Fluoride, total	0.2 U	mg/L
G301	Compliance	E007	11/07/2024	Lead, total	0.0006 U	mg/L
G301	Compliance	E007	11/07/2024	Lithium, total	0.00490	mg/L
G301	Compliance	E007	11/07/2024	Mercury, total	0.00006 U	mg/L
G301	Compliance	E007	11/07/2024	Molybdenum, total	0.0007 J	mg/L
G301	Compliance	E007	11/07/2024	Oxidation Reduction Potential	148	mV
G301	Compliance	E007	11/07/2024	pH (field)	6.6	SU
G301	Compliance	E007	11/07/2024	Radium 226 + Radium 228, total	0.0249	pCi/L
G301	Compliance	E007	11/07/2024	Selenium, total	0.0006 U	mg/L
G301	Compliance	E007	11/07/2024	Specific Conductance @ 25C (field)	972	micromhos/cm
G301	Compliance	E007	11/07/2024	Sulfate, total	460	mg/L
G301	Compliance	E007	11/07/2024	Temperature	16.7	degrees C
G301	Compliance	E007	11/07/2024	Thallium, total	0.001 U	mg/L
G301	Compliance	E007	11/07/2024	Total Dissolved Solids	872	mg/L
G301	Compliance	E007	11/07/2024	Turbidity, field	2.40	NTU
G302	Compliance	E007	11/06/2024	Antimony, total	0.0004 U	mg/L
G302	Compliance	E007	11/06/2024	Arsenic, total	0.0009 J	mg/L
G302	Compliance	E007	11/06/2024	Barium, total	0.0340	mg/L
G302	Compliance	E007	11/06/2024	Beryllium, total	0.0002 U	mg/L
G302	Compliance	E007	11/06/2024	Boron, total	2.56	mg/L
G302	Compliance	E007	11/06/2024	Cadmium, total	0.0002 U	mg/L
G302	Compliance	E007	11/06/2024	Calcium, total	188	mg/L
G302	Compliance	E007	11/06/2024	Chloride, total	14.7	mg/L
G302	Compliance	E007	11/06/2024	Chromium, total	0.0007 U	mg/L
G302	Compliance	E007	11/06/2024	Cobalt, total	0.00160	mg/L
G302	Compliance	E007	11/06/2024	Dissolved Oxygen	1.69	mg/L
G302	Compliance	E007	11/06/2024	Fluoride, total	0.2 U	mg/L
G302	Compliance	E007	11/06/2024	Lead, total	0.0006 U	mg/L
G302	Compliance	E007	11/06/2024	Lithium, total	0.0143	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G302	Compliance	E007	11/06/2024	Mercury, total	0.00006 U	mg/L
G302	Compliance	E007	11/06/2024	Molybdenum, total	0.0009 J	mg/L
G302	Compliance	E007	11/06/2024	Oxidation Reduction Potential	-40.0	mV
G302	Compliance	E007	11/06/2024	pH (field)	6.6	SU
G302	Compliance	E007	11/06/2024	Radium 226 + Radium 228, total	0.273	pCi/L
G302	Compliance	E007	11/06/2024	Selenium, total	0.0008 J	mg/L
G302	Compliance	E007	11/06/2024	Specific Conductance @ 25C (field)	1,270	micromhos/cm
G302	Compliance	E007	11/06/2024	Sulfate, total	523	mg/L
G302	Compliance	E007	11/06/2024	Temperature	16.5	degrees C
G302	Compliance	E007	11/06/2024	Thallium, total	0.001 U	mg/L
G302	Compliance	E007	11/06/2024	Total Dissolved Solids	1,100	mg/L
G302	Compliance	E007	11/06/2024	Turbidity, field	20.0	NTU
G303	Compliance	E007	11/06/2024	Antimony, total	0.0004 U	mg/L
G303	Compliance	E007	11/06/2024	Arsenic, total	0.00240	mg/L
G303	Compliance	E007	11/06/2024	Barium, total	0.0210	mg/L
G303	Compliance	E007	11/06/2024	Beryllium, total	0.0002 U	mg/L
G303	Compliance	E007	11/06/2024	Boron, total	2.50	mg/L
G303	Compliance	E007	11/06/2024	Cadmium, total	0.0002 U	mg/L
G303	Compliance	E007	11/06/2024	Calcium, total	174	mg/L
G303	Compliance	E007	11/06/2024	Chloride, total	25.4	mg/L
G303	Compliance	E007	11/06/2024	Chromium, total	0.00180	mg/L
G303	Compliance	E007	11/06/2024	Cobalt, total	0.00200	mg/L
G303	Compliance	E007	11/06/2024	Dissolved Oxygen	2.86	mg/L
G303	Compliance	E007	11/06/2024	Fluoride, total	0.2 U	mg/L
G303	Compliance	E007	11/06/2024	Lead, total	0.0008 J	mg/L
G303	Compliance	E007	11/06/2024	Lithium, total	0.0332	mg/L
G303	Compliance	E007	11/06/2024	Mercury, total	0.00006 U	mg/L
G303	Compliance	E007	11/06/2024	Molybdenum, total	0.00180	mg/L
G303	Compliance	E007	11/06/2024	Oxidation Reduction Potential	-92.0	mV
G303	Compliance	E007	11/06/2024	pH (field)	6.7	SU
G303	Compliance	E007	11/06/2024	Radium 226 + Radium 228, total	0.448	pCi/L
G303	Compliance	E007	11/06/2024	Selenium, total	0.0006 U	mg/L
G303	Compliance	E007	11/06/2024	Specific Conductance @ 25C (field)	1,610	micromhos/cm
G303	Compliance	E007	11/06/2024	Sulfate, total	688	mg/L
G303	Compliance	E007	11/06/2024	Temperature	16.1	degrees C
G303	Compliance	E007	11/06/2024	Thallium, total	0.001 U	mg/L
G303	Compliance	E007	11/06/2024	Total Dissolved Solids	1,690	mg/L
G303	Compliance	E007	11/06/2024	Turbidity, field	14.0	NTU
G305	Compliance	E007	11/06/2024	Antimony, total	0.0004 U	mg/L
G305	Compliance	E007	11/06/2024	Arsenic, total	0.0005 J	mg/L
G305	Compliance	E007	11/06/2024	Barium, total	0.0266	mg/L
G305	Compliance	E007	11/06/2024	Beryllium, total	0.0002 U	mg/L
G305	Compliance	E007	11/06/2024	Boron, total	2.62	mg/L
G305	Compliance	E007	11/06/2024	Cadmium, total	0.0002 U	mg/L
G305	Compliance	E007	11/06/2024	Calcium, total	177	mg/L
G305	Compliance	E007	11/06/2024	Chloride, total	14.4	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G305	Compliance	E007	11/06/2024	Chromium, total	0.0007 U	mg/L
G305	Compliance	E007	11/06/2024	Cobalt, total	0.0003 J	mg/L
G305	Compliance	E007	11/06/2024	Dissolved Oxygen	1.13	mg/L
G305	Compliance	E007	11/06/2024	Fluoride, total	0.39 J	mg/L
G305	Compliance	E007	11/06/2024	Lead, total	0.0006 U	mg/L
G305	Compliance	E007	11/06/2024	Lithium, total	0.00670	mg/L
G305	Compliance	E007	11/06/2024	Mercury, total	0.00006 U	mg/L
G305	Compliance	E007	11/06/2024	Molybdenum, total	0.001 J	mg/L
G305	Compliance	E007	11/06/2024	Oxidation Reduction Potential	-31.0	mV
G305	Compliance	E007	11/06/2024	pH (field)	7.1	SU
G305	Compliance	E007	11/06/2024	Radium 226 + Radium 228, total	0.0398	pCi/L
G305	Compliance	E007	11/06/2024	Selenium, total	0.0006 U	mg/L
G305	Compliance	E007	11/06/2024	Specific Conductance @ 25C (field)	1,330	micromhos/cm
G305	Compliance	E007	11/06/2024	Sulfate, total	819	mg/L
G305	Compliance	E007	11/06/2024	Temperature	16.2	degrees C
G305	Compliance	E007	11/06/2024	Thallium, total	0.001 U	mg/L
G305	Compliance	E007	11/06/2024	Total Dissolved Solids	1,470	mg/L
G305	Compliance	E007	11/06/2024	Turbidity, field	1.20	NTU
G307	Compliance	E007	11/04/2024	Antimony, total	0.0004 U	mg/L
G307	Compliance	E007	11/04/2024	Arsenic, total	0.00740	mg/L
G307	Compliance	E007	11/04/2024	Barium, total	0.264	mg/L
G307	Compliance	E007	11/04/2024	Beryllium, total	0.00140	mg/L
G307	Compliance	E007	11/04/2024	Boron, total	2.10	mg/L
G307	Compliance	E007	11/04/2024	Cadmium, total	0.0003 J	mg/L
G307	Compliance	E007	11/04/2024	Calcium, total	179	mg/L
G307	Compliance	E007	11/04/2024	Chloride, total	9.48	mg/L
G307	Compliance	E007	11/04/2024	Chromium, total	0.0251	mg/L
G307	Compliance	E007	11/04/2024	Cobalt, total	0.00930	mg/L
G307	Compliance	E007	11/04/2024	Dissolved Oxygen	1.19	mg/L
G307	Compliance	E007	11/04/2024	Fluoride, total	0.26 J	mg/L
G307	Compliance	E007	11/04/2024	Lead, total	0.0151	mg/L
G307	Compliance	E007	11/04/2024	Lithium, total	0.0159	mg/L
G307	Compliance	E007	11/04/2024	Mercury, total	0.0135	mg/L
G307	Compliance	E007	11/04/2024	Molybdenum, total	0.00230	mg/L
G307	Compliance	E007	11/04/2024	Oxidation Reduction Potential	-120	mV
G307	Compliance	E007	11/04/2024	pH (field)	6.8	SU
G307	Compliance	E007	11/04/2024	Radium 226 + Radium 228, total	1.18	pCi/L
G307	Compliance	E007	11/04/2024	Selenium, total	0.0006 U	mg/L
G307	Compliance	E007	11/04/2024	Specific Conductance @ 25C (field)	1,070	micromhos/cm
G307	Compliance	E007	11/04/2024	Sulfate, total	432	mg/L
G307	Compliance	E007	11/04/2024	Temperature	17.5	degrees C
G307	Compliance	E007	11/04/2024	Thallium, total	0.001 U	mg/L
G307	Compliance	E007	11/04/2024	Total Dissolved Solids	930	mg/L
G307	Compliance	E007	11/04/2024	Turbidity, field	7.80	NTU
G307D	Compliance	E007	11/04/2024	Antimony, total	0.0004 U	mg/L
G307D	Compliance	E007	11/04/2024	Arsenic, total	0.00220	mg/L

TABLE 1.
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COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G307D	Compliance	E007	11/04/2024	Barium, total	0.0248	mg/L
G307D	Compliance	E007	11/04/2024	Beryllium, total	0.0002 U	mg/L
G307D	Compliance	E007	11/04/2024	Boron, total	1.38	mg/L
G307D	Compliance	E007	11/04/2024	Cadmium, total	0.0002 U	mg/L
G307D	Compliance	E007	11/04/2024	Calcium, total	136	mg/L
G307D	Compliance	E007	11/04/2024	Chloride, total	13.6	mg/L
G307D	Compliance	E007	11/04/2024	Chromium, total	0.0007 U	mg/L
G307D	Compliance	E007	11/04/2024	Cobalt, total	0.0001 U	mg/L
G307D	Compliance	E007	11/04/2024	Dissolved Oxygen	1.81	mg/L
G307D	Compliance	E007	11/04/2024	Fluoride, total	0.690	mg/L
G307D	Compliance	E007	11/04/2024	Lead, total	0.0006 U	mg/L
G307D	Compliance	E007	11/04/2024	Lithium, total	0.0014 U	mg/L
G307D	Compliance	E007	11/04/2024	Mercury, total	0.00006 U	mg/L
G307D	Compliance	E007	11/04/2024	Molybdenum, total	0.00550	mg/L
G307D	Compliance	E007	11/04/2024	Oxidation Reduction Potential	-106	mV
G307D	Compliance	E007	11/04/2024	pH (field)	7.0	SU
G307D	Compliance	E007	11/04/2024	Radium 226 + Radium 228, total	0.085	pCi/L
G307D	Compliance	E007	11/04/2024	Selenium, total	0.0006 U	mg/L
G307D	Compliance	E007	11/04/2024	Specific Conductance @ 25C (field)	1,300	micromhos/cm
G307D	Compliance	E007	11/04/2024	Sulfate, total	500	mg/L
G307D	Compliance	E007	11/04/2024	Temperature	17.0	degrees C
G307D	Compliance	E007	11/04/2024	Thallium, total	0.001 U	mg/L
G307D	Compliance	E007	11/04/2024	Total Dissolved Solids	960	mg/L
G307D	Compliance	E007	11/04/2024	Turbidity, field	14.0	NTU
G308	Compliance	E007	11/04/2024	Antimony, total	0.0008 J	mg/L
G308	Compliance	E007	11/04/2024	Arsenic, total	0.0007 J	mg/L
G308	Compliance	E007	11/04/2024	Barium, total	0.0180	mg/L
G308	Compliance	E007	11/04/2024	Beryllium, total	0.0002 U	mg/L
G308	Compliance	E007	11/04/2024	Boron, total	2.93	mg/L
G308	Compliance	E007	11/04/2024	Cadmium, total	0.0002 U	mg/L
G308	Compliance	E007	11/04/2024	Calcium, total	189	mg/L
G308	Compliance	E007	11/04/2024	Chloride, total	8.50	mg/L
G308	Compliance	E007	11/04/2024	Chromium, total	0.0007 U	mg/L
G308	Compliance	E007	11/04/2024	Cobalt, total	0.0003 J	mg/L
G308	Compliance	E007	11/04/2024	Dissolved Oxygen	1.03	mg/L
G308	Compliance	E007	11/04/2024	Fluoride, total	0.520	mg/L
G308	Compliance	E007	11/04/2024	Lead, total	0.0006 U	mg/L
G308	Compliance	E007	11/04/2024	Lithium, total	0.00680	mg/L
G308	Compliance	E007	11/04/2024	Mercury, total	0.00006 U	mg/L
G308	Compliance	E007	11/04/2024	Molybdenum, total	0.00280	mg/L
G308	Compliance	E007	11/04/2024	Oxidation Reduction Potential	-15.0	mV
G308	Compliance	E007	11/04/2024	pH (field)	6.9	SU
G308	Compliance	E007	11/04/2024	Radium 226 + Radium 228, total	0.202	pCi/L
G308	Compliance	E007	11/04/2024	Selenium, total	0.0006 U	mg/L
G308	Compliance	E007	11/04/2024	Specific Conductance @ 25C (field)	1,680	micromhos/cm
G308	Compliance	E007	11/04/2024	Sulfate, total	849	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
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COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G308	Compliance	E007	11/04/2024	Temperature	17.1	degrees C
G308	Compliance	E007	11/04/2024	Thallium, total	0.001 U	mg/L
G308	Compliance	E007	11/04/2024	Total Dissolved Solids	600	mg/L
G308	Compliance	E007	11/04/2024	Turbidity, field	17.0	NTU
G310	Compliance	E007	11/06/2024	Antimony, total	0.0004 U	mg/L
G310	Compliance	E007	11/06/2024	Arsenic, total	0.0004 U	mg/L
G310	Compliance	E007	11/06/2024	Barium, total	0.0171	mg/L
G310	Compliance	E007	11/06/2024	Beryllium, total	0.0002 U	mg/L
G310	Compliance	E007	11/06/2024	Boron, total	2.17	mg/L
G310	Compliance	E007	11/06/2024	Cadmium, total	0.0002 U	mg/L
G310	Compliance	E007	11/06/2024	Calcium, total	140	mg/L
G310	Compliance	E007	11/06/2024	Chloride, total	10.7	mg/L
G310	Compliance	E007	11/06/2024	Chromium, total	0.0007 U	mg/L
G310	Compliance	E007	11/06/2024	Cobalt, total	0.00150	mg/L
G310	Compliance	E007	11/06/2024	Dissolved Oxygen	1.29	mg/L
G310	Compliance	E007	11/06/2024	Fluoride, total	0.21 J	mg/L
G310	Compliance	E007	11/06/2024	Lead, total	0.0006 U	mg/L
G310	Compliance	E007	11/06/2024	Lithium, total	0.00710	mg/L
G310	Compliance	E007	11/06/2024	Mercury, total	0.00006 U	mg/L
G310	Compliance	E007	11/06/2024	Molybdenum, total	0.0006 U	mg/L
G310	Compliance	E007	11/06/2024	Oxidation Reduction Potential	46.0	mV
G310	Compliance	E007	11/06/2024	pH (field)	6.9	SU
G310	Compliance	E007	11/06/2024	Radium 226 + Radium 228, total	2.96	pCi/L
G310	Compliance	E007	11/06/2024	Selenium, total	0.0006 U	mg/L
G310	Compliance	E007	11/06/2024	Specific Conductance @ 25C (field)	1,030	micromhos/cm
G310	Compliance	E007	11/06/2024	Sulfate, total	523	mg/L
G310	Compliance	E007	11/06/2024	Temperature	16.6	degrees C
G310	Compliance	E007	11/06/2024	Thallium, total	0.001 U	mg/L
G310	Compliance	E007	11/06/2024	Total Dissolved Solids	1,050	mg/L
G310	Compliance	E007	11/06/2024	Turbidity, field	1.40	NTU
G312	Compliance	E007	11/06/2024	Antimony, total	0.0004 U	mg/L
G312	Compliance	E007	11/06/2024	Arsenic, total	0.0006 J	mg/L
G312	Compliance	E007	11/06/2024	Barium, total	0.0367	mg/L
G312	Compliance	E007	11/06/2024	Beryllium, total	0.0002 U	mg/L
G312	Compliance	E007	11/06/2024	Boron, total	3.75	mg/L
G312	Compliance	E007	11/06/2024	Cadmium, total	0.0002 J	mg/L
G312	Compliance	E007	11/06/2024	Calcium, total	211	mg/L
G312	Compliance	E007	11/06/2024	Chloride, total	22.6	mg/L
G312	Compliance	E007	11/06/2024	Chromium, total	0.0007 U	mg/L
G312	Compliance	E007	11/06/2024	Cobalt, total	0.00280	mg/L
G312	Compliance	E007	11/06/2024	Dissolved Oxygen	1.90	mg/L
G312	Compliance	E007	11/06/2024	Fluoride, total	0.31 J	mg/L
G312	Compliance	E007	11/06/2024	Lead, total	0.0006 U	mg/L
G312	Compliance	E007	11/06/2024	Lithium, total	0.0175	mg/L
G312	Compliance	E007	11/06/2024	Mercury, total	0.00006 U	mg/L
G312	Compliance	E007	11/06/2024	Molybdenum, total	0.0012 J	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
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COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G312	Compliance	E007	11/06/2024	Oxidation Reduction Potential	79.0	mV
G312	Compliance	E007	11/06/2024	pH (field)	6.3	SU
G312	Compliance	E007	11/06/2024	Radium 226 + Radium 228, total	2.47	pCi/L
G312	Compliance	E007	11/06/2024	Selenium, total	0.0006 U	mg/L
G312	Compliance	E007	11/06/2024	Specific Conductance @ 25C (field)	1,770	micromhos/cm
G312	Compliance	E007	11/06/2024	Sulfate, total	825	mg/L
G312	Compliance	E007	11/06/2024	Temperature	16.9	degrees C
G312	Compliance	E007	11/06/2024	Thallium, total	0.001 U	mg/L
G312	Compliance	E007	11/06/2024	Total Dissolved Solids	1,820	mg/L
G312	Compliance	E007	11/06/2024	Turbidity, field	2.50	NTU
G313	Compliance	E007	11/07/2024	Antimony, total	0.0004 U	mg/L
G313	Compliance	E007	11/07/2024	Arsenic, total	0.0004 U	mg/L
G313	Compliance	E007	11/07/2024	Barium, total	0.0187	mg/L
G313	Compliance	E007	11/07/2024	Beryllium, total	0.0002 U	mg/L
G313	Compliance	E007	11/07/2024	Boron, total	3.43	mg/L
G313	Compliance	E007	11/07/2024	Cadmium, total	0.0002 U	mg/L
G313	Compliance	E007	11/07/2024	Calcium, total	196	mg/L
G313	Compliance	E007	11/07/2024	Chloride, total	18.0	mg/L
G313	Compliance	E007	11/07/2024	Chromium, total	0.0007 U	mg/L
G313	Compliance	E007	11/07/2024	Cobalt, total	0.0007 J	mg/L
G313	Compliance	E007	11/07/2024	Dissolved Oxygen	1.45	mg/L
G313	Compliance	E007	11/07/2024	Fluoride, total	0.2 U	mg/L
G313	Compliance	E007	11/07/2024	Lead, total	0.0006 U	mg/L
G313	Compliance	E007	11/07/2024	Lithium, total	0.0196	mg/L
G313	Compliance	E007	11/07/2024	Mercury, total	0.00006 U	mg/L
G313	Compliance	E007	11/07/2024	Molybdenum, total	0.0014 J	mg/L
G313	Compliance	E007	11/07/2024	Oxidation Reduction Potential	36.0	mV
G313	Compliance	E007	11/07/2024	pH (field)	6.7	SU
G313	Compliance	E007	11/07/2024	Radium 226 + Radium 228, total	4.08	pCi/L
G313	Compliance	E007	11/07/2024	Selenium, total	0.0006 U	mg/L
G313	Compliance	E007	11/07/2024	Specific Conductance @ 25C (field)	1,400	micromhos/cm
G313	Compliance	E007	11/07/2024	Sulfate, total	648	mg/L
G313	Compliance	E007	11/07/2024	Temperature	17.1	degrees C
G313	Compliance	E007	11/07/2024	Thallium, total	0.001 U	mg/L
G313	Compliance	E007	11/07/2024	Total Dissolved Solids	1,480	mg/L
G313	Compliance	E007	11/07/2024	Turbidity, field	19.0	NTU
G314	Compliance	E007	11/06/2024	Antimony, total	0.0004 U	mg/L
G314	Compliance	E007	11/06/2024	Arsenic, total	0.00110	mg/L
G314	Compliance	E007	11/06/2024	Barium, total	0.0202	mg/L
G314	Compliance	E007	11/06/2024	Beryllium, total	0.0002 U	mg/L
G314	Compliance	E007	11/06/2024	Boron, total	0.170	mg/L
G314	Compliance	E007	11/06/2024	Cadmium, total	0.0002 U	mg/L
G314	Compliance	E007	11/06/2024	Calcium, total	607	mg/L
G314	Compliance	E007	11/06/2024	Chloride, total	31.2	mg/L
G314	Compliance	E007	11/06/2024	Chromium, total	0.0007 U	mg/L
G314	Compliance	E007	11/06/2024	Cobalt, total	0.00270	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G314	Compliance	E007	11/06/2024	Dissolved Oxygen	1.05	mg/L
G314	Compliance	E007	11/06/2024	Fluoride, total	0.2 U	mg/L
G314	Compliance	E007	11/06/2024	Lead, total	0.0006 U	mg/L
G314	Compliance	E007	11/06/2024	Lithium, total	0.00630	mg/L
G314	Compliance	E007	11/06/2024	Mercury, total	0.00006 U	mg/L
G314	Compliance	E007	11/06/2024	Molybdenum, total	0.001 J	mg/L
G314	Compliance	E007	11/06/2024	Oxidation Reduction Potential	-96.0	mV
G314	Compliance	E007	11/06/2024	pH (field)	6.4	SU
G314	Compliance	E007	11/06/2024	Radium 226 + Radium 228, total	1.44	pCi/L
G314	Compliance	E007	11/06/2024	Selenium, total	0.0006 U	mg/L
G314	Compliance	E007	11/06/2024	Specific Conductance @ 25C (field)	2,980	micromhos/cm
G314	Compliance	E007	11/06/2024	Sulfate, total	2,250	mg/L
G314	Compliance	E007	11/06/2024	Temperature	16.8	degrees C
G314	Compliance	E007	11/06/2024	Thallium, total	0.001 U	mg/L
G314	Compliance	E007	11/06/2024	Total Dissolved Solids	3,820	mg/L
G314	Compliance	E007	11/06/2024	Turbidity, field	32.0	NTU
G314D	Compliance	E007	11/04/2024	Antimony, total	0.0004 U	mg/L
G314D	Compliance	E007	11/04/2024	Arsenic, total	0.0103	mg/L
G314D	Compliance	E007	11/04/2024	Barium, total	0.0315	mg/L
G314D	Compliance	E007	11/04/2024	Beryllium, total	0.0002 U	mg/L
G314D	Compliance	E007	11/04/2024	Boron, total	0.218	mg/L
G314D	Compliance	E007	11/04/2024	Cadmium, total	0.0002 U	mg/L
G314D	Compliance	E007	11/04/2024	Calcium, total	307	mg/L
G314D	Compliance	E007	11/04/2024	Chloride, total	50.5	mg/L
G314D	Compliance	E007	11/04/2024	Chromium, total	0.0007 U	mg/L
G314D	Compliance	E007	11/04/2024	Cobalt, total	0.00480	mg/L
G314D	Compliance	E007	11/04/2024	Dissolved Oxygen	0.480	mg/L
G314D	Compliance	E007	11/04/2024	Fluoride, total	0.46 J	mg/L
G314D	Compliance	E007	11/04/2024	Lead, total	0.0006 U	mg/L
G314D	Compliance	E007	11/04/2024	Lithium, total	0.0108	mg/L
G314D	Compliance	E007	11/04/2024	Mercury, total	0.00006 U	mg/L
G314D	Compliance	E007	11/04/2024	Molybdenum, total	0.00450	mg/L
G314D	Compliance	E007	11/04/2024	Oxidation Reduction Potential	-94.0	mV
G314D	Compliance	E007	11/04/2024	pH (field)	6.7	SU
G314D	Compliance	E007	11/04/2024	Radium 226 + Radium 228, total	1.79	pCi/L
G314D	Compliance	E007	11/04/2024	Selenium, total	0.0006 U	mg/L
G314D	Compliance	E007	11/04/2024	Specific Conductance @ 25C (field)	2,780	micromhos/cm
G314D	Compliance	E007	11/04/2024	Sulfate, total	1,190	mg/L
G314D	Compliance	E007	11/04/2024	Temperature	15.8	degrees C
G314D	Compliance	E007	11/04/2024	Thallium, total	0.001 U	mg/L
G314D	Compliance	E007	11/04/2024	Total Dissolved Solids	2,450	mg/L
G314D	Compliance	E007	11/04/2024	Turbidity, field	320	NTU
G315	Compliance	E007	11/04/2024	Antimony, total	0.0004 U	mg/L
G315	Compliance	E007	11/04/2024	Arsenic, total	0.0004 J	mg/L
G315	Compliance	E007	11/04/2024	Barium, total	0.0192	mg/L
G315	Compliance	E007	11/04/2024	Beryllium, total	0.0002 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
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COFFEEN POWER PLANT
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COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G315	Compliance	E007	11/04/2024	Boron, total	1.51	mg/L
G315	Compliance	E007	11/04/2024	Cadmium, total	0.0002 U	mg/L
G315	Compliance	E007	11/04/2024	Calcium, total	137	mg/L
G315	Compliance	E007	11/04/2024	Chloride, total	12.4	mg/L
G315	Compliance	E007	11/04/2024	Chromium, total	0.0007 U	mg/L
G315	Compliance	E007	11/04/2024	Cobalt, total	0.0008 J	mg/L
G315	Compliance	E007	11/04/2024	Dissolved Oxygen	0.660	mg/L
G315	Compliance	E007	11/04/2024	Fluoride, total	0.2 U	mg/L
G315	Compliance	E007	11/04/2024	Lead, total	0.0006 U	mg/L
G315	Compliance	E007	11/04/2024	Lithium, total	0.00470	mg/L
G315	Compliance	E007	11/04/2024	Mercury, total	0.00006 U	mg/L
G315	Compliance	E007	11/04/2024	Molybdenum, total	0.0007 J	mg/L
G315	Compliance	E007	11/04/2024	Oxidation Reduction Potential	44.0	mV
G315	Compliance	E007	11/04/2024	pH (field)	6.6	SU
G315	Compliance	E007	11/04/2024	Radium 226 + Radium 228, total	1.7	pCi/L
G315	Compliance	E007	11/04/2024	Selenium, total	0.0006 U	mg/L
G315	Compliance	E007	11/04/2024	Specific Conductance @ 25C (field)	1,250	micromhos/cm
G315	Compliance	E007	11/04/2024	Sulfate, total	505	mg/L
G315	Compliance	E007	11/04/2024	Temperature	16.1	degrees C
G315	Compliance	E007	11/04/2024	Thallium, total	0.001 U	mg/L
G315	Compliance	E007	11/04/2024	Total Dissolved Solids	1,060	mg/L
G315	Compliance	E007	11/04/2024	Turbidity, field	5.50	NTU
G316	Compliance	E007	11/04/2024	Antimony, total	0.0004 U	mg/L
G316	Compliance	E007	11/04/2024	Arsenic, total	0.0102	mg/L
G316	Compliance	E007	11/04/2024	Barium, total	0.0745	mg/L
G316	Compliance	E007	11/04/2024	Beryllium, total	0.0002 U	mg/L
G316	Compliance	E007	11/04/2024	Boron, total	0.491	mg/L
G316	Compliance	E007	11/04/2024	Cadmium, total	0.0002 U	mg/L
G316	Compliance	E007	11/04/2024	Calcium, total	202	mg/L
G316	Compliance	E007	11/04/2024	Chloride, total	22.9	mg/L
G316	Compliance	E007	11/04/2024	Chromium, total	0.0007 U	mg/L
G316	Compliance	E007	11/04/2024	Cobalt, total	0.00320	mg/L
G316	Compliance	E007	11/04/2024	Dissolved Oxygen	0.770	mg/L
G316	Compliance	E007	11/04/2024	Fluoride, total	0.22 J	mg/L
G316	Compliance	E007	11/04/2024	Lead, total	0.0006 U	mg/L
G316	Compliance	E007	11/04/2024	Lithium, total	0.0015 J	mg/L
G316	Compliance	E007	11/04/2024	Mercury, total	0.00006 U	mg/L
G316	Compliance	E007	11/04/2024	Molybdenum, total	0.00680	mg/L
G316	Compliance	E007	11/04/2024	Oxidation Reduction Potential	-116	mV
G316	Compliance	E007	11/04/2024	pH (field)	7.0	SU
G316	Compliance	E007	11/04/2024	Radium 226 + Radium 228, total	1.51	pCi/L
G316	Compliance	E007	11/04/2024	Selenium, total	0.0006 U	mg/L
G316	Compliance	E007	11/04/2024	Specific Conductance @ 25C (field)	1,990	micromhos/cm
G316	Compliance	E007	11/04/2024	Sulfate, total	634	mg/L
G316	Compliance	E007	11/04/2024	Temperature	16.6	degrees C
G316	Compliance	E007	11/04/2024	Thallium, total	0.001 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024

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COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G316	Compliance	E007	11/04/2024	Total Dissolved Solids	1,380	mg/L
G316	Compliance	E007	11/04/2024	Turbidity, field	59.0	NTU

Notes:

C = Celsius

cm = centimeter

Events:

E007 = Quarter 4, 2024 sampling event

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

Result Code (if applicable):

NR¹ = Parameter not analyzed.

NS¹ = Well has been, or will be, abandoned; therefore, a sample was not collected.

NS² = Well either needs or was undergoing maintenance; therefore, a sample was not collected.

NS³ = The location was not accessible; therefore, a sample was not collected.

NS⁴ = The location could not be found; therefore, a sample was not collected.

NS⁵ = The location was damaged; therefore, a sample was not collected.

NS⁶ = Sampling pump could not yield a sample.

NS⁷ = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.

NS⁸ = A sample was not collected.

PM¹ = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.

Result qualifiers as defined in the United States Environmental Protection Agency's *National Functional Guidelines for Inorganic Superfund Methods Data Review*, EPA 542-R-20-006. November 2020.:

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

SU = Standard Units

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
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COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G301	UA	E007	Antimony, total	mg/L	11/20/15 - 11/07/24	21	90	CB around T-S line	0.00168	0.006	Standard	No Exceedance
G301	UA	E007	Arsenic, total	mg/L	11/20/15 - 11/07/24	26	69	CI around median	0.001	0.010	Standard	No Exceedance
G301	UA	E007	Barium, total	mg/L	11/20/15 - 11/07/24	26	0	CB around T-S line	-0.00771	2.0	Standard	No Exceedance
G301	UA	E007	Beryllium, total	mg/L	11/20/15 - 11/07/24	25	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G301	UA	E007	Boron, total	mg/L	11/20/15 - 11/07/24	27	0	CI around mean	2.15	3.20	Background	No Exceedance
G301	UA	E007	Cadmium, total	mg/L	11/20/15 - 11/07/24	26	96	CI around median	0.001	0.005	Standard	No Exceedance
G301	UA	E007	Chloride, total	mg/L	11/20/15 - 11/07/24	27	0	CB around T-S line	5.61	200	Standard	No Exceedance
G301	UA	E007	Chromium, total	mg/L	11/20/15 - 11/07/24	26	65	CB around T-S line	0.000772	0.1	Standard	No Exceedance
G301	UA	E007	Cobalt, total	mg/L	11/20/15 - 11/07/24	26	27	CB around T-S line	0.000326	0.006	Standard	No Exceedance
G301	UA	E007	Fluoride, total	mg/L	11/20/15 - 11/07/24	27	37	CI around median	0.25	4.0	Standard	No Exceedance
G301	UA	E007	Lead, total	mg/L	11/20/15 - 11/07/24	26	54	CB around T-S line	-0.000263	0.0075	Standard	No Exceedance
G301	UA	E007	Lithium, total	mg/L	11/20/15 - 11/07/24	26	50	CI around median	0.01	0.04	Standard	No Exceedance
G301	UA	E007	Mercury, total	mg/L	11/20/15 - 11/07/24	21	95	CI around median	0.0002	0.002	Standard	No Exceedance
G301	UA	E007	Molybdenum, total	mg/L	11/20/15 - 11/07/24	26	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G301	UA	E007	pH (field)	SU	11/20/15 - 11/07/24	27	0	CB around linear reg	6.3/6.7	6.5/9.0	Standard/Standard	No Exceedance
G301	UA	E007	Radium 226 + Radium 228, total	pCi/L	11/20/15 - 11/07/24	26	0	CI around mean	0.475	5	Standard	No Exceedance
G301	UA	E007	Selenium, total	mg/L	11/20/15 - 11/07/24	25	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G301	UA	E007	Sulfate, total	mg/L	11/20/15 - 11/07/24	27	0	CB around linear reg	439	400	Standard	Exceedance
G301	UA	E007	Thallium, total	mg/L	11/20/15 - 11/07/24	21	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G301	UA	E007	Total Dissolved Solids	mg/L	11/20/15 - 11/07/24	27	0	CB around linear reg	845	1,200	Standard	No Exceedance
G302	UA	E007	Antimony, total	mg/L	11/20/15 - 11/06/24	21	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G302	UA	E007	Arsenic, total	mg/L	11/20/15 - 11/06/24	26	27	CI around median	0.001	0.010	Standard	No Exceedance
G302	UA	E007	Barium, total	mg/L	11/20/15 - 11/06/24	26	0	CI around geomean	0.0292	2.0	Standard	No Exceedance
G302	UA	E007	Beryllium, total	mg/L	11/20/15 - 11/06/24	25	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G302	UA	E007	Boron, total	mg/L	11/20/15 - 11/06/24	27	0	CI around mean	1.71	3.20	Background	No Exceedance
G302	UA	E007	Cadmium, total	mg/L	11/20/15 - 11/06/24	26	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G302	UA	E007	Chloride, total	mg/L	11/20/15 - 11/06/24	27	4	CI around mean	12.4	200	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G302	UA	E007	Chromium, total	mg/L	11/20/15 - 11/06/24	26	69	CB around T-S line	0.00167	0.1	Standard	No Exceedance
G302	UA	E007	Cobalt, total	mg/L	11/20/15 - 11/06/24	26	23	CI around median	0.002	0.006	Standard	No Exceedance
G302	UA	E007	Fluoride, total	mg/L	11/20/15 - 11/06/24	27	37	CI around median	0.25	4.0	Standard	No Exceedance
G302	UA	E007	Lead, total	mg/L	11/20/15 - 11/06/24	26	58	CI around median	0.001	0.0075	Standard	No Exceedance
G302	UA	E007	Lithium, total	mg/L	11/20/15 - 11/06/24	26	27	CB around linear reg	0.011	0.04	Standard	No Exceedance
G302	UA	E007	Mercury, total	mg/L	11/20/15 - 11/06/24	21	95	CI around median	0.0002	0.002	Standard	No Exceedance
G302	UA	E007	Molybdenum, total	mg/L	11/20/15 - 11/06/24	26	54	CI around median	0.001	0.1	Standard	No Exceedance
G302	UA	E007	pH (field)	SU	11/20/15 - 11/06/24	27	0	CB around linear reg	6.5/6.8	6.5/9.0	Standard/Standard	No Exceedance
G302	UA	E007	Radium 226 + Radium 228, total	pCi/L	11/20/15 - 11/06/24	26	0	CI around geomean	0.374	5	Standard	No Exceedance
G302	UA	E007	Selenium, total	mg/L	11/20/15 - 11/06/24	25	96	CI around median	0.001	0.05	Standard	No Exceedance
G302	UA	E007	Sulfate, total	mg/L	11/20/15 - 11/06/24	27	0	CI around mean	391	400	Standard	No Exceedance
G302	UA	E007	Thallium, total	mg/L	11/20/15 - 11/06/24	21	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G302	UA	E007	Total Dissolved Solids	mg/L	11/20/15 - 11/06/24	27	0	CI around mean	994	1,200	Standard	No Exceedance
G303	UA	E007	Antimony, total	mg/L	11/20/15 - 11/06/24	21	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G303	UA	E007	Arsenic, total	mg/L	11/20/15 - 11/06/24	26	4	CB around T-S line	-0.00302	0.010	Standard	No Exceedance
G303	UA	E007	Barium, total	mg/L	11/20/15 - 11/06/24	26	0	CI around median	0.016	2.0	Standard	No Exceedance
G303	UA	E007	Beryllium, total	mg/L	11/20/15 - 11/06/24	25	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G303	UA	E007	Boron, total	mg/L	11/20/15 - 11/06/24	27	0	CB around linear reg	2	3.20	Background	No Exceedance
G303	UA	E007	Cadmium, total	mg/L	11/20/15 - 11/06/24	26	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G303	UA	E007	Chloride, total	mg/L	11/20/15 - 11/06/24	27	0	CB around linear reg	25.2	200	Standard	No Exceedance
G303	UA	E007	Chromium, total	mg/L	11/20/15 - 11/06/24	26	81	CB around T-S line	0.00186	0.1	Standard	No Exceedance
G303	UA	E007	Cobalt, total	mg/L	11/20/15 - 11/06/24	26	27	CI around geomean	0.00138	0.006	Standard	No Exceedance
G303	UA	E007	Fluoride, total	mg/L	11/20/15 - 11/06/24	27	26	CI around median	0.268	4.0	Standard	No Exceedance
G303	UA	E007	Lead, total	mg/L	11/20/15 - 11/06/24	26	85	CI around median	0.001	0.0075	Standard	No Exceedance
G303	UA	E007	Lithium, total	mg/L	11/20/15 - 11/06/24	26	0	CB around linear reg	0.0156	0.04	Standard	No Exceedance
G303	UA	E007	Mercury, total	mg/L	11/20/15 - 11/06/24	21	90	CI around median	0.0002	0.002	Standard	No Exceedance
G303	UA	E007	Molybdenum, total	mg/L	11/20/15 - 11/06/24	26	0	CI around mean	0.00177	0.1	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G303	UA	E007	pH (field)	SU	11/20/15 - 11/06/24	27	0	CB around linear reg	6.6/6.8	6.5/9.0	Standard/Standard	No Exceedance
G303	UA	E007	Radium 226 + Radium 228, total	pCi/L	11/20/15 - 11/06/24	26	0	CI around geomean	0.496	5	Standard	No Exceedance
G303	UA	E007	Selenium, total	mg/L	11/20/15 - 11/06/24	25	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G303	UA	E007	Sulfate, total	mg/L	11/20/15 - 11/06/24	27	0	CB around linear reg	606	400	Standard	Exceedance
G303	UA	E007	Thallium, total	mg/L	11/20/15 - 11/06/24	21	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G303	UA	E007	Total Dissolved Solids	mg/L	11/20/15 - 11/06/24	27	0	CI around mean	1,530	1,200	Standard	Exceedance
G305	UA	E007	Antimony, total	mg/L	05/19/16 - 11/06/24	13	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G305	UA	E007	Arsenic, total	mg/L	05/19/16 - 11/06/24	13	69	CI around median	0.001	0.010	Standard	No Exceedance
G305	UA	E007	Barium, total	mg/L	05/19/16 - 11/06/24	13	0	CB around T-S line	-0.0283	2.0	Standard	No Exceedance
G305	UA	E007	Beryllium, total	mg/L	05/19/16 - 11/06/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G305	UA	E007	Boron, total	mg/L	05/19/16 - 11/06/24	13	0	CI around mean	2.13	3.20	Background	No Exceedance
G305	UA	E007	Cadmium, total	mg/L	05/19/16 - 11/06/24	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G305	UA	E007	Chloride, total	mg/L	05/19/16 - 11/06/24	13	0	CB around T-S line	13.3	200	Standard	No Exceedance
G305	UA	E007	Chromium, total	mg/L	05/19/16 - 11/06/24	13	62	CB around T-S line	-0.0192	0.1	Standard	No Exceedance
G305	UA	E007	Cobalt, total	mg/L	05/19/16 - 11/06/24	13	77	CB around T-S line	-0.00552	0.006	Standard	No Exceedance
G305	UA	E007	Fluoride, total	mg/L	05/19/16 - 11/06/24	13	15	CI around mean	0.376	4.0	Standard	No Exceedance
G305	UA	E007	Lead, total	mg/L	05/19/16 - 11/06/24	13	38	CB around T-S line	-0.0188	0.0075	Standard	No Exceedance
G305	UA	E007	Lithium, total	mg/L	05/19/16 - 11/06/24	13	31	CB around T-S line	-0.00302	0.04	Standard	No Exceedance
G305	UA	E007	Mercury, total	mg/L	05/19/16 - 11/06/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G305	UA	E007	Molybdenum, total	mg/L	05/19/16 - 11/06/24	13	62	CI around median	0.001	0.1	Standard	No Exceedance
G305	UA	E007	pH (field)	SU	05/19/16 - 11/06/24	13	0	CI around mean	7.0/7.3	6.5/9.0	Standard/Standard	No Exceedance
G305	UA	E007	Radium 226 + Radium 228, total	pCi/L	05/19/16 - 11/06/24	13	0	CI around geomean	0.207	5	Standard	No Exceedance
G305	UA	E007	Selenium, total	mg/L	05/19/16 - 11/06/24	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G305	UA	E007	Sulfate, total	mg/L	05/19/16 - 11/06/24	13	0	CI around mean	814	400	Standard	Exceedance
G305	UA	E007	Thallium, total	mg/L	05/19/16 - 11/06/24	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G305	UA	E007	Total Dissolved Solids	mg/L	05/19/16 - 11/06/24	13	0	CI around mean	1,390	1,200	Standard	Exceedance
G307	UA	E007	Antimony, total	mg/L	08/16/16 - 11/04/24	17	100	All ND - Last	0.001	0.006	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G307	UA	E007	Arsenic, total	mg/L	08/16/16 - 11/04/24	22	54	CI around median	0.001	0.010	Standard	No Exceedance
G307	UA	E007	Barium, total	mg/L	08/16/16 - 11/04/24	22	0	CI around geomean	0.0321	2.0	Standard	No Exceedance
G307	UA	E007	Beryllium, total	mg/L	08/16/16 - 11/04/24	21	90	CI around median	0.001	0.004	Standard	No Exceedance
G307	UA	E007	Boron, total	mg/L	08/16/16 - 11/04/24	23	0	CI around mean	2.02	3.20	Background	No Exceedance
G307	UA	E007	Cadmium, total	mg/L	08/16/16 - 11/04/24	22	59	CI around median	0.001	0.005	Standard	No Exceedance
G307	UA	E007	Chloride, total	mg/L	08/16/16 - 11/04/24	23	0	CB around linear reg	7.46	200	Standard	No Exceedance
G307	UA	E007	Chromium, total	mg/L	08/16/16 - 11/04/24	22	46	CI around geomean	0.002	0.1	Standard	No Exceedance
G307	UA	E007	Cobalt, total	mg/L	08/16/16 - 11/04/24	23	0	CI around median	0.0026	0.006	Standard	No Exceedance
G307	UA	E007	Fluoride, total	mg/L	08/16/16 - 11/04/24	23	13	CI around median	0.264	4.0	Standard	No Exceedance
G307	UA	E007	Lead, total	mg/L	08/16/16 - 11/04/24	22	41	CI around median	0.001	0.0075	Standard	No Exceedance
G307	UA	E007	Lithium, total	mg/L	08/16/16 - 11/04/24	22	41	CI around median	0.012	0.04	Standard	No Exceedance
G307	UA	E007	Mercury, total	mg/L	08/16/16 - 11/04/24	17	82	CI around median	0.0002	0.002	Standard	No Exceedance
G307	UA	E007	Molybdenum, total	mg/L	08/16/16 - 11/04/24	22	18	CI around median	0.0013	0.1	Standard	No Exceedance
G307	UA	E007	pH (field)	SU	08/16/16 - 11/04/24	24	0	CI around mean	7.0/7.2	6.5/9.0	Standard/Standard	No Exceedance
G307	UA	E007	Radium 226 + Radium 228, total	pCi/L	08/16/16 - 11/04/24	22	0	CI around mean	0.623	5	Standard	No Exceedance
G307	UA	E007	Selenium, total	mg/L	08/16/16 - 11/04/24	21	86	CI around median	0.001	0.05	Standard	No Exceedance
G307	UA	E007	Sulfate, total	mg/L	08/16/16 - 11/04/24	23	0	CB around linear reg	368	400	Standard	No Exceedance
G307	UA	E007	Thallium, total	mg/L	08/16/16 - 11/04/24	17	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G307	UA	E007	Total Dissolved Solids	mg/L	08/16/16 - 11/04/24	23	0	CB around linear reg	844	1,200	Standard	No Exceedance
G307D	LCU	E007	Antimony, total	mg/L	03/29/21 - 11/04/24	13	92	CB around T-S line	0.000207	0.006	Standard	No Exceedance
G307D	LCU	E007	Arsenic, total	mg/L	03/29/21 - 11/04/24	13	15	CI around geomean	0.00103	0.010	Standard	No Exceedance
G307D	LCU	E007	Barium, total	mg/L	03/29/21 - 11/04/24	13	0	CB around T-S line	0.00755	2.0	Standard	No Exceedance
G307D	LCU	E007	Beryllium, total	mg/L	03/29/21 - 11/04/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G307D	LCU	E007	Boron, total	mg/L	03/29/21 - 11/04/24	13	0	CI around mean	1.28	3.20	Background	No Exceedance
G307D	LCU	E007	Cadmium, total	mg/L	03/29/21 - 11/04/24	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G307D	LCU	E007	Chloride, total	mg/L	03/29/21 - 11/04/24	12	0	CB around linear reg	5.83	200	Standard	No Exceedance
G307D	LCU	E007	Chromium, total	mg/L	03/29/21 - 11/04/24	13	100	All ND - Last	0.0015	0.1	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G307D	LCU	E007	Cobalt, total	mg/L	03/29/21 - 11/04/24	13	92	CB around T-S line	0.000591	0.006	Standard	No Exceedance
G307D	LCU	E007	Fluoride, total	mg/L	03/29/21 - 11/04/24	12	8	CI around mean	0.46	4.0	Standard	No Exceedance
G307D	LCU	E007	Lead, total	mg/L	03/29/21 - 11/04/24	13	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G307D	LCU	E007	Lithium, total	mg/L	03/29/21 - 11/04/24	13	92	CB around T-S line	-0.00556	0.04	Standard	No Exceedance
G307D	LCU	E007	Mercury, total	mg/L	03/29/21 - 11/04/24	13	92	CI around median	0.0002	0.002	Standard	No Exceedance
G307D	LCU	E007	Molybdenum, total	mg/L	03/29/21 - 11/04/24	13	0	CI around mean	0.00508	0.1	Standard	No Exceedance
G307D	LCU	E007	pH (field)	SU	03/29/21 - 11/04/24	13	0	CB around linear reg	6.9/7.2	6.5/9.0	Standard/Standard	No Exceedance
G307D	LCU	E007	Radium 226 + Radium 228, total	pCi/L	03/29/21 - 11/04/24	14	0	CI around geomean	0.22	5	Standard	No Exceedance
G307D	LCU	E007	Selenium, total	mg/L	03/29/21 - 11/04/24	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G307D	LCU	E007	Sulfate, total	mg/L	03/29/21 - 11/04/24	12	0	CB around linear reg	461	400	Standard	Exceedance
G307D	LCU	E007	Thallium, total	mg/L	03/29/21 - 11/04/24	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G307D	LCU	E007	Total Dissolved Solids	mg/L	03/29/21 - 11/04/24	12	0	CB around linear reg	860	1,200	Standard	No Exceedance
G308	UA	E007	Antimony, total	mg/L	03/29/21 - 11/04/24	16	94	CB around T-S line	0.000263	0.006	Standard	No Exceedance
G308	UA	E007	Arsenic, total	mg/L	03/29/21 - 11/04/24	16	88	CI around median	0.001	0.010	Standard	No Exceedance
G308	UA	E007	Barium, total	mg/L	03/29/21 - 11/04/24	16	0	CI around mean	0.0195	2.0	Standard	No Exceedance
G308	UA	E007	Beryllium, total	mg/L	03/29/21 - 11/04/24	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G308	UA	E007	Boron, total	mg/L	03/29/21 - 11/04/24	16	0	CI around mean	2.48	3.20	Background	No Exceedance
G308	UA	E007	Cadmium, total	mg/L	03/29/21 - 11/04/24	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G308	UA	E007	Chloride, total	mg/L	03/29/21 - 11/04/24	16	6	CB around T-S line	5.49	200	Standard	No Exceedance
G308	UA	E007	Chromium, total	mg/L	03/29/21 - 11/04/24	16	94	CB around T-S line	0.000561	0.1	Standard	No Exceedance
G308	UA	E007	Cobalt, total	mg/L	03/29/21 - 11/04/24	16	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G308	UA	E007	Fluoride, total	mg/L	03/29/21 - 11/04/24	16	6	CI around median	0.503	4.0	Standard	No Exceedance
G308	UA	E007	Lead, total	mg/L	03/29/21 - 11/04/24	16	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G308	UA	E007	Lithium, total	mg/L	03/29/21 - 11/04/24	16	62	CB around T-S line	0.00264	0.04	Standard	No Exceedance
G308	UA	E007	Mercury, total	mg/L	03/29/21 - 11/04/24	16	94	CI around median	0.0002	0.002	Standard	No Exceedance
G308	UA	E007	Molybdenum, total	mg/L	03/29/21 - 11/04/24	16	12	CI around mean	0.00113	0.1	Standard	No Exceedance
G308	UA	E007	pH (field)	SU	03/29/21 - 11/04/24	16	0	CI around mean	7.1/7.3	6.5/9.0	Standard/Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G308	UA	E007	Radium 226 + Radium 228, total	pCi/L	03/29/21 - 11/04/24	15	0	CI around median	0.0476	5	Standard	No Exceedance
G308	UA	E007	Selenium, total	mg/L	03/29/21 - 11/04/24	16	94	CI around median	0.001	0.05	Standard	No Exceedance
G308	UA	E007	Sulfate, total	mg/L	03/29/21 - 11/04/24	16	0	CB around linear reg	788	400	Standard	Exceedance
G308	UA	E007	Thallium, total	mg/L	03/29/21 - 11/04/24	16	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G308	UA	E007	Total Dissolved Solids	mg/L	03/29/21 - 11/04/24	16	0	CB around T-S line	810	1,200	Standard	No Exceedance
G310	UA	E007	Antimony, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G310	UA	E007	Arsenic, total	mg/L	03/29/21 - 11/06/24	16	94	CI around median	0.001	0.010	Standard	No Exceedance
G310	UA	E007	Barium, total	mg/L	03/29/21 - 11/06/24	16	0	CI around mean	0.0149	2.0	Standard	No Exceedance
G310	UA	E007	Beryllium, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G310	UA	E007	Boron, total	mg/L	03/29/21 - 11/06/24	16	0	CI around mean	1.75	3.20	Background	No Exceedance
G310	UA	E007	Cadmium, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G310	UA	E007	Chloride, total	mg/L	03/29/21 - 11/06/24	16	0	CB around linear reg	7.97	200	Standard	No Exceedance
G310	UA	E007	Chromium, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G310	UA	E007	Cobalt, total	mg/L	03/29/21 - 11/06/24	16	62	CB around T-S line	0.000963	0.006	Standard	No Exceedance
G310	UA	E007	Fluoride, total	mg/L	03/29/21 - 11/06/24	16	25	CI around geomean	0.269	4.0	Standard	No Exceedance
G310	UA	E007	Lead, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G310	UA	E007	Lithium, total	mg/L	03/29/21 - 11/06/24	16	62	CB around T-S line	0.00133	0.04	Standard	No Exceedance
G310	UA	E007	Mercury, total	mg/L	03/29/21 - 11/06/24	16	94	CI around median	0.0002	0.002	Standard	No Exceedance
G310	UA	E007	Molybdenum, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G310	UA	E007	pH (field)	SU	03/29/21 - 11/06/24	16	0	CI around mean	6.9/7.2	6.5/9.0	Standard/Standard	No Exceedance
G310	UA	E007	Radium 226 + Radium 228, total	pCi/L	03/29/21 - 11/06/24	15	0	CI around median	0.0501	5	Standard	No Exceedance
G310	UA	E007	Selenium, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G310	UA	E007	Sulfate, total	mg/L	03/29/21 - 11/06/24	16	0	CB around T-S line	-618	400	Standard	No Exceedance
G310	UA	E007	Thallium, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G310	UA	E007	Total Dissolved Solids	mg/L	03/29/21 - 11/06/24	16	0	CB around linear reg	835	1,200	Standard	No Exceedance
G312	UA	E007	Antimony, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G312	UA	E007	Arsenic, total	mg/L	03/30/21 - 11/06/24	14	93	CI around median	0.001	0.010	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G312	UA	E007	Barium, total	mg/L	03/30/21 - 11/06/24	14	0	CI around mean	0.025	2.0	Standard	No Exceedance
G312	UA	E007	Beryllium, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G312	UA	E007	Boron, total	mg/L	03/30/21 - 11/06/24	14	0	CB around linear reg	2.61	3.20	Background	No Exceedance
G312	UA	E007	Cadmium, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G312	UA	E007	Chloride, total	mg/L	03/30/21 - 11/06/24	14	0	CI around mean	22.6	200	Standard	No Exceedance
G312	UA	E007	Chromium, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G312	UA	E007	Cobalt, total	mg/L	03/30/21 - 11/06/24	14	21	CI around mean	0.00198	0.006	Standard	No Exceedance
G312	UA	E007	Fluoride, total	mg/L	03/30/21 - 11/06/24	14	71	CI around median	0.22	4.0	Standard	No Exceedance
G312	UA	E007	Lead, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G312	UA	E007	Lithium, total	mg/L	03/30/21 - 11/06/24	14	50	CI around mean	0.0172	0.04	Standard	No Exceedance
G312	UA	E007	Mercury, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G312	UA	E007	Molybdenum, total	mg/L	03/30/21 - 11/06/24	14	93	CI around median	0.001	0.1	Standard	No Exceedance
G312	UA	E007	pH (field)	SU	03/30/21 - 11/06/24	14	0	CI around mean	6.3/6.5	6.5/9.0	Standard/Standard	No Exceedance
G312	UA	E007	Radium 226 + Radium 228, total	pCi/L	03/30/21 - 11/06/24	13	0	CI around mean	0.189	5	Standard	No Exceedance
G312	UA	E007	Selenium, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G312	UA	E007	Sulfate, total	mg/L	03/30/21 - 11/06/24	14	0	CI around mean	764	400	Standard	Exceedance
G312	UA	E007	Thallium, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G312	UA	E007	Total Dissolved Solids	mg/L	03/30/21 - 11/06/24	14	0	CB around linear reg	1,620	1,200	Standard	Exceedance
G313	UA	E007	Antimony, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G313	UA	E007	Arsenic, total	mg/L	03/30/21 - 11/07/24	16	88	CI around median	0.001	0.010	Standard	No Exceedance
G313	UA	E007	Barium, total	mg/L	03/30/21 - 11/07/24	16	0	CB around linear reg	0.0148	2.0	Standard	No Exceedance
G313	UA	E007	Beryllium, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G313	UA	E007	Boron, total	mg/L	03/30/21 - 11/07/24	16	0	CI around median	3.3	3.20	Background	Exceedance
G313	UA	E007	Cadmium, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G313	UA	E007	Chloride, total	mg/L	03/30/21 - 11/07/24	16	6	CB around T-S line	16.4	200	Standard	No Exceedance
G313	UA	E007	Chromium, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G313	UA	E007	Cobalt, total	mg/L	03/30/21 - 11/07/24	16	81	CB around T-S line	0.000474	0.006	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G313	UA	E007	Fluoride, total	mg/L	03/30/21 - 11/07/24	16	19	CI around median	0.267	4.0	Standard	No Exceedance
G313	UA	E007	Lead, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G313	UA	E007	Lithium, total	mg/L	03/30/21 - 11/07/24	16	31	CI around median	0.0196	0.04	Standard	No Exceedance
G313	UA	E007	Mercury, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G313	UA	E007	Molybdenum, total	mg/L	03/30/21 - 11/07/24	16	31	CI around geomean	0.00104	0.1	Standard	No Exceedance
G313	UA	E007	pH (field)	SU	03/30/21 - 11/07/24	16	0	CB around linear reg	6.6/6.8	6.5/9.0	Standard/Standard	No Exceedance
G313	UA	E007	Radium 226 + Radium 228, total	pCi/L	03/30/21 - 11/07/24	15	0	CI around median	0.0924	5	Standard	No Exceedance
G313	UA	E007	Selenium, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G313	UA	E007	Sulfate, total	mg/L	03/30/21 - 11/07/24	16	0	CB around T-S line	286	400	Standard	No Exceedance
G313	UA	E007	Thallium, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G313	UA	E007	Total Dissolved Solids	mg/L	03/30/21 - 11/07/24	16	0	CB around linear reg	1,280	1,200	Standard	Exceedance
G314	LCU	E007	Antimony, total	mg/L	03/30/21 - 11/06/24	16	94	CB around T-S line	0.000299	0.006	Standard	No Exceedance
G314	LCU	E007	Arsenic, total	mg/L	03/30/21 - 11/06/24	16	69	CI around median	0.001	0.010	Standard	No Exceedance
G314	LCU	E007	Barium, total	mg/L	03/30/21 - 11/06/24	16	0	CB around T-S line	-0.00168	2.0	Standard	No Exceedance
G314	LCU	E007	Beryllium, total	mg/L	03/30/21 - 11/06/24	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G314	LCU	E007	Boron, total	mg/L	03/30/21 - 11/06/24	16	0	CI around geomean	0.14	3.20	Background	No Exceedance
G314	LCU	E007	Cadmium, total	mg/L	03/30/21 - 11/06/24	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G314	LCU	E007	Chloride, total	mg/L	03/30/21 - 11/06/24	16	0	CI around median	31	200	Standard	No Exceedance
G314	LCU	E007	Chromium, total	mg/L	03/30/21 - 11/06/24	16	81	CI around median	0.0015	0.1	Standard	No Exceedance
G314	LCU	E007	Cobalt, total	mg/L	03/30/21 - 11/06/24	16	6	CI around mean	0.00309	0.006	Standard	No Exceedance
G314	LCU	E007	Fluoride, total	mg/L	03/30/21 - 11/06/24	16	75	CI around median	0.23	4.0	Standard	No Exceedance
G314	LCU	E007	Lead, total	mg/L	03/30/21 - 11/06/24	16	88	CI around median	0.001	0.0075	Standard	No Exceedance
G314	LCU	E007	Lithium, total	mg/L	03/30/21 - 11/06/24	16	62	CB around T-S line	0.0011	0.04	Standard	No Exceedance
G314	LCU	E007	Mercury, total	mg/L	03/30/21 - 11/06/24	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G314	LCU	E007	Molybdenum, total	mg/L	03/30/21 - 11/06/24	16	19	CB around linear reg	-0.00335	0.1	Standard	No Exceedance
G314	LCU	E007	pH (field)	SU	03/30/21 - 11/06/24	16	0	CB around T-S line	6.1/6.5	6.5/9.0	Standard/Standard	No Exceedance
G314	LCU	E007	Radium 226 + Radium 228, total	pCi/L	03/30/21 - 11/06/24	15	0	CI around geomean	0.582	5	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
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COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G314	LCU	E007	Selenium, total	mg/L	03/30/21 - 11/06/24	16	88	CI around median	0.001	0.05	Standard	No Exceedance
G314	LCU	E007	Sulfate, total	mg/L	03/30/21 - 11/06/24	16	0	CI around median	2,000	400	Standard	Exceedance
G314	LCU	E007	Thallium, total	mg/L	03/30/21 - 11/06/24	16	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G314	LCU	E007	Total Dissolved Solids	mg/L	03/30/21 - 11/06/24	16	0	CI around median	3,430	1,200	Standard	Exceedance
G314D	DA	E007	Antimony, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G314D	DA	E007	Arsenic, total	mg/L	03/30/21 - 11/04/24	13	38	CI around median	0.001	0.010	Standard	No Exceedance
G314D	DA	E007	Barium, total	mg/L	03/30/21 - 11/04/24	13	0	CB around T-S line	0.0217	2.0	Standard	No Exceedance
G314D	DA	E007	Beryllium, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G314D	DA	E007	Boron, total	mg/L	03/30/21 - 11/04/24	13	0	CI around mean	0.161	3.20	Background	No Exceedance
G314D	DA	E007	Cadmium, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G314D	DA	E007	Chloride, total	mg/L	03/30/21 - 11/04/24	12	0	CB around linear reg	-1.04	200	Standard	No Exceedance
G314D	DA	E007	Chromium, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G314D	DA	E007	Cobalt, total	mg/L	03/30/21 - 11/04/24	13	54	CI around median	0.002	0.006	Standard	No Exceedance
G314D	DA	E007	Fluoride, total	mg/L	03/30/21 - 11/04/24	12	8	CB around linear reg	0.255	4.0	Standard	No Exceedance
G314D	DA	E007	Lead, total	mg/L	03/30/21 - 11/04/24	13	85	CI around median	0.001	0.0075	Standard	No Exceedance
G314D	DA	E007	Lithium, total	mg/L	03/30/21 - 11/04/24	13	31	CB around linear reg	0.00861	0.04	Standard	No Exceedance
G314D	DA	E007	Mercury, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G314D	DA	E007	Molybdenum, total	mg/L	03/30/21 - 11/04/24	13	0	CB around linear reg	-0.00599	0.1	Standard	No Exceedance
G314D	DA	E007	pH (field)	SU	03/30/21 - 11/04/24	13	0	CB around linear reg	6.6/6.9	6.5/9.0	Standard/Standard	No Exceedance
G314D	DA	E007	Radium 226 + Radium 228, total	pCi/L	03/30/21 - 11/04/24	13	0	CI around geomean	1.31	5	Standard	No Exceedance
G314D	DA	E007	Selenium, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G314D	DA	E007	Sulfate, total	mg/L	03/30/21 - 11/04/24	12	0	CB around linear reg	962	400	Standard	Exceedance
G314D	DA	E007	Thallium, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G314D	DA	E007	Total Dissolved Solids	mg/L	03/30/21 - 11/04/24	12	0	CI around median	1,800	1,200	Standard	Exceedance
G315	UA	E007	Antimony, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G315	UA	E007	Arsenic, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.010	Standard	No Exceedance
G315	UA	E007	Barium, total	mg/L	03/30/21 - 11/04/24	16	0	CB around T-S line	0.00939	2.0	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G315	UA	E007	Beryllium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G315	UA	E007	Boron, total	mg/L	03/30/21 - 11/04/24	16	0	CI around median	1.2	3.20	Background	No Exceedance
G315	UA	E007	Cadmium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G315	UA	E007	Chloride, total	mg/L	03/30/21 - 11/04/24	16	0	CB around T-S line	-20.5	200	Standard	No Exceedance
G315	UA	E007	Chromium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G315	UA	E007	Cobalt, total	mg/L	03/30/21 - 11/04/24	16	94	CB around T-S line	0.0007	0.006	Standard	No Exceedance
G315	UA	E007	Fluoride, total	mg/L	03/30/21 - 11/04/24	16	12	CI around median	0.253	4.0	Standard	No Exceedance
G315	UA	E007	Lead, total	mg/L	03/30/21 - 11/04/24	16	94	CI around median	0.001	0.0075	Standard	No Exceedance
G315	UA	E007	Lithium, total	mg/L	03/30/21 - 11/04/24	16	62	CB around T-S line	0.000705	0.04	Standard	No Exceedance
G315	UA	E007	Mercury, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G315	UA	E007	Molybdenum, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G315	UA	E007	pH (field)	SU	03/30/21 - 11/04/24	16	0	CI around mean	6.7/6.9	6.5/9.0	Standard/Standard	No Exceedance
G315	UA	E007	Radium 226 + Radium 228, total	pCi/L	03/30/21 - 11/04/24	15	0	CI around mean	0.228	5	Standard	No Exceedance
G315	UA	E007	Selenium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G315	UA	E007	Sulfate, total	mg/L	03/30/21 - 11/04/24	16	0	CB around T-S line	295	400	Standard	No Exceedance
G315	UA	E007	Thallium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G315	UA	E007	Total Dissolved Solids	mg/L	03/30/21 - 11/04/24	16	0	CI around mean	1,080	1,200	Standard	No Exceedance
G316	LCU	E007	Antimony, total	mg/L	03/30/21 - 11/04/24	16	88	CB around T-S line	0.000309	0.006	Standard	No Exceedance
G316	LCU	E007	Arsenic, total	mg/L	03/30/21 - 11/04/24	16	0	CB around linear reg	0.00802	0.010	Standard	No Exceedance
G316	LCU	E007	Barium, total	mg/L	03/30/21 - 11/04/24	16	0	CB around linear reg	0.0685	2.0	Standard	No Exceedance
G316	LCU	E007	Beryllium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G316	LCU	E007	Boron, total	mg/L	03/30/21 - 11/04/24	16	0	CI around mean	0.38	3.20	Background	No Exceedance
G316	LCU	E007	Cadmium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G316	LCU	E007	Chloride, total	mg/L	03/30/21 - 11/04/24	16	0	CI around median	24	200	Standard	No Exceedance
G316	LCU	E007	Chromium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G316	LCU	E007	Cobalt, total	mg/L	03/30/21 - 11/04/24	16	0	CB around linear reg	0.0021	0.006	Standard	No Exceedance
G316	LCU	E007	Fluoride, total	mg/L	03/30/21 - 11/04/24	16	50	CI around median	0.25	4.0	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G316	LCU	E007	Lead, total	mg/L	03/30/21 - 11/04/24	16	94	CI around median	0.001	0.0075	Standard	No Exceedance
G316	LCU	E007	Lithium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.003	0.04	Standard	No Exceedance
G316	LCU	E007	Mercury, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G316	LCU	E007	Molybdenum, total	mg/L	03/30/21 - 11/04/24	16	0	CB around linear reg	0.00432	0.1	Standard	No Exceedance
G316	LCU	E007	pH (field)	SU	03/30/21 - 11/04/24	16	0	CI around mean	6.9/7.0	6.5/9.0	Standard/Standard	No Exceedance
G316	LCU	E007	Radium 226 + Radium 228, total	pCi/L	03/30/21 - 11/04/24	15	0	CI around geomean	0.374	5	Standard	No Exceedance
G316	LCU	E007	Selenium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G316	LCU	E007	Sulfate, total	mg/L	03/30/21 - 11/04/24	16	0	CI around median	662	400	Standard	Exceedance
G316	LCU	E007	Thallium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G316	LCU	E007	Total Dissolved Solids	mg/L	03/30/21 - 11/04/24	16	0	CI around median	1,470	1,200	Standard	Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Notes:

Compliance Result:

No Exceedance: the statistical result did not exceed the GWPS.

Exceedance: The statistical result exceeded the GWPS.

Throughout this document, “exceedance” or “exceedances” is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program which was submitted to the Illinois Environmental Protection Agency (IEPA) on October 25, 2021 as part of Illinois Power Generating Company’s (IPGC’s) operating permit application for the Ash Pond No. 1 . That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, IPGC has not identified any actual exceedances.

Events:

E007 = Quarter 4, 2024 sampling event

HSU = hydrostratigraphic unit:

DA = Deep Aquifer

LCU = Lower Confining Unit

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

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 T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

Statistical Result Code (if applicable):

NR¹ = Parameter not analyzed.

NS¹ = Well has been, or will be, abandoned; therefore, a sample was not collected.

NS² = Well either needs or was undergoing maintenance; therefore, a sample was not collected.

NS³ = The location was not accessible; therefore, a sample was not collected.

NS⁴ = The location could not be found; therefore, a sample was not collected.

NS⁵ = The location was damaged; therefore, a sample was not collected.

NS⁶ = Sampling pump could not yield a sample.

NS⁷ = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.

NS⁸ = A sample was not collected.

PM¹ = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.

For pH, the values presented are the lower / upper limits

GWPS Source:

Background = background concentration

Standard = standard specified in 35 I.A.C. § 845.600(a)(1)

FIGURES



	COMPLIANCE WELL		REGULATED UNIT (SUBJECT UNIT)
	BACKGROUND WELL		SITE FEATURE
	STAFF GAGE		LIMITS OF FINAL COVER
			PROPERTY BOUNDARY

0 200 400
Feet

MONITORING WELL LOCATION MAP

ASH POND NO. 1
COFFEEN POWER PLANT
COFFEEN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
GROUNDWATER ELEVATION DATA
QUARTER 4, 2024**

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
G281	Background	10/28/2024	9.11	617.59
G301	Compliance	10/28/2024	8.59	614.25
G302	Compliance	10/28/2024	13.44	606.81
G303	Compliance	10/28/2024	9.75	612.18
G305	Compliance	10/28/2024	10.06	615.78
G306	Background	10/28/2024	11.33	614.65
G307	Compliance	10/28/2024	DM ¹	
G307D	Compliance	10/28/2024	12.51	612.59
G308	Compliance	10/28/2024	6.65	618.06
G310	Compliance	10/28/2024	10.62	612.39
G312	Compliance	10/28/2024	Dry	
G313	Compliance	10/28/2024	3.32	611.09
G314	Compliance	10/28/2024	5.80	608.20
G314D	Compliance	10/28/2024	8.72	604.94
G315	Compliance	10/28/2024	4.62	619.02
G316	Compliance	10/28/2024	13.12	589.67
XSG-01	Water Level	10/28/2024	7.29	628.21
XSG-01	Water Level	10/29/2024	7.56	627.95
SG-02	Water Level	10/28/2024	6.21	599.55
SG-02	Water Level	10/29/2024	6.17	599.60
SG-03	Water Level	10/29/2024	9.72	576.21

Notes:
BMP = below measuring point
Depth to Groundwater/Groundwater Elevation Code (if applicable):
DM¹ = Depth to water was not measured.
DM² = Depth to water was not measured because water was above or below the staff gage markings.
DM³ = Depth to water was not measured because the location was inaccessible.
DM⁴ = Depth to water was not measured because water level was below the top of the pump.
DM⁵ = Depth to water was not measured because water level was above the top of casing (artesian well).
DM⁶ = Depth to water was not measured because of damage to the well.
DM⁷ = Depth to water was not measured due to required pressure transducer maintenance.
DM⁸ = Lab provided groundwater elevation data and not depth to water.
NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 4, 2024**

Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: AP2D
Sample ID: 001
Date (s): 11/7/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 57 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☒ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No	
Casing	Good		Protective Casing		X
Protective Casing	Good		Well		X
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 11/7/2024 12:30 Static Water Level: 20.48 feet below TOC
Total Depth: 35.43 feet below TOC
Water Column: 14.95 feet

Purging Activities

Purged By: BG Purge Date: 11/7/2024
Purge Method: Peristaltic Pump Well Diameter: 4"
Purge Volume Calculation (L): $14.954 \text{ ft.} \times 0.022 = 0.33 \text{ L} \times 3 \text{ Vol.} = 0.99 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: Slight Color: CLEAR

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:30	0.0	267	purge start time						
12:36	1.6	↓	6.85	1,786.70	15.40	1.48	5.40	4.73	
12:39	2.4		6.76	1,801.50	15.56	1.34	-9.70	5.78	
12:42	3.2		6.76	1,817.80	15.45	1.27	-25.20	6.89	
12:45	4.0		6.76	1,831.30	15.27	1.23	-35.70	6.65	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/7/2024 12:45
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.76 pH 1,831.30 Spec. Cond. 15.27 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 20.76 feet below TOC Drawdown: 0.28 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 11/7/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G1001
Sample ID: 002
Date (s): 11/7/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 56 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☒ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/7/2024 10:58 Static Water Level: 5.62 feet below TOC
Total Depth: 13.79 feet below TOC
Water Column: 8.17 feet

Purging Activities

Purged By: BG Purge Date: 11/7/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 8.17 ft. x 0.022 = 0.18 L x 3 Vol. = 0.54 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 2.50 L
Physical appearance of purge water: Clear Odor: Strong Color: CLEAR

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:58	0.0	125	purge start time						
11:03	0.6	↓	6.62	1,671.80	17.19	6.73	-77.90	17.46	
11:06	1.0		6.74	1,665.00	17.16	7.65	-78.30	17.12	
11:09	1.4		6.84	1,650.20	17.08	8.19	-77.20	19.03	
11:12	1.8		6.99	1,644.00	17.22	8.62	-82.90	23.70	
11:15	2.1		6.90	1,516.10	16.60	6.81	-75.20	32.28	
11:18	2.5		6.89	1,153.10	16.68	5.08	-62.50	23.99	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/7/2024 11:18
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.89 pH 1,153.10 Spec. Cond. 16.68 Temp
Field Filtered: No Filter Type:
Water Level: 5.73 feet below TOC Drawdown: 0.11 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan

Date: 11/7/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G1003
Sample ID: 003
Date (s): 11/7/2024

Field Team Members

Name: No member found on Data Tab Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 56 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☒ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad Good
Casing Good
Protective Casing Good
Reference Mark/Identification Yes

Locks
Protective Casing
Well

Yes	No
X	
	X

Groundwater Level Measurements

Date/Time Measured: 11/7/2024 11:44 Static Water Level: - feet below TOC
Total Depth: 11.15 feet below TOC
Water Column: #VALUE! feet

Purging Activities

Purged By: Purge Date:
Purge Method: Well Diameter: 2"
Purge Volume Calculation (L):
Actual Purge Volume (L):
Physical appearance of purge water: Odor: Color:

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
	0.0	-	purge start time						

Sampling Activities

Sampled By: Sample Date/Time:
Sample Method: Sample Equipment:
Sample Parameters: pH Spec. Cond. Temp
Field Filtered: Filter Type:
Water Level: feet below TOC Drawdown: feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: N/A
- Dry; no sample collected

Form Completed By:

Burt Lillie

Date: 11/7/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G101
Sample ID: 004
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

	Well Pad	Good	Locks	Yes	No
Casing		Good	Protective Casing	X	
Protective Casing		Good	Well		X
Reference Mark/Identification		Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 9:10 Static Water Level: 9.38 feet below TOC
Total Depth: 24.30 feet below TOC
Water Column: 14.92 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $14.92 \text{ ft.} \times 0.022 = 0.33 \text{ L} \times 3 \text{ Vol.} = 0.99 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:11	0.0	160	purge start time						
9:18	1.1	↓	7.15	843.40	15.73	3.52	127.40	36.14	
9:21	1.6		7.16	840.30	15.66	2.73	123.00	38.68	
9:24	2.1		7.16	837.90	15.64	2.31	118.70	44.02	
9:27	2.6		7.16	836.30	15.63	2.06	114.50	46.70	
9:30	3.0		7.16	836.10	15.62	1.89	110.30	42.62	
9:33	3.5		7.16	834.80	15.62	1.77	106.30	51.51	
9:36	4.0		7.16	834.20	15.63	1.69	102.30	49.55	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 9:36
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.16 pH 834.20 Spec. Cond. 15.63 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 9.45 feet below TOC Drawdown: 0.07 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

[Signature]

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G102
Sample ID: 005
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No	
Casing	Good		Protective Casing	X	
Protective Casing	Good		Well		X
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 9:39 Static Water Level: 9.31 feet below TOC
Total Depth: 20.00 feet below TOC
Water Column: 10.69 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $10.69 \text{ ft.} \times 0.022 = 0.24 \text{ L} \times 3 \text{ Vol.} = 0.72 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 3.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:41	0.0	194	purge start time						
9:53	2.3	↓	7.10	720.10	17.08	2.25	89.90	1.10	
9:56	2.9		7.09	716.70	17.08	2.13	88.40	0.77	
9:59	3.5		7.09	712.90	17.09	2.06	86.70	0.55	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 9:59
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.09 pH 712.90 Spec. Cond. 17.09 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 9.66 feet below TOC Drawdown: 0.35 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G103
Sample ID: 006
Date (s): 10/30/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: _____ Affiliation: _____

Weather Conditions

Temp: 76 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

	Well Pad	Good	Locks	Yes	No
Casing		Good	Protective Casing	X	
Protective Casing		Good	Well		X
Reference Mark/Identification		Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 11:41 Static Water Level: 14.35 feet below TOC
Total Depth: 26.90 feet below TOC
Water Column: 12.55 feet

Purging Activities

Purged By: JC Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 12.55 ft. x 0.022 = 0.28 L x 3 Vol. = 0.84 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:42	0.0	208	purge start time						
11:48	1.3	↓	7.16	845.50	17.98	3.15	25.80	7.71	
11:51	1.9		7.15	843.40	18.00	2.49	27.90	11.89	
11:54	2.5		7.14	841.30	18.08	2.12	28.90	18.86	
11:57	3.1		7.13	840.10	18.10	1.86	30.10	25.27	
12:00	3.8		7.13	839.80	18.10	1.69	30.90	34.75	
12:03	4.4		7.12	839.20	18.14	1.54	30.50	36.97	
12:06	5.0		7.12	839.60	18.14	1.42	28.90	43.36	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/30/2024 12:06
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.12 pH 839.60 Spec. Cond. 18.14 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 16.08 feet below TOC Drawdown: 1.73 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G105
Sample ID: 007
Date (s): 10/30/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: _____ Affiliation: _____

Weather Conditions

Temp: 77 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 12:08 Static Water Level: 12.42 feet below TOC
Total Depth: 27.70 feet below TOC
Water Column: 15.28 feet

Purging Activities

Purged By: JC Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 15.28 ft. x 0.022 = 0.34 L x 3 Vol. = 1.02 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:09	0.0	231	purge start time						
12:14	1.2	↓	7.41	757.60	18.47	4.20	34.70	31.53	
12:17	1.8		7.34	739.40	18.48	3.51	36.30	190.65	
12:20	2.5		7.32	736.40	18.58	3.21	36.90	322.92	
12:23	3.2		7.32	737.30	18.58	2.96	36.10	418.99	
12:26	3.9		7.32	738.80	18.59	2.74	35.20	491.98	
12:29	4.6		7.33	740.80	18.52	2.58	34.20	416.11	
12:32	5.3		7.34	740.70	18.54	2.44	33.10	270.58	
12:35	6.0		7.36	739.10	18.46	2.35	32.00	247.43	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/30/2024 12:35
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.36 pH 739.10 Spec. Cond. 18.46 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 13.82 feet below TOC Drawdown: 1.40 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G106
Sample ID: 008
Date (s): 10/30/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 79 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 13:14 Static Water Level: 13.62 feet below TOC
Total Depth: 25.60 feet below TOC
Water Column: 11.98 feet

Purging Activities

Purged By: JC Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 11.98 ft. x 0.022 = 0.26 L x 3 Vol. = 0.78 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:14	0.0	167	purge start time						
13:20	1.0	↓	7.06	836.40	18.94	4.16	-29.60	12.68	
13:23	1.5		7.06	838.50	19.44	3.45	-30.00	14.94	
13:26	2.0		7.05	837.50	19.58	3.19	-26.30	17.47	
13:29	2.5		7.05	837.60	19.53	3.05	-22.80	20.39	
13:32	3.0		7.05	836.60	19.57	2.98	-20.30	21.82	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/30/2024 13:32
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.05 pH 836.60 Spec. Cond. 19.57 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 16.24 feet below TOC Drawdown: 2.62 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G107
Sample ID: 009
Date (s): 10/30/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: _____ Affiliation: _____

Weather Conditions

Temp: 79 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 13:33 Static Water Level: 14.75 feet below TOC
Total Depth: 22.70 feet below TOC
Water Column: 7.95 feet

Purging Activities

Purged By: JC Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 7.95 ft. x 0.022 = 0.17 L x 3 Vol. = 0.51 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:34	0.0	250	purge start time						
13:37	0.8	↓	7.19	750.70	18.58	3.64	-4.20	15.28	
13:40	1.5		7.19	751.90	19.63	2.91	-1.60	15.77	
13:43	2.3		7.20	753.60	20.09	2.92	3.70	19.44	
13:46	3.0		7.19	752.50	20.04	2.88	7.50	18.55	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/30/2024 13:46
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.19 pH 752.50 Spec. Cond. 20.04 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 15.20 feet below TOC Drawdown: 0.45 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: _____

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G108
Sample ID: 010
Date (s): 10/29/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 68 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 9:17 Static Water Level: 14.35 feet below TOC
Total Depth: 26.60 feet below TOC
Water Column: 12.25 feet

Purging Activities

Purged By: JC Purge Date: 10/29/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $12.25 \text{ ft.} \times 0.022 = 0.27 \text{ L} \times 3 \text{ Vol.} = 0.81 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 7.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:18	0.0	269	purge start time						
9:23	1.4	↓	6.93	738.10	17.27	3.63	-34.40	16.06	
9:26	2.2		6.86	735.40	17.31	2.88	-12.30	24.03	
9:29	3.0		6.87	734.10	17.49	2.47	-0.60	32.85	
9:32	3.8		6.87	733.00	17.50	2.17	10.10	45.25	
9:35	4.6		6.87	732.40	17.49	1.93	17.80	55.50	
9:38	5.4		6.87	731.50	17.47	1.77	24.30	70.15	
9:41	6.2		6.87	730.90	17.47	1.65	29.00	73.24	
9:44	7.0		6.87	730.40	17.47	1.56	31.30	85.83	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/29/2024 9:44
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.87 pH 730.40 Spec. Cond. 17.47 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 16.30 feet below TOC Drawdown: 1.95 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G109
Sample ID: 011
Date (s): 10/29/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 68 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 9:48 Static Water Level: 14.53 feet below TOC
Total Depth: 26.30 feet below TOC
Water Column: 11.77 feet

Purging Activities

Purged By: JC Purge Date: 10/29/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $11.77 \text{ ft.} \times 0.022 = 0.26 \text{ L} \times 3 \text{ Vol.} = 0.78 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: Moderate Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:48	0.0	294	purge start time						
9:53	1.5	↓	6.84	920.70	17.32	2.69	-76.70	33.02	
9:56	2.4		6.85	920.90	17.46	1.90	-62.30	41.54	
9:59	3.2		6.85	920.90	17.46	1.58	-54.60	46.98	
10:02	4.1		6.84	920.20	17.50	1.41	-48.40	54.49	
10:05	5.0		6.84	919.40	17.43	1.30	-43.50	62.07	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/29/2024 10:05
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.84 pH 919.40 Spec. Cond. 17.43 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 15.31 feet below TOC Drawdown: 0.78 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:




Date: 10/29/2024

Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G110
Sample ID: 012
Date (s): 10/29/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 70 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 10:12 Static Water Level: 14.87 feet below TOC
Total Depth: 27.50 feet below TOC
Water Column: 12.63 feet

Purging Activities

Purged By: JC Purge Date: 10/29/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 12.63 ft. x 0.022 = 0.28 L x 3 Vol. = 0.84 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: Slight Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:12	0.0	190	purge start time						
10:18	1.1	↓	6.78	887.90	17.71	2.50	-28.60	54.23	
10:21	1.7		6.79	886.40	18.08	1.89	-24.90	26.10	
10:24	2.3		6.79	889.90	18.93	1.61	-21.90	24.79	
10:27	2.9		6.80	888.00	19.23	1.46	-19.70	34.90	
10:30	3.4		6.81	888.50	19.10	1.36	-22.80	28.52	
10:33	4.0		6.82	891.00	19.07	1.27	-23.60	24.36	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/29/2024 10:33
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.82 pH 891.00 Spec. Cond. 19.07 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 15.38 feet below TOC Drawdown: 0.51 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G111
Sample ID: 013
Date (s): 10/29/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 71 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 10:34 Static Water Level: 15.73 feet below TOC
Total Depth: 24.30 feet below TOC
Water Column: 8.57 feet

Purging Activities

Purged By: JC Purge Date: 10/29/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 8.57 ft. x 0.022 = 0.19 L x 3 Vol. = 0.57 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: Slight Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:34	0.0	227	purge start time						
10:41	1.6	↓	7.07	862.20	18.22	2.58	-26.50	0.19	
10:44	2.3		7.06	845.50	18.31	1.91	-10.00	0.69	
10:47	3.0		7.05	843.40	18.36	1.58	0.50	1.15	
10:50	3.6		7.05	843.20	18.40	1.39	6.30	1.78	
10:53	4.3		7.04	843.70	18.40	1.28	11.00	2.90	
10:56	5.0		7.04	843.40	18.42	1.18	14.50	4.66	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/29/2024 10:56
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.04 pH 843.40 Spec. Cond. 18.42 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 16.18 feet below TOC Drawdown: 0.45 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G119
Sample ID: 014
Date (s): 10/29/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 77 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 12:20 Static Water Level: 16.61 feet below TOC
Total Depth: 27.40 feet below TOC
Water Column: 10.79 feet

Purging Activities

Purged By: JC Purge Date: 10/29/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 10.79 ft. x 0.022 = 0.24 L x 3 Vol. = 0.72 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:21	0.0	231	purge start time						
12:26	1.2	↓	7.26	698.40	17.90	4.04	12.90	10.50	
12:29	1.9		7.24	702.00	18.03	3.34	16.30	11.69	
12:32	2.6		7.24	703.90	17.99	2.54	15.20	14.39	
12:35	3.2		7.23	704.00	17.96	2.10	14.30	17.65	
12:38	3.9		7.23	703.90	17.86	1.78	13.20	21.55	
12:41	4.6		7.23	702.80	17.89	1.59	13.40	26.76	
12:44	5.3		7.23	702.50	17.81	1.46	10.50	27.71	
12:47	6.0		7.23	701.40	17.87	1.36	7.00	32.40	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/29/2024 12:47
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.23 pH 701.40 Spec. Cond. 17.87 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 17.82 feet below TOC Drawdown: 1.21 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G120
Sample ID: 015
Date (s): 10/29/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 78 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 12:48 Static Water Level: 17.19 feet below TOC
Total Depth: 26.70 feet below TOC
Water Column: 9.51 feet

Purging Activities

Purged By: JC Purge Date: 10/29/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $9.51 \text{ ft.} \times 0.022 = 0.21 \text{ L} \times 3 \text{ Vol.} = 0.63 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:49	0.0	211	purge start time						
12:56	1.5	↓	7.08	864.70	18.18	5.16	62.30	19.09	
12:59	2.1		7.09	859.60	18.27	5.34	61.40	20.45	
13:02	2.7		7.08	858.30	18.34	5.59	62.50	23.64	
13:05	3.4		7.06	866.20	18.30	5.66	63.70	23.37	
13:08	4.0		7.06	867.70	18.31	5.63	61.10	23.74	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/29/2024 13:08
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.06 pH 867.70 Spec. Cond. 18.31 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 19.09 feet below TOC Drawdown: 1.90 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:


 TekLab Inc.
Environmental Laboratory

Date: 10/29/2024

Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G121
Sample ID: 016
Date (s): 10/29/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 79 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 13:08 Static Water Level: 19.81 feet below TOC
Total Depth: 29.10 feet below TOC
Water Column: 9.29 feet

Purging Activities

Purged By: JC Purge Date: 10/29/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $9.29 \text{ ft.} \times 0.022 = 0.2 \text{ L} \times 3 \text{ Vol.} = 0.6 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:10	0.0	225	purge start time						
13:15	1.2	↓	7.02	942.20	17.63	4.28	68.80	3.32	
13:18	1.8		7.01	942.70	17.69	3.44	67.10	2.84	
13:21	2.5		7.02	941.70	17.71	3.32	66.80	4.31	
13:24	3.2		6.99	950.10	17.79	3.93	68.50	5.49	
13:27	3.9		6.98	956.70	17.80	4.35	67.60	4.36	
13:30	4.5		6.98	955.30	17.80	4.36	65.50	3.18	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/29/2024 13:30
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.98 pH 955.30 Spec. Cond. 17.80 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 21.04 feet below TOC Drawdown: 1.23 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G122
Sample ID: 017
Date (s): 10/29/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 79 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 13:31 Static Water Level: 20.01 feet below TOC
Total Depth: 26.50 feet below TOC
Water Column: 6.49 feet

Purging Activities

Purged By: JC Purge Date: 10/29/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 6.49 ft. x 0.022 = 0.14 L x 3 Vol. = 0.42 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 9.00 L
Physical appearance of purge water: Cloudy Odor: None Color: lt brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:33	0.0	225	purge start time						
13:37	0.9	↓	6.96	1,127.10	17.25	4.34	77.40	120.96	
13:40	1.6		6.91	1,109.40	17.12	4.33	77.80	53.82	
13:43	2.2		6.89	1,105.50	17.89	4.15	75.40	44.46	
13:46	2.9		6.88	1,106.20	17.91	3.66	71.00	45.79	
13:49	3.6		6.87	1,106.70	17.72	3.15	69.30	40.97	
13:52	4.3		6.87	1,104.20	17.68	2.58	69.60	42.52	
13:55	4.9		6.88	1,101.70	17.76	2.13	69.10	50.37	
13:58	5.6		6.90	1,100.10	17.79	1.85	68.10	109.46	
14:01	6.3		6.92	1,107.70	17.71	1.59	66.70	105.99	
14:04	7.0		6.94	1,112.60	17.61	1.41	64.70	102.17	
14:07	7.6		6.95	1,115.20	17.64	1.29	62.80	102.55	
14:10	8.3		6.95	1,116.90	17.62	1.20	61.20	95.07	
14:13	9.0		6.96	1,113.80	17.60	1.14	60.00	91.69	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/29/2024 14:13
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.96 pH 1,113.80 Spec. Cond. 17.60 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: T.O.P. feet below TOC Drawdown: N/A feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:  Date: 10/29/2024

Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G123
Sample ID: 018
Date (s): 11/4/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Brett Gillihan Affiliation: TekLab, Inc.

Weather Conditions

Temp: 63 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☒ NW
Precipitation: ☐ None ☐ Light ☒ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	<u>Good</u>	Locks	<table><tr><td>Yes</td><td>No</td></tr><tr><td>X</td><td></td></tr></table>	Yes	No	X	
Yes	No						
X							
Casing	<u>Good</u>	Protective Casing	<table><tr><td></td><td></td></tr><tr><td></td><td>X</td></tr></table>				X
	X						
Protective Casing	<u>Good</u>	Well	<table><tr><td></td><td></td></tr><tr><td></td><td>X</td></tr></table>				X
	X						
Reference Mark/Identification	<u>Yes</u>						

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 13:10 Static Water Level: 17.94 feet below TOC
Total Depth: 30.90 feet below TOC
Water Column: 12.96 feet

Purging Activities

Purged By: TAC Purge Date: 11/4/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 12.96 ft. x 0.022 = 0.29 L x 3 Vol. = 0.87 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:10	0.0	207	purge start time						
13:24	2.9	↓	7.06	844.30	16.80	3.80	89.90	22.25	
13:27	3.5		7.04	854.40	16.72	3.12	87.20	14.26	
13:30	4.1		7.02	859.20	16.67	2.62	84.60	7.31	
13:33	4.8		7.01	860.30	16.67	2.29	82.00	7.55	
13:36	5.4		7.01	861.10	16.67	2.08	79.20	1.55	
13:39	6.0		7.01	861.30	16.68	1.93	76.30	1.96	

Sampling Activities

Sampled By: TAC Sample Date/Time: 11/4/2024 13:39
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 7.01 pH 861.30 Spec. Cond. 16.68 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 18.33 feet below TOC Drawdown: 0.39 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45720

Form Completed By: _____

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G124
Sample ID: 019
Date (s): 10/30/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 73 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 10:52 Static Water Level: 19.90 feet below TOC
Total Depth: 26.70 feet below TOC
Water Column: 6.80 feet

Purging Activities

Purged By: JC Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $6.8 \text{ ft.} \times 0.022 = 0.15 \text{ L} \times 3 \text{ Vol.} = 0.45 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:53	0.0	150	purge start time						
11:00	1.1	↓	7.11	869.70	17.83	3.78	38.10	28.85	
11:03	1.5		7.08	881.80	17.82	3.68	42.80	18.47	
11:06	2.0		7.08	889.20	17.85	3.54	45.50	11.51	
11:09	2.4		7.08	892.90	17.80	3.31	46.50	8.75	
11:12	2.9		7.09	891.70	17.81	3.04	46.40	8.41	
11:15	3.3		7.09	891.80	17.81	2.78	45.70	8.56	
11:18	3.8		7.09	894.90	17.75	2.56	44.90	7.76	
11:21	4.2		7.10	893.60	17.74	2.35	43.80	9.95	
11:24	4.7		7.11	889.00	17.75	2.15	42.40	10.67	
11:27	5.1		7.11	885.10	17.78	1.97	40.80	16.00	
11:30	5.6		7.12	883.40	17.74	1.82	39.30	13.03	
11:33	6.0		7.12	880.50	17.78	1.70	37.50	10.33	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/30/2024 11:33
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.12 pH 880.50 Spec. Cond. 17.78 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 21.55 feet below TOC Drawdown: 1.65 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: 

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G125
Sample ID: 020
Date (s): 11/6/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 59 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/6/2024 9:51 Static Water Level: 18.51 feet below TOC
Total Depth: 26.70 feet below TOC
Water Column: 8.19 feet

Purging Activities

Purged By: TAC Purge Date: 11/6/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): $8.19 \text{ ft.} \times 0.022 = 0.18 \text{ L} \times 3 \text{ Vol.} = 0.54 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:00	0.0	182	purge start time						
10:10	1.8	↓	7.22	813.60	16.47	3.56	96.30	12.02	
10:13	2.4		7.18	811.30	16.45	3.42	98.90	9.58	
10:16	2.9		7.16	810.80	16.38	3.29	98.70	8.28	
10:19	3.5		7.16	809.90	16.49	3.20	96.70	7.41	
10:22	4.0		7.16	808.50	16.37	3.06	94.50	6.35	

Sampling Activities

Sampled By: TAC Sample Date/Time: 11/6/2024 10:22
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 7.16 pH 808.50 Spec. Cond. 16.37 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 20.26 feet below TOC Drawdown: 1.75 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45720

Form Completed By:

Tracy Carroll

Date: 11/6/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G126
Sample ID: 021
Date (s): 10/29/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 73 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 10:57 Static Water Level: 11.94 feet below TOC
Total Depth: 20.40 feet below TOC
Water Column: 8.46 feet

Purging Activities

Purged By: JC Purge Date: 10/29/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 8.46 ft. x 0.022 = 0.19 L x 3 Vol. = 0.57 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.50 L
Physical appearance of purge water: Clear Odor: Moderate Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (μS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:58	0.0	250	purge start time						
11:03	1.3	↓	7.08	865.40	17.88	2.31	-117.20	8.73	
11:06	2.0		7.06	847.10	18.03	1.81	-94.70	15.57	
11:09	2.8		7.06	837.90	18.07	1.80	-76.30	17.83	
11:12	3.5		7.06	839.20	18.12	1.76	-67.40	19.30	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/29/2024 11:12
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.06 pH 839.20 Spec. Cond. 18.12 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 12.52 feet below TOC Drawdown: 0.58 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G151
Sample ID: 022
Date (s): 10/30/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: _____ Affiliation: _____

Weather Conditions

Temp: 66 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No	
Casing	Good		Protective Casing	X	
Protective Casing	Good			Well	
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 8:41 Static Water Level: 12.72 feet below TOC
Total Depth: 23.60 feet below TOC
Water Column: 10.88 feet

Purging Activities

Purged By: JC Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 10.88 ft. x 0.022 = 0.24 L x 3 Vol. = 0.72 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 9.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
8:41	0.0	257	purge start time						
8:50	2.2	↓	7.02	910.50	17.63	4.35	-146.40	11.63	
8:53	3.0		7.05	879.90	17.62	3.66	-123.50	16.97	
8:56	3.8		7.06	872.00	17.57	3.36	-105.90	31.67	
8:59	4.5		7.04	868.80	17.63	3.31	-91.70	50.97	
9:02	5.3		7.05	868.30	17.65	3.18	-84.80	78.09	
9:04	5.9		7.05	868.30	17.64	2.90	-81.30	103.53	
9:07	6.7		7.06	864.30	17.93	2.67	-76.50	108.44	
9:10	7.5		7.07	865.40	17.92	2.49	-72.80	126.88	
9:13	8.2		7.07	865.60	17.91	2.36	-68.50	126.06	
9:16	9.0		7.07	866.10	17.89	2.27	-65.90	123.63	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/30/2024 9:16
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.07 pH 866.10 Spec. Cond. 17.89 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 13.80 feet below TOC Drawdown: 1.08 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G152
Sample ID: 023
Date (s): 11/6/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 59 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/6/2024 11:01 Static Water Level: 11.31 feet below TOC
Total Depth: 22.00 feet below TOC
Water Column: 10.69 feet

Purging Activities

Purged By: TAC Purge Date: 11/6/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): $10.69 \text{ ft.} \times 0.022 = 0.24 \text{ L} \times 3 \text{ Vol.} = 0.72 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 6.50 L
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:01	0.0	224	purge start time						
11:18	3.8	↓	7.11	758.70	16.38	2.30	71.80	31.05	
11:21	4.5		7.12	752.20	16.37	2.25	67.30	26.79	
11:24	5.2		7.12	744.70	16.40	2.24	63.20	24.07	
11:27	5.8		7.13	736.00	16.39	2.30	60.20	23.97	
11:30	6.5		7.15	730.20	16.38	2.50	57.70	22.90	

Sampling Activities

Sampled By: TAC Sample Date/Time: 11/6/2024 11:30
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 7.15 pH 730.20 Spec. Cond. 16.38 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 15.34 feet below TOC Drawdown: 4.03 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45720

Form Completed By:

Tracy Carroll

Date: 11/6/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G153
Sample ID: 024
Date (s): 10/30/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 71 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 10:23 Static Water Level: 15.38 feet below TOC
Total Depth: 23.90 feet below TOC
Water Column: 8.52 feet

Purging Activities

Purged By: JC Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $8.52 \text{ ft.} \times 0.022 = 0.19 \text{ L} \times 3 \text{ Vol.} = 0.57 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 3.50 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:24	0.0	167	purge start time						
10:33	1.5	↓	6.70	3,843.50	17.69	2.28	-65.00	92.89	
10:36	2.0		6.71	3,771.20	17.71	1.85	-50.20	51.87	
10:39	2.5		6.73	3,745.90	17.69	1.68	-39.20	33.50	
10:42	3.0		6.74	3,735.20	17.70	1.61	-30.50	28.87	
10:45	3.5		6.74	3,728.60	17.73	1.60	-24.50	24.60	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/30/2024 10:45
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.74 pH 3,728.60 Spec. Cond. 17.73 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 16.55 feet below TOC Drawdown: 1.17 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G154
Sample ID: 025
Date (s): 10/30/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: _____ Affiliation: _____

Weather Conditions

Temp: 70 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 9:55 Static Water Level: 16.75 feet below TOC
Total Depth: 22.80 feet below TOC
Water Column: 6.05 feet

Purging Activities

Purged By: JC Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 6.05 ft. x 0.022 = 0.13 L x 3 Vol. = 0.39 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:57	0.0	167	purge start time						
10:09	2.0	↓	7.27	632.30	17.91	2.39	12.80	218.07	
10:12	2.5		7.28	632.40	17.90	2.25	12.30	106.83	
10:15	3.0		7.30	632.40	17.90	2.17	12.00	57.93	
10:18	3.5		7.31	631.70	17.97	2.12	11.70	45.48	
10:21	4.0		7.32	632.00	18.01	2.10	11.80	34.21	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/30/2024 10:21
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.32 pH 632.00 Spec. Cond. 18.01 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 16.89 feet below TOC Drawdown: 0.14 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: _____

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G155
Sample ID: 026
Date (s): 10/30/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 68 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 9:20 Static Water Level: 14.78 feet below TOC
Total Depth: 26.20 feet below TOC
Water Column: 11.42 feet

Purging Activities

Purged By: JC Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $11.42 \text{ ft.} \times 0.022 = 0.25 \text{ L} \times 3 \text{ Vol.} = 0.75 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:21	0.0	200	purge start time						
9:33	2.4	↓	7.06	998.10	18.42	2.15	-52.60	607.70	
9:36	3.0		7.08	972.70	18.42	2.34	-38.00	349.23	
9:39	3.6		7.10	960.30	18.44	2.45	-27.70	245.32	
9:42	4.2		7.11	949.60	18.44	2.54	-20.80	209.21	
9:45	4.8		7.12	942.50	18.45	2.64	-15.70	172.94	
9:48	5.4		7.13	938.30	18.47	2.63	-12.40	139.35	
9:51	6.0		7.13	935.80	18.48	2.52	-10.70	128.50	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/30/2024 9:51
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.13 pH 935.80 Spec. Cond. 18.48 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 17.04 feet below TOC Drawdown: 2.26 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G200
Sample ID: 027
Date (s): 10/29/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 77 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 12:05 Static Water Level: 6.22 feet below TOC
Total Depth: 20.70 feet below TOC
Water Column: 14.48 feet

Purging Activities

Purged By: BG Purge Date: 10/29/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): $14.48 \text{ ft.} \times 0.022 = 0.32 \text{ L} \times 3 \text{ Vol.} = 0.96 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 2.50 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:05	0.0	89	purge start time						
12:24	1.7	↓	6.98	804.80	21.22	3.44	-7.60	4.65	
12:27	2.0		6.90	813.30	21.29	2.51	-10.40	4.36	
12:30	2.3		6.88	815.40	21.26	2.06	-12.30	4.40	
12:33	2.5		6.87	815.70	21.42	1.87	-14.20	5.03	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/29/2024 12:33
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.87 pH 815.70 Spec. Cond. 21.42 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 6.33 feet below TOC Drawdown: 0.11 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G206
Sample ID: 028
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 64 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 13:53 Static Water Level: 16.00 feet below TOC
Total Depth: 26.30 feet below TOC
Water Column: 10.30 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $10.3 \text{ ft.} \times 0.022 = 0.23 \text{ L} \times 3 \text{ Vol.} = 0.69 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 3.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:54	0.0	194	purge start time						
13:57	0.6	↓	7.10	836.10	16.73	2.65	-178.80	1.81	
14:00	1.2		7.10	834.60	17.02	1.60	-191.50	2.68	
14:03	1.8		7.10	834.80	17.05	1.25	-199.80	4.46	
14:06	2.3		7.10	834.10	17.06	1.09	-205.00	7.28	
14:09	2.9		7.10	833.10	17.05	1.00	-208.10	13.44	
14:12	3.5		7.09	832.90	17.04	0.94	-209.30	14.75	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 14:12
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.09 pH 832.90 Spec. Cond. 17.04 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 17.20 feet below TOC Drawdown: 1.20 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G206D
Sample ID: 029
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 64 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 13:27 Static Water Level: 26.92 feet below TOC
Total Depth: 62.12 feet below TOC
Water Column: 35.20 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $35.2 \text{ ft.} \times 0.022 = 0.77 \text{ L} \times 3 \text{ Vol.} = 2.31 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:29	0.0	261	purge start time						
13:34	1.3	↓	7.19	918.10	15.66	3.14	-141.20	2.07	
13:37	2.1		7.23	915.80	15.50	2.11	-156.50	2.48	
13:40	2.9		7.26	913.70	15.49	1.66	-165.00	4.05	
13:43	3.7		7.27	913.10	15.45	1.40	-169.10	10.51	
13:46	4.4		7.28	911.70	15.45	1.24	-171.40	19.10	
13:49	5.2		7.28	910.50	15.43	1.14	-172.80	34.41	
13:52	6.0		7.28	909.90	15.45	1.06	-173.60	49.27	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 13:52
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.28 pH 909.90 Spec. Cond. 15.45 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 30.67 feet below TOC Drawdown: 3.75 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

[Signature]

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G207
Sample ID: 030
Date (s): 11/4/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Brett Gillihan Affiliation: TekLab, Inc.

Weather Conditions

Temp: 63 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☒ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 12:02 Static Water Level: 15.89 feet below TOC
Total Depth: 26.60 feet below TOC
Water Column: 10.71 feet

Purging Activities

Purged By: TAC Purge Date: 11/4/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 10.71 ft. x 0.022 = 0.24 L x 3 Vol. = 0.72 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:02	0.0	261	purge start time						
12:10	2.1	↓	7.19	564.50	17.03	2.76	108.00	14.53	
12:13	2.9		7.11	564.90	17.02	2.45	108.10	7.43	
12:16	3.7		7.04	566.00	17.01	2.28	107.10	2.42	
12:19	4.4		7.01	566.90	16.98	2.13	101.20	1.09	
12:22	5.2		6.98	566.60	16.94	1.99	87.60	1.94	
12:25	6.0		6.96	567.50	16.91	1.87	72.00	0.06	

Sampling Activities

Sampled By: TAC Sample Date/Time: 11/4/2024 12:25
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.96 pH 567.50 Spec. Cond. 16.91 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 19.58 feet below TOC Drawdown: 3.69 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45720

Form Completed By: Tracy Carroll

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G208
Sample ID: 031
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 64 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad Good
Casing Good
Protective Casing Good
Reference Mark/Identification Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 13:05

Static Water Level: 17.62 feet below TOC
Total Depth: 26.60 feet below TOC
Water Column: 8.98 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $8.98 \text{ ft.} \times 0.022 = 0.2 \text{ L} \times 3 \text{ Vol.} = 0.6 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 3.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:06	0.0	250	purge start time						
13:11	1.3	↓	7.24	538.50	17.07	3.60	-4.50	3.96	
13:14	2.0		7.21	537.10	17.02	2.67	3.20	7.90	
13:17	2.8		7.20	534.50	17.00	2.77	11.10	14.23	
13:20	3.5		7.21	533.80	17.00	2.75	16.30	19.23	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 13:20
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.21 pH 533.80 Spec. Cond. 17.00 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 18.81 feet below TOC Drawdown: 1.19 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G209
Sample ID: 032
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 64 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 12:44 Static Water Level: 15.20 feet below TOC
Total Depth: 25.50 feet below TOC
Water Column: 10.30 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $10.3 \text{ ft.} \times 0.022 = 0.23 \text{ L} \times 3 \text{ Vol.} = 0.69 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 3.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:44	0.0	175	purge start time						
12:49	0.9	↓	6.86	1,192.20	17.04	2.82	-83.50	4.76	
12:52	1.4		6.87	1,192.40	16.97	1.78	-85.20	7.40	
12:55	2.0		6.86	1,191.20	16.89	1.40	-84.90	6.86	
12:58	2.5		6.85	1,191.10	16.82	1.22	-85.30	6.09	
13:01	3.0		6.85	1,191.00	16.83	1.11	-86.30	5.49	
13:04	3.5		6.85	1,191.20	16.83	1.04	-86.10	5.81	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 13:04
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.85 pH 1,191.20 Spec. Cond. 16.83 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 16.44 feet below TOC Drawdown: 1.24 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G210
Sample ID: 033
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 65 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 12:15 Static Water Level: 15.22 feet below TOC
Total Depth: 25.00 feet below TOC
Water Column: 9.78 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $9.78 \text{ ft.} \times 0.022 = 0.22 \text{ L} \times 3 \text{ Vol.} = 0.66 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:16	0.0	160	purge start time						
12:23	1.1	↓	7.16	826.40	16.91	3.04	-45.70	24.94	
12:26	1.6		7.15	829.40	16.86	2.08	-49.40	18.36	
12:29	2.1		7.15	829.30	16.82	1.65	-51.00	15.86	
12:32	2.6		7.15	829.00	16.85	1.43	-56.60	11.90	
12:35	3.0		7.14	828.90	16.85	1.29	-62.60	9.09	
12:38	3.5		7.14	828.70	16.85	1.19	-67.70	8.23	
12:41	4.0		7.14	829.10	16.85	1.12	-71.30	7.03	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 12:41
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.14 pH 829.10 Spec. Cond. 16.85 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 15.48 feet below TOC Drawdown: 0.26 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G211
Sample ID: 034
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 66 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 11:47 Static Water Level: 15.40 feet below TOC
Total Depth: 26.30 feet below TOC
Water Column: 10.90 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $10.9 \text{ ft.} \times 0.022 = 0.24 \text{ L} \times 3 \text{ Vol.} = 0.72 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:48	0.0	222	purge start time						
11:54	1.3	↓	7.13	779.30	16.83	2.40	-35.20	67.36	
11:57	2.0		7.13	776.40	16.86	1.75	-24.80	35.60	
12:00	2.7		7.13	774.90	16.91	1.49	-17.20	28.73	
12:03	3.3		7.13	774.60	16.91	1.37	-11.00	25.45	
12:06	4.0		7.13	774.20	16.89	1.31	-6.00	23.86	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 12:06
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.13 pH 774.20 Spec. Cond. 16.89 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 16.45 feet below TOC Drawdown: 1.05 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:




Date: 10/31/2024

Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G212
Sample ID: 035
Date (s): 10/31/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☒ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 10:41 Static Water Level: 17.14 feet below TOC
Total Depth: 82.00 feet below TOC
Water Column: 64.86 feet

Purging Activities

Purged By: BG Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $64.86 \text{ ft.} \times 0.022 = 1.43 \text{ L} \times 3 \text{ Vol.} = 4.29 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:41	0.0	208	purge start time						
10:50	1.9	↓	6.70	642.60	16.86	0.80	14.40	85.65	
10:53	2.5		6.70	643.40	16.82	0.71	14.00	89.39	
10:56	3.1		6.71	644.40	16.78	0.65	13.60	92.80	
10:59	3.7		6.72	645.90	16.75	0.63	13.30	97.98	
11:02	4.4		6.72	646.80	16.75	0.61	13.10	103.96	
11:05	5.0		6.73	647.30	16.72	0.59	12.90	103.95	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/31/2024 11:05
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.73 pH 647.30 Spec. Cond. 16.72 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 16.43 feet below TOC Drawdown: -0.71 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G213
Sample ID: 036
Date (s): 10/31/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☒ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 11:15 Static Water Level: 16.61 feet below TOC
Total Depth: 82.00 feet below TOC
Water Column: 65.39 feet

Purging Activities

Purged By: BG Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $65.39 \text{ ft.} \times 0.022 = 1.44 \text{ L} \times 3 \text{ Vol.} = 4.32 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:15	0.0	227	purge start time						
11:22	1.6	↓	6.67	620.80	16.63	0.79	18.20	91.30	
11:25	2.3		6.66	621.90	16.65	0.66	18.90	93.63	
11:28	3.0		6.66	623.10	16.62	0.61	20.00	100.46	
11:31	3.6		6.66	624.20	16.59	0.58	21.10	126.38	
11:34	4.3		6.67	625.80	16.58	0.56	22.60	137.98	
11:37	5.0		6.67	626.90	16.56	0.54	23.90	164.43	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/31/2024 11:37
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.67 pH 626.90 Spec. Cond. 16.56 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 16.98 feet below TOC Drawdown: 0.37 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G214
Sample ID: 037
Date (s): 10/31/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☒ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 11:48 Static Water Level: 18.68 feet below TOC
Total Depth: 26.50 feet below TOC
Water Column: 7.82 feet

Purging Activities

Purged By: BG Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $7.82 \text{ ft.} \times 0.022 = 0.17 \text{ L} \times 3 \text{ Vol.} = 0.51 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.50 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:48	0.0	393	purge start time						
11:50	0.8	↓	6.83	981.50	16.64	5.28	55.80	5.77	
11:53	2.0		6.69	992.30	16.86	1.74	49.10	8.05	
11:56	3.1		6.67	960.20	16.88	1.03	45.40	10.24	
11:59	4.3		6.67	951.20	16.92	0.97	43.60	11.29	
12:02	5.5		6.67	947.80	16.99	0.99	42.80	11.97	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/31/2024 12:02
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.67 pH 947.80 Spec. Cond. 16.99 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 19.63 feet below TOC Drawdown: 0.95 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G215
Sample ID: 038
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 11:18 Static Water Level: 18.00 feet below TOC
Total Depth: 26.90 feet below TOC
Water Column: 8.90 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $8.9 \text{ ft.} \times 0.022 = 0.2 \text{ L} \times 3 \text{ Vol.} = 0.6 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:19	0.0	205	purge start time						
11:26	1.4	↓	6.79	1,730.40	16.62	2.19	-30.20	55.81	
11:29	2.0		6.79	1,729.00	16.60	1.78	-31.60	55.75	
11:32	2.7		6.79	1,728.70	16.51	1.56	-32.90	59.96	
11:35	3.3		6.79	1,727.40	16.49	1.43	-33.90	71.14	
11:38	3.9		6.79	1,727.10	16.49	1.34	-34.80	49.56	
11:41	4.5		6.79	1,727.60	16.48	1.28	-35.50	64.51	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 11:41
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.79 pH 1,727.60 Spec. Cond. 16.48 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 18.45 feet below TOC Drawdown: 0.45 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G216
Sample ID: 039
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 10:54 Static Water Level: 17.43 feet below TOC
Total Depth: 28.50 feet below TOC
Water Column: 11.07 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $11.07 \text{ ft.} \times 0.022 = 0.24 \text{ L} \times 3 \text{ Vol.} = 0.72 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:55	0.0	190	purge start time						
11:04	1.7	↓	6.82	2,157.30	16.35	2.38	-80.10	17.52	
11:07	2.3		6.81	2,158.80	16.35	2.16	-76.90	17.06	
11:10	2.9		6.81	2,158.60	16.34	2.06	-78.00	45.31	
11:13	3.4		6.81	2,156.80	16.35	1.94	-77.70	20.76	
11:16	4.0		6.82	2,158.90	16.38	1.93	-77.10	27.60	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 11:16
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.82 pH 2,158.90 Spec. Cond. 16.38 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 18.25 feet below TOC Drawdown: 0.82 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G217
Sample ID: 040
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 10:27 Static Water Level: 18.86 feet below TOC
Total Depth: 28.40 feet below TOC
Water Column: 9.54 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $9.54 \text{ ft.} \times 0.022 = 0.21 \text{ L} \times 3 \text{ Vol.} = 0.63 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:28	0.0	200	purge start time						
10:35	1.4	↓	6.73	1,702.90	16.33	2.58	-88.70	5.01	
10:38	2.0		6.73	1,694.60	16.33	1.96	-87.40	19.91	
10:41	2.6		6.73	1,690.30	16.31	1.63	-86.40	29.89	
10:44	3.2		6.73	1,687.40	16.28	1.42	-86.00	38.38	
10:47	3.8		6.73	1,685.90	16.30	1.28	-87.80	62.74	
10:50	4.4		6.73	1,689.90	16.28	1.18	-89.00	58.01	
10:53	5.0		6.73	1,689.50	16.28	1.12	-89.90	72.85	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 10:53
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.73 pH 1,689.50 Spec. Cond. 16.28 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 19.10 feet below TOC Drawdown: 0.24 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

[Signature]

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G218
Sample ID: 041
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 10:02 Static Water Level: 17.05 feet below TOC
Total Depth: 28.50 feet below TOC
Water Column: 11.45 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 11.45 ft. x 0.022 = 0.25 L x 3 Vol. = 0.75 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:03	0.0	182	purge start time						
10:10	1.3	↓	6.69	1,672.90	16.37	2.54	-136.40	20.50	
10:13	1.8		6.70	1,677.80	16.32	1.84	-142.70	15.51	
10:16	2.4		6.70	1,688.90	16.27	1.54	-145.10	15.11	
10:19	2.9		6.71	1,696.50	16.25	1.36	-145.00	14.75	
10:22	3.5		6.71	1,700.70	16.24	1.24	-148.40	16.50	
10:25	4.0		6.72	1,702.20	16.23	1.16	-149.40	20.31	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 10:25
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.72 pH 1,702.20 Spec. Cond. 16.23 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 17.48 feet below TOC Drawdown: 0.43 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G219
Sample ID: 042
Date (s): 10/31/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☒ NE
☐ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 9:55 Static Water Level: 9.04 feet below TOC
Total Depth: 18.51 feet below TOC
Water Column: 9.47 feet

Purging Activities

Purged By: BG Purge Date: 10/31/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): $9.47 \text{ ft.} \times 0.022 = 0.21 \text{ L} \times 3 \text{ Vol.} = 0.63 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:55	0.0	167	purge start time						
10:07	2.0	↓	6.63	757.20	16.14	4.92	-80.00	15.39	
10:10	2.5		6.65	755.30	16.17	4.94	-65.80	12.80	
10:13	3.0		6.66	755.60	16.19	4.96	-54.70	10.79	
10:16	3.5		6.68	756.00	16.19	4.96	-46.40	8.11	
10:19	4.0		6.69	757.20	16.21	4.95	-40.40	7.05	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/31/2024 10:19
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.69 pH 757.20 Spec. Cond. 16.21 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 9.23 feet below TOC Drawdown: 0.19 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G220
Sample ID: 043
Date (s): 10/29/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 78 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 12:47 Static Water Level: 13.64 feet below TOC
Total Depth: 27.52 feet below TOC
Water Column: 13.88 feet

Purging Activities

Purged By: BG Purge Date: 10/29/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 13.88 ft. x 0.022 = 0.31 L x 3 Vol. = 0.93 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 3.00 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:47	0.0	143	purge start time						
12:59	1.7	↓	6.73	1,165.20	18.61	1.64	13.10	22.71	
13:02	2.1		6.71	1,169.50	18.60	1.54	16.00	27.11	
13:05	2.6		6.70	1,169.50	18.54	1.44	22.80	32.15	
13:08	3.0		6.69	1,169.80	18.62	1.36	30.80	38.23	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/30/2024 13:08
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.69 pH 1,169.80 Spec. Cond. 18.62 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 13.73 feet below TOC Drawdown: 0.09 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G270
Sample ID: 044
Date (s): 10/29/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 79 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 13:40 Static Water Level: 11.10 feet below TOC
Total Depth: 20.40 feet below TOC
Water Column: 9.30 feet

Purging Activities

Purged By: BG Purge Date: 10/29/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 9.3 ft. x 0.022 = 0.2 L x 3 Vol. = 0.6 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.50 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:40	0.0	310	purge start time						
13:49	2.8	↓	6.84	648.40	16.63	1.81	-73.90	14.00	
13:52	3.8		6.81	646.80	16.78	1.58	-61.40	77.38	
13:55	4.7		6.80	647.50	16.74	1.64	-56.70	40.11	
13:58	5.6		6.79	647.20	16.76	1.43	-51.60	7.30	
14:01	6.5		6.79	647.40	16.75	1.47	-47.10	11.02	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/29/2024 14:01
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.79 pH 647.40 Spec. Cond. 16.75 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 11.73 feet below TOC Drawdown: 0.63 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G271
Sample ID: 045
Date (s): 10/31/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 64 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☒ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No	
Casing	Good		Protective Casing	X	
Protective Casing	Good		Well		X
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 14:05 Static Water Level: 12.47 feet below TOC
Total Depth: 18.70 feet below TOC
Water Column: 6.23 feet

Purging Activities

Purged By: BG Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $6.23 \text{ ft.} \times 0.022 = 0.14 \text{ L} \times 3 \text{ Vol.} = 0.42 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (μS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
14:05	0.0	400	purge start time						
14:11	2.4	↓	7.01	792.40	17.56	5.48	52.00	76.94	
14:14	3.6		6.97	806.10	17.59	5.33	56.90	73.54	
14:17	4.8		6.92	829.50	17.54	4.60	60.50	72.97	
14:20	6.0		6.89	847.30	17.54	4.05	63.10	72.87	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/31/2024 14:20
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.89 pH 847.30 Spec. Cond. 17.54 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 12.87 feet below TOC Drawdown: 0.40 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G272
Sample ID: 046
Date (s): 10/31/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 64 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☒ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 13:32 Static Water Level: 11.96 feet below TOC
Total Depth: 17.40 feet below TOC
Water Column: 5.44 feet

Purging Activities

Purged By: BG Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 5.44 ft. x 0.022 = 0.12 L x 3 Vol. = 0.36 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:32	0.0	227	purge start time						
13:36	0.9	↓	6.91	1,084.20	17.60	2.67	14.80	32.99	
13:39	1.6		6.91	1,077.30	17.70	2.77	22.30	82.64	
13:42	2.3		6.90	1,088.10	17.70	2.60	27.60	18.97	
13:45	3.0		6.87	1,144.70	17.67	2.21	31.80	16.77	
13:48	3.6		6.85	1,187.60	17.68	1.86	35.20	11.63	
13:51	4.3		6.83	1,230.10	17.72	1.75	37.90	9.52	
13:54	5.0		6.82	1,257.90	17.76	1.60	40.10	9.49	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/31/2024 13:54
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.82 pH 1,257.90 Spec. Cond. 17.76 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 12.54 feet below TOC Drawdown: 0.58 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G273
Sample ID: 047
Date (s): 10/31/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 64 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 12:55 Static Water Level: 12.14 feet below TOC
Total Depth: 18.90 feet below TOC
Water Column: 6.76 feet

Purging Activities

Purged By: BG Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 6.76 ft. x 0.022 = 0.15 L x 3 Vol. = 0.45 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:55	0.0	207	purge start time						
13:06	2.3	↓	6.71	1,346.10	17.42	0.72	-28.40	130.67	
13:09	2.9		6.70	1,350.70	17.53	0.76	-23.80	132.53	
13:12	3.5		6.70	1,358.00	17.58	0.72	-20.90	132.70	
13:15	4.1		6.70	1,361.90	17.59	0.65	-23.00	139.17	
13:18	4.8		6.70	1,363.00	17.63	0.62	-25.30	141.96	
13:21	5.4		6.69	1,364.30	17.62	0.61	-25.80	141.42	
13:24	6.0		6.69	1,365.00	17.60	0.59	-25.10	142.39	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/31/2024 13:24
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.69 pH 1,365.00 Spec. Cond. 17.60 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 12.43 feet below TOC Drawdown: 0.29 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G274
Sample ID: 048
Date (s): 10/30/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 9:04 Static Water Level: 15.24 feet below TOC
Total Depth: 20.40 feet below TOC
Water Column: 5.16 feet

Purging Activities

Purged By: BG Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $5.16 \text{ ft.} \times 0.022 = 0.11 \text{ L} \times 3 \text{ Vol.} = 0.33 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:04	0.0	308	purge start time						
9:08	1.2	↓	6.63	976.20	18.22	3.73	44.00	7.68	
9:11	2.2		6.57	930.60	17.62	1.75	-8.50	8.07	
9:14	3.1		6.57	948.10	17.62	1.23	-50.40	9.99	
9:17	4.0		6.59	982.10	17.57	0.98	-61.90	8.13	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/30/2024 9:17
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.59 pH 982.10 Spec. Cond. 17.57 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 15.69 feet below TOC Drawdown: 0.45 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G275
Sample ID: 049
Date (s): 10/30/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 69 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No	
Casing	Good		Protective Casing	X	
Protective Casing	Good		Well		X
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 9:55 Static Water Level: 13.30 feet below TOC
Total Depth: 15.30 feet below TOC
Water Column: 2.00 feet

Purging Activities

Purged By: BG Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $2 \text{ ft.} \times 0.022 = 0.04 \text{ L} \times 3 \text{ Vol.} = 0.12 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 1.50 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:55	0.0	167	purge start time						
9:55	0.0	↓	6.82	1,197.40	18.32	4.19	2.20	226.08	
9:58	0.5		6.67	1,233.40	18.92	2.00	-1.70	14.08	
10:01	1.0		6.63	1,246.80	19.10	1.16	-2.30	8.25	
10:04	1.5		6.61	1,247.80	19.25	0.93	4.70	7.30	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/30/2024 10:04
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.61 pH 1,247.80 Spec. Cond. 19.25 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: Under pump feet below TOC Drawdown: N/A feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G275D
Sample ID: 050
Date (s): 10/30/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 69 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No	
Casing	Good		Protective Casing	X	
Protective Casing	Good		Well		X
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 9:30 Static Water Level: 38.09 feet below TOC
Total Depth: 62.70 feet below TOC
Water Column: 24.61 feet

Purging Activities

Purged By: BG Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $24.61 \text{ ft.} \times 0.022 = 0.54 \text{ L} \times 3 \text{ Vol.} = 1.62 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 3.50 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Lt Gray

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:30	0.0	292	purge start time						
9:33	0.9	↓	7.08	1,310.90	18.19	6.29	-3.90	6.41	
9:36	1.8		6.84	1,365.90	16.89	2.42	-135.90	4.89	
9:39	2.7		6.82	1,366.50	16.80	2.36	-141.20	6.27	
9:42	3.5		6.84	1,363.10	17.28	2.44	-144.20	7.49	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/30/2024 9:42
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.84 pH 1,363.10 Spec. Cond. 17.28 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 38.73 feet below TOC Drawdown: 0.64 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G276
Sample ID: 051
Date (s): 11/4/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Brett Gillihan Affiliation: TekLab, Inc.

Weather Conditions

Temp: 62 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☒ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 10:50 Static Water Level: 28.33 feet below TOC
Total Depth: 30.90 feet below TOC
Water Column: 2.57 feet

Purging Activities

Purged By: TAC Purge Date: 11/4/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 2.57 ft. x 0.022 = 0.06 L x 3 Vol. = 0.18 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.00 L
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:55	0.0	97	purge start time						
11:11	1.5	↓	6.77	1,217.50	17.36	4.42	112.00	0.97	
11:14	1.8		6.76	1,215.20	17.33	4.18	111.90	0.35	
11:17	2.1		6.76	1,214.20	17.30	3.94	111.40	-0.10	
11:20	2.4		6.76	1,212.20	17.29	3.76	110.90	-0.33	
11:23	2.7		6.76	1,209.50	17.30	3.64	110.40	-0.46	
11:26	3.0		6.77	1,207.60	17.26	3.55	109.90	-0.60	

Sampling Activities

Sampled By: TAC Sample Date/Time: 11/4/2024 11:26
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.77 pH 1,207.60 Spec. Cond. 17.26 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 29.30 feet below TOC Drawdown: 0.97 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45720
- Well went dry during sampling, partial kit collected

Form Completed By: Tracy Carroll

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G277
Sample ID: 052
Date (s): 11/4/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Brett Gillihan Affiliation: TekLab, Inc.

Weather Conditions

Temp: 62 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☒ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad Good
Casing Good
Protective Casing Good
Reference Mark/Identification Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 10:45

Static Water Level: T.O.P. feet below TOC
Total Depth: 22.30 feet below TOC
Water Column: N/A feet

Purging Activities

Purged By: TC Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 0.25 L
Physical appearance of purge water: Odor: Color:

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:45	0.0		purge start time						

Sampling Activities

Sampled By: TAC Sample Date/Time:
Sample Method: Bladder Pump
Sample Parameters: pH Spec. Cond. Temp
Field Filtered: Filter Type:
Water Level: feet below TOC Drawdown: feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: N/A
- Dry; no sample collected

Form Completed By:

Tracy Carroll

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G278
Sample ID: 053
Date (s): 10/30/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 73 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 10:35 Static Water Level: 24.61 feet below TOC
Total Depth: 26.40 feet below TOC
Water Column: 1.79 feet

Purging Activities

Purged By: BG Purge Date: 10/30/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): $1.79 \text{ ft.} \times 0.022 = 0.04 \text{ L} \times 3 \text{ Vol.} = 0.12 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 2.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: yellow

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:35	0.0	83	purge start time						
10:47	1.0	↓	6.67	5,196.80	21.48	6.00	77.50	5.28	
10:50	1.3		6.69	5,002.30	21.95	6.37	81.60	8.48	
10:53	1.5		6.71	5,222.90	18.40	5.43	83.60	91.41	
10:56	1.7		6.61	5,106.40	18.89	4.57	91.60	184.78	
10:59	2.0		6.59	5,089.20	19.56	4.61	96.10	157.58	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/30/2024 10:59
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.59 pH 5,089.20 Spec. Cond. 19.56 Temp
Field Filtered: Yes Filter Type:
Water Level: 25.86 feet below TOC Drawdown: 1.25 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G279
Sample ID: 054
Date (s): 10/30/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 74 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 11:07 Static Water Level: 24.57 feet below TOC
Total Depth: 30.80 feet below TOC
Water Column: 6.23 feet

Purging Activities

Purged By: BG Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 6.23 ft. x 0.022 = 0.14 L x 3 Vol. = 0.42 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.50 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:07	0.0	321	purge start time						
11:12	1.6	↓	6.65	4,218.90	18.43	1.28	101.30	20.71	
11:15	2.6		6.51	5,600.20	18.49	0.78	114.10	6.94	
11:18	3.5		6.50	5,783.30	18.44	0.63	117.80	6.01	
11:21	4.5		6.49	5,889.70	18.43	0.57	122.90	4.31	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/30/2024 11:21
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.49 pH 5,889.70 Spec. Cond. 18.43 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 25.61 feet below TOC Drawdown: 1.04 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G280
Sample ID: 055
Date (s): 10/30/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 77 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No	
Casing	Good		Protective Casing	X	
Protective Casing	Good		Well		X
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 11:55 Static Water Level: 7.83 feet below TOC
Total Depth: 20.20 feet below TOC
Water Column: 12.37 feet

Purging Activities

Purged By: BG Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $12.37 \text{ ft.} \times 0.022 = 0.27 \text{ L} \times 3 \text{ Vol.} = 0.81 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (μS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:55	0.0	316	purge start time						
12:05	3.2	↓	7.18	796.10	19.27	0.74	-14.70	69.22	
12:08	4.1		7.15	794.30	19.18	0.65	-4.70	78.69	
12:11	5.1		7.13	792.50	19.24	0.61	1.40	87.36	
12:14	6.0		7.11	791.10	19.23	0.58	6.00	99.39	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/30/2024 12:14
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.11 pH 791.10 Spec. Cond. 19.23 Temp
Field Filtered: Yes Filter Type:
Water Level: 8.21 feet below TOC Drawdown: 0.38 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G281
Sample ID: 056
Date (s): 10/30/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 79 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 14:00 Static Water Level: 9.39 feet below TOC
Total Depth: 22.80 feet below TOC
Water Column: 13.41 feet

Purging Activities

Purged By: JC Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $13.41 \text{ ft.} \times 0.022 = 0.3 \text{ L} \times 3 \text{ Vol.} = 0.9 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
14:03	0.0	227	purge start time						
14:07	0.9	↓	6.97	1,312.90	18.24	3.37	6.20	9.55	
14:10	1.6		6.98	1,307.40	18.07	2.20	1.40	25.72	
14:13	2.3		6.98	1,309.30	18.08	1.69	-1.80	27.03	
14:16	3.0		6.99	1,310.10	18.00	1.43	-4.80	33.68	
14:19	3.6		6.99	1,311.50	17.94	1.26	-8.10	41.55	
14:22	4.3		6.99	1,310.50	17.97	1.15	-11.40	53.64	
14:25	5.0		6.98	1,310.70	17.93	1.07	-13.80	58.28	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/30/2024 14:25
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.98 pH 1,310.70 Spec. Cond. 17.93 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 9.48 feet below TOC Drawdown: 0.09 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G283
Sample ID: 057
Date (s): 11/7/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 49 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/7/2024 11:48 Static Water Level: 2.83 feet below TOC
Total Depth: 20.80 feet below TOC
Water Column: 17.97 feet

Purging Activities

Purged By: BG Purge Date: 11/7/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $17.97 \text{ ft.} \times 0.022 = 0.4 \text{ L} \times 3 \text{ Vol.} = 1.2 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.50 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:48	0.0	196	purge start time						
11:59	2.2	↓	6.89	1,232.30	16.78	1.17	-0.70	12.47	
12:02	2.7		6.84	1,230.00	16.81	0.92	-8.10	10.49	
12:05	3.3		6.83	1,227.90	16.56	0.79	-15.20	14.17	
12:08	3.9		6.83	1,228.80	16.67	0.74	-19.90	12.59	
12:11	4.5		6.82	1,229.70	16.74	0.70	-23.10	12.36	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/7/2024 12:11
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.82 pH 1,229.70 Spec. Cond. 16.74 Temp
Field Filtered: Yes Filter Type:
Water Level: 3.16 feet below TOC Drawdown: 0.33 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 11/7/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G284
Sample ID: 058
Date (s): 10/31/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 65 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 12:17 Static Water Level: 12.03 feet below TOC
Total Depth: 16.30 feet below TOC
Water Column: 4.27 feet

Purging Activities

Purged By: BG Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $4.27 \text{ ft.} \times 0.022 = 0.09 \text{ L} \times 3 \text{ Vol.} = 0.27 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 3.00 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:17	0.0	167	purge start time						
12:20	0.5	↓	6.94	652.80	17.79	3.71	45.80	39.43	
12:23	1.0		6.88	622.20	17.91	4.68	54.60	31.11	
12:26	1.5		6.85	637.60	18.02	4.48	59.20	25.82	
12:29	2.0		6.82	671.20	18.04	3.54	61.50	24.21	
12:32	2.5		6.80	691.00	18.03	2.79	62.50	27.41	
12:35	3.0		6.79	700.50	18.04	2.30	62.90	25.68	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/31/2024 12:35
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.79 pH 700.50 Spec. Cond. 18.04 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 12.87 feet below TOC Drawdown: 0.84 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G285
Sample ID: 059
Date (s): 10/29/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 74 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 10:59 Static Water Level: 6.52 feet below TOC
Total Depth: 26.80 feet below TOC
Water Column: 20.28 feet

Purging Activities

Purged By: BG Purge Date: 10/29/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $20.28 \text{ ft.} \times 0.022 = 0.45 \text{ L} \times 3 \text{ Vol.} = 1.35 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:59	0.0	171	purge start time						
11:25	4.5	↓	6.42	1,895.50	17.33	0.56	-107.70	238.72	
11:28	5.0		6.42	1,895.00	17.24	0.54	-107.90	256.42	
11:31	5.5		6.43	1,895.50	17.31	0.53	-107.30	270.96	
11:34	6.0		6.44	1,899.10	17.41	0.52	-105.90	286.34	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/29/2024 11:34
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.44 pH 1,899.10 Spec. Cond. 17.41 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 5.63 feet below TOC Drawdown: -0.89 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G301
Sample ID: 060
Date (s): 11/7/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 61 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/7/2024 12:54 Static Water Level: 7.30 feet below TOC
Total Depth: 18.60 feet below TOC
Water Column: 11.30 feet

Purging Activities

Purged By: TAC Purge Date: 11/7/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 11.3 ft. x 0.022 = 0.25 L x 3 Vol. = 0.75 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:54	0.0	208	purge start time						
13:03	1.9	↓	6.69	991.30	16.61	3.92	140.60	3.90	
13:06	2.5		6.64	983.80	16.55	3.72	145.50	3.69	
13:09	3.1		6.62	979.60	16.75	3.48	147.70	2.69	
13:12	3.7		6.61	978.90	16.75	3.28	148.40	2.31	
13:15	4.4		6.60	972.90	16.68	3.09	148.70	2.41	
13:18	5.0		6.60	972.10	16.73	2.99	148.40	2.35	

Sampling Activities

Sampled By: TAC Sample Date/Time: 11/7/2024 13:18
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.60 pH 972.10 Spec. Cond. 16.73 Temp
Field Filtered: No Filter Type:
Water Level: 8.61 feet below TOC Drawdown: 1.31 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45720

Form Completed By: Tracy Carroll

Date: 11/7/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G302
Sample ID: 061
Date (s): 11/6/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 60 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/6/2024 11:35 Static Water Level: 8.28 feet below TOC
Total Depth: 20.50 feet below TOC
Water Column: 12.22 feet

Purging Activities

Purged By: JC Purge Date: 11/6/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $12.22 \text{ ft.} \times 0.022 = 0.27 \text{ L} \times 3 \text{ Vol.} = 0.81 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:36	0.0	182	purge start time						
11:43	1.3	↓	6.57	1,287.80	16.48	2.95	-57.70	6.00	
11:46	1.8		6.56	1,264.70	16.50	2.39	-46.50	8.83	
11:49	2.4		6.56	1,267.40	16.49	2.07	-42.40	10.94	
11:52	2.9		6.56	1,269.00	16.50	1.85	-41.50	13.46	
11:55	3.5		6.56	1,268.40	16.47	1.78	-41.00	16.20	
11:58	4.0		6.56	1,268.20	16.52	1.69	-39.70	19.90	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/6/2024 11:58
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.56 pH 1,268.20 Spec. Cond. 16.52 Temp
Field Filtered: No Filter Type:
Water Level: 9.09 feet below TOC Drawdown: 0.81 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771
-

Form Completed By:

Justin Colp

Date: 11/6/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G303
Sample ID: 062
Date (s): 11/6/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 62 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/6/2024 13:27 Static Water Level: 7.65 feet below TOC
Total Depth: 23.30 feet below TOC
Water Column: 15.65 feet

Purging Activities

Purged By: JC Purge Date: 11/6/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $15.65 \text{ ft.} \times 0.022 = 0.34 \text{ L} \times 3 \text{ Vol.} = 1.02 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 2.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:27	0.0	119	purge start time						
13:36	1.1	↓	6.75	1,639.10	16.45	3.46	-142.80	7.00	
13:39	1.5		6.73	1,634.90	16.30	3.16	-127.60	18.40	
13:42	1.8		6.73	1,628.40	16.23	3.00	-114.20	11.69	
13:45	2.2		6.74	1,622.20	16.17	2.90	-102.40	10.22	
13:48	2.5		6.74	1,612.30	16.12	2.86	-92.10	13.58	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/6/2024 13:48
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.74 pH 1,612.30 Spec. Cond. 16.12 Temp
Field Filtered: No Filter Type:
Water Level: 8.54 feet below TOC Drawdown: 0.89 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 11/6/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G305
Sample ID: 063
Date (s): 11/6/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 61 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/6/2024 12:59 Static Water Level: 8.12 feet below TOC
Total Depth: 21.50 feet below TOC
Water Column: 13.38 feet

Purging Activities

Purged By: JC Purge Date: 11/6/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 13.38 ft. x 0.022 = 0.29 L x 3 Vol. = 0.87 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:59	0.0	286	purge start time						
13:05	1.7	↓	7.06	1,325.60	16.23	2.40	-57.40	2.54	
13:08	2.6		7.06	1,324.60	16.22	1.81	-41.40	2.51	
13:11	3.4		7.06	1,324.80	16.23	1.51	-35.00	2.53	
13:14	4.3		7.06	1,325.10	16.21	1.33	-32.50	2.08	
13:17	5.1		7.05	1,325.80	16.23	1.21	-31.30	1.86	
13:20	6.0		7.06	1,326.20	16.18	1.13	-31.00	1.25	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/6/2024 13:20
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.06 pH 1,326.20 Spec. Cond. 16.18 Temp
Field Filtered: No Filter Type:
Water Level: 8.31 feet below TOC Drawdown: 0.19 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 11/6/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G306
Sample ID: 064
Date (s): 11/4/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 68 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 9:58 Static Water Level: 11.06 feet below TOC
Total Depth: 20.90 feet below TOC
Water Column: 9.84 feet

Purging Activities

Purged By: BG Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $9.84 \text{ ft.} \times 0.022 = 0.22 \text{ L} \times 3 \text{ Vol.} = 0.66 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:58	0.0	190	purge start time						
10:10	2.3	↓	6.14	741.20	15.91	0.76	77.70	32.98	
10:13	2.9		6.14	734.30	15.90	0.73	79.80	37.93	
10:16	3.5		6.15	729.00	15.90	0.71	81.80	43.01	
10:19	4.0		6.15	724.50	15.91	0.70	83.80	50.26	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/4/2024 10:19
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.15 pH 724.50 Spec. Cond. 15.91 Temp
Field Filtered: No Filter Type:
Water Level: 11.58 feet below TOC Drawdown: 0.52 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G307
Sample ID: 065
Date (s): 11/4/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 68 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad Good
Casing Good
Protective Casing Good
Reference Mark/Identification Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 11:04 Static Water Level: 7.05 feet below TOC
Total Depth: 20.60 feet below TOC
Water Column: 13.55 feet

Purging Activities

Purged By: BG Purge Date: 11/4/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): $13.55 \text{ ft.} \times 0.022 = 0.3 \text{ L} \times 3 \text{ Vol.} = 0.9 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color:

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:04	0.0	267	purge start time						
11:13	2.4	↓	6.76	1,059.00	17.50	1.41	-121.70	14.82	
11:16	3.2		6.76	1,063.30	17.52	1.26	-123.20	9.82	
11:19	4.0		6.78	1,070.90	17.52	1.19	-119.70	7.84	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/4/2024 11:19
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.78 pH 1,070.90 Spec. Cond. 17.52 Temp
Field Filtered: No Filter Type:
Water Level: 6.65 feet below TOC Drawdown: -0.40 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G307D
Sample ID: 066
Date (s): 11/4/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 68 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 10:39 Static Water Level: 12.33 feet below TOC
Total Depth: 62.00 feet below TOC
Water Column: 49.67 feet

Purging Activities

Purged By: BG Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $49.67 \text{ ft.} \times 0.022 = 1.09 \text{ L} \times 3 \text{ Vol.} = 3.27 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.50 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:39	0.0	265	purge start time						
10:44	1.3	↓	6.91	1,240.20	16.65	2.44	-89.70	12.04	
10:47	2.1		6.94	1,273.80	16.86	2.25	-99.20	14.67	
10:50	2.9		6.97	1,289.30	16.95	2.04	-103.50	12.00	
10:53	3.7		6.99	1,297.20	17.04	1.90	-105.40	10.62	
10:56	4.5		7.00	1,302.40	17.01	1.81	-105.70	14.41	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/4/2024 10:56
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.00 pH 1,302.40 Spec. Cond. 17.01 Temp
Field Filtered: No Filter Type:
Water Level: 12.37 feet below TOC Drawdown: 0.04 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G308
Sample ID: 067
Date (s): 11/4/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 68 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 11:34 Static Water Level: 5.62 feet below TOC
Total Depth: 18.20 feet below TOC
Water Column: 12.58 feet

Purging Activities

Purged By: BG Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 12.58 ft. x 0.022 = 0.28 L x 3 Vol. = 0.84 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:34	0.0	227	purge start time						
11:41	1.6	↓	6.91	1,682.10	17.08	1.28	-30.00	7.73	
11:44	2.3		6.91	1,681.20	17.07	1.16	-26.50	31.28	
11:47	3.0		6.91	1,685.90	17.08	1.13	-23.10	12.67	
11:50	3.6		6.91	1,681.70	17.06	1.06	-20.00	6.53	
11:53	4.3		6.91	1,681.30	17.06	1.17	-17.20	18.02	
11:56	5.0		6.91	1,680.40	17.06	1.03	-14.80	17.30	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/4/2024 11:56
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.91 pH 1,680.40 Spec. Cond. 17.06 Temp
Field Filtered: No Filter Type:
Water Level: 5.86 feet below TOC Drawdown: 0.24 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G310
Sample ID: 068
Date (s): 11/6/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 59 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 11/6/2024 10:54 Static Water Level: 8.14 feet below TOC
Total Depth: 18.40 feet below TOC
Water Column: 10.26 feet

Purging Activities

Purged By: JC Purge Date: 11/6/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 10.26 ft. x 0.022 = 0.23 L x 3 Vol. = 0.69 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:55	0.0	173	purge start time						
11:03	1.4	↓	6.88	1,029.10	16.63	2.67	39.60	2.63	
11:06	1.9		6.89	1,029.50	16.59	2.10	38.70	2.64	
11:09	2.4		6.90	1,029.60	16.57	1.80	39.60	2.52	
11:12	3.0		6.90	1,029.50	16.56	1.60	41.80	2.38	
11:15	3.5		6.89	1,029.90	16.59	1.46	43.40	2.12	
11:18	4.0		6.89	1,030.10	16.61	1.36	44.90	1.63	
11:21	4.5		6.90	1,030.10	16.64	1.29	45.80	1.37	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/6/2024 11:21
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.90 pH 1,030.10 Spec. Cond. 16.64 Temp
Field Filtered: No Filter Type:
Water Level: 8.39 feet below TOC Drawdown: 0.25 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 11/6/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G312
Sample ID: 069
Date (s): 11/6/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 61 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/6/2024 12:01 Static Water Level: 8.80 feet below TOC
Total Depth: 17.80 feet below TOC
Water Column: 9.00 feet

Purging Activities

Purged By: JC Purge Date: 11/6/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $9 \text{ ft.} \times 0.022 = 0.2 \text{ L} \times 3 \text{ Vol.} = 0.6 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 12.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:02	0.0	240	purge start time						
12:07	1.2	↓	6.86	818.20	16.94	8.24	60.60	3.61	
12:10	1.9		6.72	864.50	16.91	8.06	80.70	3.08	
12:13	2.7		6.62	997.10	16.89	7.29	94.30	3.03	
12:16	3.4		6.51	1,133.20	16.89	6.41	102.70	3.07	
12:19	4.1		6.42	1,281.90	16.89	5.44	108.10	2.64	
12:22	4.8		6.37	1,407.20	16.89	4.60	108.20	2.72	
12:25	5.5		6.35	1,494.60	16.90	4.00	88.70	7.42	
12:28	6.3		6.34	1,561.90	16.89	3.55	63.60	8.96	
12:31	7.0		6.33	1,608.70	16.89	3.21	52.10	15.48	
12:34	7.7		6.32	1,650.00	16.89	2.93	52.90	21.35	
12:37	8.4		6.31	1,679.30	16.88	2.71	60.00	22.18	
12:40	9.1		6.29	1,729.30	16.87	2.49	67.70	24.25	
12:43	9.9		6.29	1,768.10	16.86	2.16	71.60	29.85	
12:46	10.6		6.29	1,773.20	16.86	2.01	74.50	2.72	
12:49	11.3		6.29	1,770.30	16.86	1.94	76.80	2.63	
12:52	12.0		6.29	1,770.60	16.89	1.90	79.10	2.47	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/6/2024 12:52
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.29 pH 1,770.60 Spec. Cond. 16.89 Temp
Field Filtered: No Filter Type:
Water Level: 9.97 feet below TOC Drawdown: 1.17 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:


Justin Colp

Date: 11/6/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G313
Sample ID: 070
Date (s): 11/7/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 56 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No	
Casing	Good		Protective Casing	X	
Protective Casing	Good		Well		X
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 11/7/2024 11:17 Static Water Level: 3.69 feet below TOC
Total Depth: 14.30 feet below TOC
Water Column: 10.61 feet

Purging Activities

Purged By: JC Purge Date: 11/7/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $10.61 \text{ ft.} \times 0.022 = 0.23 \text{ L} \times 3 \text{ Vol.} = 0.69 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:17	0.0	217	purge start time						
11:25	1.7	↓	6.66	1,398.40	17.18	2.57	43.40	5.08	
11:28	2.4		6.66	1,396.90	17.19	2.14	40.60	7.42	
11:31	3.0		6.66	1,396.80	17.24	1.87	38.40	9.66	
11:34	3.7		6.67	1,398.70	17.19	1.68	37.40	12.02	
11:37	4.3		6.67	1,399.70	17.21	1.55	36.60	16.56	
11:40	5.0		6.67	1,400.90	17.13	1.45	35.90	19.40	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/7/2024 11:40
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.67 pH 1,400.90 Spec. Cond. 17.13 Temp
Field Filtered: No Filter Type:
Water Level: 3.91 feet below TOC Drawdown: 0.22 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 11/7/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G314
Sample ID: 071
Date (s): 11/6/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 62 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/6/2024 13:51 Static Water Level: 6.05 feet below TOC
Total Depth: 22.80 feet below TOC
Water Column: 16.75 feet

Purging Activities

Purged By: JC Purge Date: 11/6/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $16.75 \text{ ft.} \times 0.022 = 0.37 \text{ L} \times 3 \text{ Vol.} = 1.11 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:52	0.0	211	purge start time						
13:56	0.8	↓	6.41	2,968.70	16.52	2.69	-90.90	16.38	
13:59	1.5		6.41	2,975.80	16.59	1.82	-92.60	20.89	
14:02	2.1		6.42	2,976.40	16.64	1.45	-94.40	31.54	
14:05	2.7		6.43	2,976.50	16.71	1.25	-96.10	31.52	
14:08	3.4		6.44	2,976.40	16.75	1.13	-96.50	30.78	
14:11	4.0		6.44	2,977.10	16.76	1.05	-96.10	32.29	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/6/2024 14:11
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.44 pH 2,977.10 Spec. Cond. 16.76 Temp
Field Filtered: No Filter Type:
Water Level: 10.11 feet below TOC Drawdown: 4.06 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 11/6/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G314D
Sample ID: 072
Date (s): 11/4/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 70 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☐ Light ☒ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 13:30 Static Water Level: 8.56 feet below TOC
Total Depth: 52.30 feet below TOC
Water Column: 43.74 feet

Purging Activities

Purged By: BG Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 43.74 ft. x 0.022 = 0.96 L x 3 Vol. = 2.88 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:30	0.0	150	purge start time						
13:41	1.6	↓	6.69	2,785.30	15.89	0.56	-86.40	425.71	
13:44	2.1		6.69	2,781.00	15.85	0.52	-89.40	149.39	
13:47	2.5		6.69	2,777.50	15.81	0.50	-91.70	228.33	
13:50	3.0		6.69	2,782.50	15.81	0.48	-93.80	317.35	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/4/2024 13:50
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.69 pH 2,782.50 Spec. Cond. 15.81 Temp
Field Filtered: No Filter Type:
Water Level: 8.88 feet below TOC Drawdown: 0.32 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G315
Sample ID: 073
Date (s): 11/4/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 70 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☐ Light ☒ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 13:00 Static Water Level: 3.17 feet below TOC
Total Depth: 17.40 feet below TOC
Water Column: 14.23 feet

Purging Activities

Purged By: BG Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 14.23 ft. x 0.022 = 0.31 L x 3 Vol. = 0.93 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 2.50 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:00	0.0	156	purge start time						
13:07	1.1	↓	6.67	1,252.40	16.08	0.93	27.10	9.44	
13:10	1.6		6.64	1,251.60	16.09	0.79	34.40	7.52	
13:13	2.1		6.62	1,251.50	16.09	0.71	39.80	6.61	
13:16	2.5		6.61	1,251.90	16.07	0.66	43.70	5.50	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/4/2024 13:16
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.61 pH 1,251.90 Spec. Cond. 16.07 Temp
Field Filtered: No Filter Type:
Water Level: 3.42 feet below TOC Drawdown: 0.25 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G316
Sample ID: 074
Date (s): 11/4/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Tracy Carroll Affiliation: TekLab, Inc.

Weather Conditions

Temp: 70 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☐ Light ☒ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 12:10 Static Water Level: 11.01 feet below TOC
Total Depth: 18.10 feet below TOC
Water Column: 7.09 feet

Purging Activities

Purged By: BG Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $7.09 \text{ ft.} \times 0.022 = 0.16 \text{ L} \times 3 \text{ Vol.} = 0.48 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 6.50 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: Lt Yellow

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:10	0.0	250	purge start time						
12:18	2.0	↓	6.72	1,985.90	16.48	0.96	-113.20	6.28	
12:21	2.7		6.71	1,986.80	16.47	0.82	-114.50	71.84	
12:24	3.5		6.70	1,988.10	16.47	0.66	-114.50	17.34	
12:27	4.2		6.70	1,989.10	16.47	0.68	-115.30	27.82	
12:30	5.0		6.70	1,989.80	16.47	0.73	-115.50	137.21	
12:33	5.7		6.69	1,987.00	16.46	0.83	-115.20	3136.86	
12:36	6.5		7.01	1,986.60	16.64	0.77	-115.60	59.11	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/4/2024 12:36
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.01 pH 1,986.60 Spec. Cond. 16.64 Temp
Field Filtered: No Filter Type:
Water Level: 11.64 feet below TOC Drawdown: 0.63 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G401
Sample ID: 075
Date (s): 11/6/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 56 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/6/2024 10:10 Static Water Level: 21.44 feet below TOC
Total Depth: 21.80 feet below TOC
Water Column: 0.36 feet

Purging Activities

Purged By: JC Purge Date: 11/6/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $0.36 \text{ ft.} \times 0.022 = 0.01 \text{ L} \times 3 \text{ Vol.} = 0.03 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 2.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:12	0.0	83	purge start time						
10:21	0.8	↓	5.54	2,222.60	16.64	2.37	23.80	36.83	
10:24	1.0		5.56	2,224.70	16.63	1.89	20.70	18.44	
10:27	1.3		5.58	2,225.30	16.61	1.62	19.20	9.97	
10:30	1.5		5.59	2,225.20	16.61	1.45	17.90	6.48	
10:33	1.8		5.61	2,225.10	16.63	1.33	16.60	5.10	
10:36	2.0		5.62	2,225.00	16.65	1.24	15.40	4.10	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/6/2024 10:36
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 5.62 pH 2,225.00 Spec. Cond. 16.65 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: T.O.P. feet below TOC Drawdown: N/A feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771
- Total depth= T.O.P.

Form Completed By:

Justin Colp

Date: 11/6/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G402
Sample ID: 076
Date (s): 11/4/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 68 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☐ Light ☒ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No	
Casing	Good		Protective Casing	X	
Protective Casing	Good		Well		X
Reference Mark/Identification	Yes				

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 11:30 Static Water Level: 11.42 feet below TOC
Total Depth: 23.40 feet below TOC
Water Column: 11.98 feet

Purging Activities

Purged By: JC Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $11.98 \text{ ft.} \times 0.022 = 0.26 \text{ L} \times 3 \text{ Vol.} = 0.78 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:31	0.0	192	purge start time						
11:48	3.3	↓	7.02	1,270.30	17.55	8.63	84.20	12.46	
11:51	3.9		7.02	1,272.90	17.55	8.74	87.30	13.98	
11:54	4.5		7.01	1,276.10	17.55	8.77	90.30	15.11	
11:57	5.0		7.01	1,278.30	17.55	8.78	93.20	14.43	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/4/2024 11:57
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.01 pH 1,278.30 Spec. Cond. 17.55 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 11.87 feet below TOC Drawdown: 0.45 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G403
Sample ID: 077
Date (s): 11/4/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 68 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☐ Light ☒ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 10:41 Static Water Level: 8.48 feet below TOC
Total Depth: 20.80 feet below TOC
Water Column: 12.32 feet

Purging Activities

Purged By: JC Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $12.32 \text{ ft.} \times 0.022 = 0.27 \text{ L} \times 3 \text{ Vol.} = 0.81 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:42	0.0	208	purge start time						
10:48	1.3	↓	6.76	578.30	16.54	3.10	-81.70	10.35	
10:51	1.9		6.72	565.80	16.59	2.19	-61.10	6.95	
10:54	2.5		6.71	560.40	16.63	1.77	-50.80	7.77	
10:57	3.2		6.71	558.90	16.65	1.53	-53.00	9.21	
11:00	3.8		6.71	558.20	16.68	1.37	-75.10	12.18	
11:03	4.4		6.71	557.60	16.66	1.27	-98.30	16.11	
11:06	5.0		6.72	557.40	16.66	1.19	-107.70	20.04	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/4/2024 11:06
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.72 pH 557.40 Spec. Cond. 16.66 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 10.91 feet below TOC Drawdown: 2.43 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

[Signature]

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G404
Sample ID: 078
Date (s): 11/4/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☐ Light ☒ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 10:18 Static Water Level: 5.35 feet below TOC
Total Depth: 14.10 feet below TOC
Water Column: 8.75 feet

Purging Activities

Purged By: JC Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $8.75 \text{ ft.} \times 0.022 = 0.19 \text{ L} \times 3 \text{ Vol.} = 0.57 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:18	0.0	182	purge start time						
10:28	1.8	↓	6.44	1,719.90	17.49	2.39	101.60	5.92	
10:31	2.4		6.43	1,700.50	17.47	1.97	96.50	7.16	
10:34	2.9		6.42	1,690.30	17.46	1.75	91.70	8.10	
10:37	3.5		6.42	1,682.80	17.48	1.61	84.10	9.13	
10:40	4.0		6.42	1,674.10	17.48	1.51	76.20	9.91	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/4/2024 10:40
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.42 pH 1,674.10 Spec. Cond. 17.48 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 6.03 feet below TOC Drawdown: 0.68 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G405
Sample ID: 079
Date (s): 11/4/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 68 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☐ Light ☒ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 9:57 Static Water Level: 6.05 feet below TOC
Total Depth: 16.40 feet below TOC
Water Column: 10.35 feet

Purging Activities

Purged By: JC Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $10.35 \text{ ft.} \times 0.022 = 0.23 \text{ L} \times 3 \text{ Vol.} = 0.69 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:58	0.0	239	purge start time						
10:06	1.9	↓	6.73	1,490.60	17.70	2.26	-9.10	16.27	
10:09	2.6		6.72	1,511.30	17.69	1.80	-3.10	20.27	
10:12	3.3		6.72	1,519.90	17.69	1.55	-0.90	24.74	
10:15	4.1		6.72	1,524.60	17.69	1.39	0.10	28.96	
10:18	4.8		6.71	1,528.30	17.69	1.28	0.90	34.30	
10:21	5.5		6.71	1,534.80	17.68	1.20	1.10	38.11	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/4/2024 10:21
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.71 pH 1,534.80 Spec. Cond. 17.68 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 6.75 feet below TOC Drawdown: 0.70 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G406
Sample ID: 080
Date (s): 11/4/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 69 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☐ Light ☒ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 12:24 Static Water Level: 12.39 feet below TOC
Total Depth: 22.30 feet below TOC
Water Column: 9.91 feet

Purging Activities

Purged By: JC Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 9.91 ft. x 0.022 = 0.22 L x 3 Vol. = 0.66 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:25	0.0	214	purge start time						
12:31	1.3	↓	6.40	990.60	17.42	2.91	118.40	2.55	
12:34	1.9		6.39	989.30	17.42	2.16	117.20	2.65	
12:37	2.6		6.39	991.00	17.42	1.79	115.10	2.95	
12:40	3.2		6.39	992.60	17.42	1.56	112.60	3.34	
12:43	3.9		6.39	994.60	17.42	1.41	109.80	3.41	
12:46	4.5		6.39	996.20	17.41	1.30	107.10	4.47	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/4/2024 12:46
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.39 pH 996.20 Spec. Cond. 17.41 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 13.05 feet below TOC Drawdown: 0.66 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G407
Sample ID: 081
Date (s): 11/4/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 71 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☐ Light ☒ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 11/4/2024 13:17 Static Water Level: 6.52 feet below TOC
Total Depth: 23.00 feet below TOC
Water Column: 16.48 feet

Purging Activities

Purged By: JC Purge Date: 11/4/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 16.48 ft. x 0.022 = 0.36 L x 3 Vol. = 1.08 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:18	0.0	205	purge start time						
13:25	1.4	↓	6.44	2,366.50	17.20	3.06	25.00	4.30	
13:28	2.0		6.49	2,193.20	17.22	2.33	31.90	4.16	
13:31	2.7		6.54	1,940.30	17.24	1.83	30.50	3.94	
13:34	3.3		6.56	1,792.00	17.26	1.58	29.40	3.73	
13:37	3.9		6.57	1,727.10	17.27	1.47	29.00	2.84	
13:40	4.5		6.57	1,712.20	17.29	1.43	29.20	2.59	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/4/2024 13:40
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.57 pH 1,712.20 Spec. Cond. 17.29 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 10.89 feet below TOC Drawdown: 4.37 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 11/4/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G410
Sample ID: 082
Date (s): 11/6/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 55 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/6/2024 9:33 Static Water Level: 7.30 feet below TOC
Total Depth: 16.70 feet below TOC
Water Column: 9.40 feet

Purging Activities

Purged By: JC Purge Date: 11/6/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 9.4 ft. x 0.022 = 0.21 L x 3 Vol. = 0.63 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:34	0.0	200	purge start time						
9:41	1.4	↓	6.43	944.20	17.10	3.05	-15.40	22.23	
9:44	2.0		6.43	909.30	17.11	2.33	-14.50	5.79	
9:47	2.6		6.43	907.70	17.15	1.94	-15.60	2.87	
9:50	3.2		6.44	905.40	17.16	1.70	-16.60	2.33	
9:53	3.8		6.44	900.40	17.16	1.54	-17.20	1.83	
9:56	4.4		6.44	896.30	17.16	1.42	-17.60	1.59	
9:59	5.0		6.43	885.70	17.16	1.34	-16.20	12.07	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/6/2024 9:59
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.43 pH 885.70 Spec. Cond. 17.16 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 8.40 feet below TOC Drawdown: 1.10 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: 

Date: 11/6/2024

Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G411
Sample ID: 083
Date (s): 11/6/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 54 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	<u>Good</u>	Locks	<u>Yes</u>	<u>No</u>	
Casing	<u>Good</u>		Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>				
Reference Mark/Identification	<u>Yes</u>				<u>X</u>

Groundwater Level Measurements

Date/Time Measured: 11/6/2024 8:57 Static Water Level: 6.75 feet below TOC
Total Depth: 19.20 feet below TOC
Water Column: 12.45 feet

Purging Activities

Purged By: JC Purge Date: 11/6/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 12.45 ft. x 0.022 = 0.27 L x 3 Vol. = 0.81 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
8:58	0.0	208	purge start time						
9:04	1.3	↓	6.97	701.40	16.06	3.35	97.50	2.67	
9:07	1.9		6.98	706.20	16.08	2.63	98.50	2.78	
9:10	2.5		6.99	706.60	16.08	2.22	98.20	2.97	
9:13	3.1		6.99	705.30	16.04	1.96	97.50	3.07	
9:16	3.8		6.99	703.70	16.07	1.77	96.70	6.24	
9:19	4.4		7.00	703.60	16.07	1.63	95.60	18.43	
9:22	5.0		7.00	702.40	16.07	1.53	94.60	23.13	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/6/2024 9:22
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.00 pH 702.40 Spec. Cond. 16.07 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 7.21 feet below TOC Drawdown: 0.46 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:




Date: 11/6/2024

Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: L201
Sample ID: 084
Date (s): 11/7/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 58 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Locks	Yes	No
Casing	Protective Casing	X	
Protective Casing	Well		X
Reference Mark/Identification			

Groundwater Level Measurements

Date/Time Measured: 11/7/2024 12:20 Static Water Level: 3.62 feet below TOC
Total Depth: - feet below TOC
Water Column: #VALUE! feet

Purging Activities

Purged By: JC Purge Date: 11/7/2024
Purge Method: Direct Grab Well Diameter:
Purge Volume Calculation (L):
Actual Purge Volume (L): 1.00 L
Physical appearance of purge water: Clear Odor: Slight Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:20	0.0		purge start time						
12:22	1.0		11.28	10,485.10	16.38	7.82	-77.60	56.05	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/7/2024 12:22
Sample Method: Low Flow Sample Equipment: Direct Grab
Sample Parameters: 11.28 pH 10,485.10 Spec. Cond. 16.38 Temp
Field Filtered: No Filter Type:
Water Level: - feet below TOC Drawdown: #VALUE! feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 11/7/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: NE Riser
Sample ID: 085
Date (s): 11/7/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 54 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad _____
Casing _____
Protective Casing _____
Reference Mark/Identification _____

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/7/2024 10:44 Static Water Level: 19.58 feet below TOC
Total Depth: - feet below TOC
Water Column: #VALUE! feet

Purging Activities

Purged By: JC Purge Date: 11/7/2024
Purge Method: Bladder Pump Well Diameter: _____
Purge Volume Calculation (L): _____
Actual Purge Volume (L): 1.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:44	0.0		purge start time						
10:47	1.0		6.47	12,624.90	17.45	4.87	211.70	14.41	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/7/2024 10:47
Sample Method: Direct Sample Sample Equipment: Bladder Pump
Sample Parameters: 6.47 pH 12,624.90 Spec. Cond. 17.45 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: - feet below TOC Drawdown: N/A feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: 

Date: 11/7/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: R104
Sample ID: 086
Date (s): 10/30/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 78 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 12:45 Static Water Level: 11.89 feet below TOC
Total Depth: 22.70 feet below TOC
Water Column: 10.81 feet

Purging Activities

Purged By: JC Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $10.81 \text{ ft.} \times 0.022 = 0.24 \text{ L} \times 3 \text{ Vol.} = 0.72 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: Moderate Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:40	0.0	227	purge start time						
12:47	1.7	↓	7.12	819.30	18.39	1.83	-204.40	5.81	
12:50	2.4		7.13	818.10	18.48	1.40	-215.50	9.56	
12:53	3.1		7.15	815.30	18.46	1.22	-222.80	14.95	
12:56	3.7		7.16	813.40	18.37	1.09	-227.40	21.54	
12:59	4.4		7.16	811.80	18.38	0.98	-230.20	28.51	
13:02	5.1		7.18	807.00	18.36	0.93	-229.90	35.49	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/30/2024 13:02
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.18 pH 807.00 Spec. Cond. 18.36 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 17.68 feet below TOC Drawdown: 5.79 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: 

Date: 10/30/2024

Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: R201
Sample ID: 087
Date (s): 10/30/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 79 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 13:49 Static Water Level: 6.49 feet below TOC
Total Depth: 22.20 feet below TOC
Water Column: 15.71 feet

Purging Activities

Purged By: BG Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $15.71 \text{ ft.} \times 0.022 = 0.35 \text{ L} \times 3 \text{ Vol.} = 1.05 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 8.00 L
Physical appearance of purge water: Slightly cloudy Odor: Slight Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:49	0.0	381	purge start time						
13:58	3.4	↓	6.80	1,046.90	17.63	0.54	-103.70	136.67	
14:01	4.6		6.79	1,049.40	17.38	0.51	-102.30	6.60	
14:04	5.7		6.79	1,049.20	17.12	0.48	-100.80	127.52	
14:07	6.9		6.79	1,049.60	17.09	0.46	-100.50	219.63	
14:10	8.0		6.78	1,047.30	17.09	0.46	-99.90	20.89	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/30/2024 14:10
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.78 pH 1,047.30 Spec. Cond. 17.09 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 6.58 feet below TOC Drawdown: 0.09 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: R205
Sample ID: 088
Date (s): 11/6/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 59 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/6/2024 12:26 Static Water Level: 6.94 feet below TOC
Total Depth: 19.00 feet below TOC
Water Column: 12.06 feet

Purging Activities

Purged By: TAC Purge Date: 11/6/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): $12.06 \text{ ft.} \times 0.022 = 0.27 \text{ L} \times 3 \text{ Vol.} = 0.81 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:30	0.0	261	purge start time						
12:35	1.4	↓	7.09	1,161.80	16.46	3.66	225.10	9.47	
12:38	2.1		6.99	1,166.10	16.43	2.82	222.50	7.78	
12:41	2.9		6.94	1,164.00	16.39	2.38	220.20	7.73	
12:44	3.7		6.90	1,159.50	16.38	2.11	217.70	10.84	
12:47	4.5		6.88	1,158.40	16.39	1.91	214.90	13.27	
12:50	5.3		6.87	1,156.40	16.45	1.77	212.30	23.43	
12:53	6.0		6.86	1,154.80	16.49	1.67	209.70	17.40	

Sampling Activities

Sampled By: TAC Sample Date/Time: 11/6/2024 12:53
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.86 pH 1,154.80 Spec. Cond. 16.49 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 7.38 feet below TOC Drawdown: 0.44 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45720

Form Completed By:

Tracy Carroll

Date: 11/6/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: SG-02
Sample ID: 089
Date (s): 10/29/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 78 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Locks	Yes	No
Casing	Protective Casing	X	
Protective Casing	Well		X
Reference Mark/Identification			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 9:56 Static Water Level: 6.17 feet below TOC
Total Depth: - feet below TOC
Water Column: - feet

Purging Activities

Purged By: Purge Date:
Purge Method: Well Diameter:
Purge Volume Calculation (L): *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L):
Physical appearance of purge water: Odor: Color:

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
	0.0		purge start time						

Sampling Activities

Sampled By: Sample Date/Time:
Sample Method: Sample Equipment:
Sample Parameters: pH Spec. Cond. Temp
Field Filtered: Filter Type:
Water Level: feet below TOC Drawdown: feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- DTW Only; no sample collected

Form Completed By: Tracy Carroll Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: SG-03
Sample ID: 090
Date (s): 10/29/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 78 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Locks	Yes	No
Casing	Protective Casing		X
Protective Casing	Well		X
Reference Mark/Identification			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 9:49 Static Water Level: 9.72 feet below TOC
Total Depth: - feet below TOC
Water Column: #VALUE! feet

Purging Activities

Purged By: Purge Date:
Purge Method: Well Diameter:
Purge Volume Calculation (L): *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L):
Physical appearance of purge water: Odor: Color:

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
	0.0		purge start time						

Sampling Activities

Sampled By: Sample Date/Time:
Sample Method: Sample Equipment:
Sample Parameters: pH Spec. Cond. Temp
Field Filtered: Filter Type:
Water Level: feet below TOC Drawdown: feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- DTW Only; no sample collected

Form Completed By:

Tracy Carroll

Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: T127
Sample ID: 091
Date (s): 10/29/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 75 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 11:17 Static Water Level: 16.10 feet below TOC
Total Depth: 21.28 feet below TOC
Water Column: 5.18 feet

Purging Activities

Purged By: JC Purge Date: 10/29/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): $5.18 \text{ ft.} \times 0.022 = 0.11 \text{ L} \times 3 \text{ Vol.} = 0.33 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 8.00 L
Physical appearance of purge water: Cloudy Odor: None Color: Lt yellow

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:18	0.0	235	purge start time						
11:25	1.6	↓	7.11	752.90	18.92	2.59	19.50	371.10	
11:28	2.4		7.11	755.30	18.94	2.17	21.10	285.60	
11:31	3.1		7.12	758.60	19.16	2.32	23.20	201.05	
11:34	3.8		7.13	762.20	19.14	2.53	26.20	177.57	
11:37	4.5		7.13	761.40	19.06	2.33	26.30	147.43	
11:40	5.2		7.12	761.70	18.84	2.21	27.10	66.08	
11:43	5.9		7.11	761.10	18.77	1.91	26.60	57.60	
11:46	6.6		7.12	762.50	19.03	1.94	26.70	244.15	
11:49	7.3		7.12	763.30	19.04	2.14	28.00	108.74	
11:52	8.0		7.12	762.90	18.97	2.27	29.80	86.18	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/29/2024 11:52
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 7.12 pH 762.90 Spec. Cond. 18.97 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 16.31 feet below TOC Drawdown: 0.21 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 10/29/2024

Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: T128
Sample ID: 092
Date (s): 10/29/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 77 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 11:55 Static Water Level: 15.72 feet below TOC
Total Depth: 28.70 feet below TOC
Water Column: 12.98 feet

Purging Activities

Purged By: JC Purge Date: 10/29/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $12.98 \text{ ft.} \times 0.022 = 0.29 \text{ L} \times 3 \text{ Vol.} = 0.87 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 4.50 L
Physical appearance of purge water: Clear Odor: Slight Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:57	0.0	250	purge start time						
12:03	1.5	↓	6.99	734.50	17.95	2.42	-131.00	0.66	
12:06	2.3		7.00	732.40	17.96	1.68	-127.20	0.56	
12:09	3.0		7.00	729.80	17.98	1.35	-123.70	0.51	
12:12	3.8		7.00	724.90	17.99	1.18	-120.10	0.27	
12:15	4.5		7.00	723.40	17.99	1.07	-116.10	0.04	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/29/2024 12:15
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.00 pH 723.40 Spec. Cond. 17.99 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 15.72 feet below TOC Drawdown: 0.00 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:


 TekLab Inc.
Environmental Laboratory

Date: 10/29/2024

Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: X201
Sample ID: 093
Date (s): 11/7/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 55 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad
Casing
Protective Casing
Reference Mark/Identification

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/7/2024 10:55

Static Water Level: 20.77 feet below TOC
Total Depth: - feet below TOC
Water Column: #VALUE! feet

Purging Activities

Purged By: JC Purge Date: 11/7/2024
Purge Method: Direct Grab Well Diameter:
Purge Volume Calculation (L):
Actual Purge Volume (L): 1.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:55	0.0		purge start time						
10:58	1.0		4.64	15,946.70	16.12	9.39	223.60	2.21	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/7/2024 10:58
Sample Method: Low Flow Sample Equipment: Direct Grab
Sample Parameters: 4.64 pH 15,946.70 Spec. Cond. 16.12 Temp
Field Filtered: No Filter Type: Lab Filtered
Water Level: - feet below TOC Drawdown: - feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: 

Date: 11/7/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: XSG-01
Sample ID: 094
Date (s): 10/29/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 77 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Locks	Yes	No
Casing	Protective Casing		X
Protective Casing	Well		X
Reference Mark/Identification			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 14:43 Static Water Level: 7.56 feet below TOC
Total Depth: - feet below TOC
Water Column: - feet

Purging Activities

Purged By: Purge Date:
Purge Method: Well Diameter:
Purge Volume Calculation (L): *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L):
Physical appearance of purge water: Odor: Color:

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
	0.0		purge start time						

Sampling Activities

Sampled By: Sample Date/Time:
Sample Method: Sample Equipment:
Sample Parameters: pH Spec. Cond. Temp
Field Filtered: Filter Type:
Water Level: feet below TOC Drawdown: feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- DTW Only; no sample collected

Form Completed By: Tracy Carroll Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: Field Blank
Sample ID: 095
Date (s):

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 55 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Locks	Yes	No
Casing	Protective Casing		X
Protective Casing	Well		X
Reference Mark/Identification			

Groundwater Level Measurements

Date/Time Measured: Static Water Level: feet below TOC
Total Depth: - feet below TOC
Water Column: #VALUE! feet

Purging Activities

Purged By: Purge Date:
Purge Method: Direct Grab Well Diameter:
Purge Volume Calculation (L):
Actual Purge Volume (L):
Physical appearance of purge water: Odor: Color:

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
			purge start time						

Sampling Activities

Sampled By: JC Sample Date/Time: 11/7/2024 12:55
Sample Method: Sample Equipment: Direct Grab
Sample Parameters: pH Spec. Cond. Temp
Field Filtered: Filter Type:
Water Level: feet below TOC Drawdown: feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Date: 11/7/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G102 Duplicate
Sample ID: 096
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks Protective Casing Well	Yes	No
Casing	Good			X
Protective Casing	Good			X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 9:39 Static Water Level: 9.31 feet below TOC
Total Depth: 20.00 feet below TOC
Water Column: 10.69 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $10.69 \text{ ft.} \times 0.022 = 0.24 \text{ L} \times 3 \text{ Vol.} = 0.72 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 3.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:41	0.0	194	purge start time						
9:53	2.3	↓	7.10	720.10	17.08	2.25	89.90	1.10	
9:56	2.9		7.09	716.70	17.08	2.13	88.40	0.77	
9:59	3.5		7.09	712.90	17.09	2.06	86.70	0.55	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 9:59
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.09 pH 712.90 Spec. Cond. 17.09 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 9.66 feet below TOC Drawdown: 0.35 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:

Justin Colp

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G200 Duplicate
Sample ID: 097
Date (s): 10/29/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 77 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/29/2024 12:05 Static Water Level: 6.22 feet below TOC
Total Depth: 20.70 feet below TOC
Water Column: 14.48 feet

Purging Activities

Purged By: BG Purge Date: 10/29/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 14.48 ft. x 0.022 = 0.32 L x 3 Vol. = 0.96 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 2.50 L
Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:05	0.0	89	purge start time						
12:24	1.7	↓	6.98	804.80	21.22	3.44	-7.60	4.65	
12:27	2.0		6.90	813.30	21.29	2.51	-10.40	4.36	
12:30	2.3		6.88	815.40	21.26	2.06	-12.30	4.40	
12:33	2.5		6.87	815.70	21.42	1.87	-14.20	5.03	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/29/2024 12:33
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.87 pH 815.70 Spec. Cond. 21.42 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 6.33 feet below TOC Drawdown: 0.11 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/29/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G217 Duplicate
Sample ID: 098
Date (s): 10/31/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 67 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☒ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☒ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	<u>Good</u>	Protective Casing	<u>X</u>	
Protective Casing	<u>Good</u>	Well		<u>X</u>
Reference Mark/Identification	<u>Yes</u>			

Groundwater Level Measurements

Date/Time Measured: 10/31/2024 10:27 Static Water Level: 18.86 feet below TOC
Total Depth: 28.40 feet below TOC
Water Column: 9.54 feet

Purging Activities

Purged By: JC Purge Date: 10/31/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 9.54 ft. x 0.022 = 0.21 L x 3 Vol. = 0.63 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:28	0.0	200	purge start time						
10:35	1.4	↓	6.73	1,702.90	16.33	2.58	-88.70	5.01	
10:38	2.0		6.73	1,694.60	16.33	1.96	-87.40	19.91	
10:41	2.6		6.73	1,690.30	16.31	1.63	-86.40	29.89	
10:44	3.2		6.73	1,687.40	16.28	1.42	-86.00	38.38	
10:47	3.8		6.73	1,685.90	16.30	1.28	-87.80	62.74	
10:50	4.4		6.73	1,689.90	16.28	1.18	-89.00	58.01	
10:53	5.0		6.73	1,689.50	16.28	1.12	-89.90	72.85	

Sampling Activities

Sampled By: JC Sample Date/Time: 10/31/2024 10:53
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.73 pH 1,689.50 Spec. Cond. 16.28 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 19.10 feet below TOC Drawdown: 0.24 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp

Date: 10/31/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: G301 Duplicate
Sample ID: 099
Date (s): 11/7/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 61 °F Wind Direction: ☐ N ☒ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/7/2024 12:54 Static Water Level: 7.30 feet below TOC
Total Depth: 18.60 feet below TOC
Water Column: 11.30 feet

Purging Activities

Purged By: TAC Purge Date: 11/7/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 11.3 ft. x 0.022 = 0.25 L x 3 Vol. = 0.75 L *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:54	0.0	208	purge start time						
13:03	1.9	↓	6.69	991.30	16.61	3.92	140.60	3.90	
13:06	2.5		6.64	983.80	16.55	3.72	145.50	3.69	
13:09	3.1		6.62	979.60	16.75	3.48	147.70	2.69	
13:12	3.7		6.61	978.90	16.75	3.28	148.40	2.31	
13:15	4.4		6.60	972.90	16.68	3.09	148.70	2.41	
13:18	5.0		6.60	972.10	16.73	2.99	148.40	2.35	

Sampling Activities

Sampled By: TAC Sample Date/Time: 11/7/2024 13:18
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.60 pH 972.10 Spec. Cond. 16.73 Temp
Field Filtered: No Filter Type:
Water Level: 8.61 feet below TOC Drawdown: 1.31 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45720

Form Completed By:

Tracy Carroll

Date: 11/7/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: R201 Duplicate
Sample ID: 100
Date (s): 10/30/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 79 °F Wind Direction: ☒ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☒ None ☐ Light ☐ Heavy Sky: ☒ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good	Locks	Yes	No
Casing	Good	Protective Casing	X	
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 10/30/2024 13:49 Static Water Level: 6.49 feet below TOC
Total Depth: 22.20 feet below TOC
Water Column: 15.71 feet

Purging Activities

Purged By: BG Purge Date: 10/30/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): $15.71 \text{ ft.} \times 0.022 = 0.35 \text{ L} \times 3 \text{ Vol.} = 1.05 \text{ L}$ *Based on Low-Flow (3/8" discharge)
Actual Purge Volume (L): 8.00 L
Physical appearance of purge water: Slightly cloudy Odor: Slight Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:49	0.0	381	purge start time						
13:58	3.4	↓	6.80	1,046.90	17.63	0.54	-103.70	136.67	
14:01	4.6		6.79	1,049.40	17.38	0.51	-102.30	6.60	
14:04	5.7		6.79	1,049.20	17.12	0.48	-100.80	127.52	
14:07	6.9		6.79	1,049.60	17.09	0.46	-100.50	219.63	
14:10	8.0		6.78	1,047.30	17.09	0.46	-99.90	20.89	

Sampling Activities

Sampled By: BG Sample Date/Time: 10/30/2024 14:10
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.78 pH 1,047.30 Spec. Cond. 17.09 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 6.58 feet below TOC Drawdown: 0.09 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:

Brett Gillihan

Date: 10/30/2024



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: Equipment Blank 1
Sample ID: 101
Date (s):

Field Team Members

Name: Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad
Casing
Protective Casing
Reference Mark/Identification

Locks
Protective Casing
Well

Yes	No
X	
	X

Groundwater Level Measurements

Date/Time Measured: Static Water Level: feet below TOC
Total Depth: feet below TOC
Water Column: feet

Purging Activities

Purged By: Purge Date:
Purge Method: Well Diameter:
Purge Volume Calculation (L):
Actual Purge Volume (L):
Physical appearance of purge water: Odor: Color:

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
			purge start time						

Sampling Activities

Sampled By: Sample Date/Time:
Sample Method: Sample Equipment:
Sample Parameters: pH Spec. Cond. Temp
Field Filtered: Filter Type:
Water Level: feet below TOC Drawdown: feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Not used; no non-dedicated equipment used.

Form Completed By: **Date:**

Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: Equipment Blank 2
Sample ID: 102
Date (s):

Field Team Members

Name: Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad
Casing
Protective Casing
Reference Mark/Identification

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: Static Water Level: feet below TOC
Total Depth: feet below TOC
Water Column: feet

Purging Activities

Purged By: Purge Date:
Purge Method: Well Diameter:
Purge Volume Calculation (L):
Actual Purge Volume (L):
Physical appearance of purge water: Odor: Color:

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
			purge start time						

Sampling Activities

Sampled By: Sample Date/Time:
Sample Method: Sample Equipment:
Sample Parameters: pH Spec. Cond. Temp
Field Filtered: Filter Type:
Water Level: feet below TOC Drawdown: feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Not used; no non-dedicated equipment used.

Form Completed By: Date:



Field Data Sheet

Project Name: COF- 24Q4
Project Location: Coffeen, Illinois
W.O. Number (s): 24101589

Monitoring Point: Equipment Blank 3
Sample ID: 103
Date (s):

Field Team Members

Name: Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE
☐ NW
Precipitation: ☐ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad
Casing
Protective Casing
Reference Mark/Identification

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: Static Water Level: feet below TOC
Total Depth: feet below TOC
Water Column: feet

Purging Activities

Purged By: Purge Date:
Purge Method: Well Diameter:
Purge Volume Calculation (L):
Actual Purge Volume (L):
Physical appearance of purge water: Odor: Color:

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
			purge start time						

Sampling Activities

Sampled By: Sample Date/Time:
Sample Method: Sample Equipment:
Sample Parameters: pH Spec. Cond. Temp
Field Filtered: Filter Type:
Water Level: feet below TOC Drawdown: feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Not used; no non-dedicated equipment used.

Form Completed By: Date:



Site Sampling Event: COF- 24Q4
LIMS Workorder: 24101589
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
COFFEEN- 4Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

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 210771 Technician(s): justin colp Date: 10/29/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc240612a	4.00	10/29/24 8:53
7.0 Buffer	wc240913b	7.00	10/29/24 8:48
10.0 Buffer	wc240625b	10.00	10/29/24 8:59
LCS/CCV (7.0 Buffer)	wc240913c		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 μ S Std.	100029	1412	10/29/24 9:04

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.04	10/29/24 9:04
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity μ S	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	10/29/24 9:11	20.7	7.02	1,414	0.04		
CCV-1-JC	CCV	10/29/24 14:20	24.8	6.98	1,422	0.05		

Comments: _____

Field Meter ID: Pine 210771 Technician(s): justin colp Date: 10/30/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc240612a	4.00	10/30/24 8:26
7.0 Buffer	wc240913b	7.00	10/30/24 8:21
10.0 Buffer	wc240625b	10.00	10/30/24 8:30
LCS/CCV (7.0 Buffer)	wc240913c		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 μ S Std.	100029	1412	10/30/24 8:35

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.1	10/30/24 8:35
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity μ S	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	10/30/24 8:38	20.8	7.02	1,416	0.09		
CCV-2-JC	CCV	10/30/24 14:47	24.8	7.02	1,427	0.05		

Comments: _____

Site Sampling Event: COF- 24Q4
LIMS Workorder: 24101589
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
COFFEEN- 4Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

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 210771	Technician(s):	justin colp	Date:	10/31/2024		
pH Standards	LIMS ID	Calibration reading	Date/Time	Conductivity Standard	LIMS ID	Reading	Date/Time
4.0 Buffer	wc240612a	4.00	10/31/24 8:35	1,412 µS Std.	100029	1412	10/31/24 8:46
7.0 Buffer	wc240913b	7.00	10/31/24 8:30	Turbidity Standard	LIMS ID	Reading	Date/Time
10.0 Buffer	wc240625b	10.00	10/31/24 8:40	0 NTU (DI Water)	1	0.04	10/31/24 8:46
LCS/CCV (7.0 Buffer)	wc240913c			124 NTU	95834		
ORP Standard	LIMS ID/Lot#	Reading	Date/Time	D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
				100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-JC	LCS	10/31/24 8:48	20.9	7.01	1,414	0.04		
CCV-3-JC	CCV	10/31/24 14:41	21.9	7.03	1,432	0.02		

Comments:

Field Meter ID:	Pine 210771	Technician(s):	justin colp	Date:	11/4/2024		
pH Standards	LIMS ID	Calibration reading	Date/Time	Conductivity Standard	LIMS ID	Reading	Date/Time
4.0 Buffer	wc240612a	4.00	11/4/24 9:00	1,412 µS Std.	100029	1412	11/4/24 9:09
7.0 Buffer	wc240913b	7.00	11/4/24 8:54	Turbidity Standard	LIMS ID	Reading	Date/Time
10.0 Buffer	wc240625b	10.00	11/4/24 9:05	0 NTU (DI Water)	1	0.04	11/4/24 9:10
LCS/CCV (7.0 Buffer)	wc240913c			124 NTU	95834		
ORP Standard	LIMS ID/Lot#	Reading	Date/Time	D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
				100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-4-JC	LCS	11/4/24 9:12	20.7	6.99	1,411	0.05		
CCV-4-JC	CCV	11/4/24 14:14	23.1	7.04	1,419	0.11		

Comments:



Site Sampling Event: COF- 24Q4
LIMS Workorder: 24101589
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
COFFEEN- 4Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

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 210771 Technician(s): justin colp Date: 11/6/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc240612a	4.00	11/6/24 8:41
7.0 Buffer	wc240913b	7.00	11/6/24 8:37
10.0 Buffer	wc240625b	10.00	11/6/24 8:45
LCS/CCV (7.0 Buffer)	wc240913c		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 μ S Std.	100029	1412	11/6/24 8:51

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.23	11/6/24 8:51
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity μ S	Turbidity NTU	ORP mV	D.O. %
LCS-5-JC	LCS	11/6/24 8:55	15.2	6.98	1,414	0.21		
CCV-5-JC	CCV	11/6/24 14:19	18.8	7.04	1,428	0.42		

Comments: _____

Field Meter ID: Pine 210771 Technician(s): justin colp Date: 11/7/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc240612a	4.00	11/7/24 9:55
7.0 Buffer	wc240913b	7.00	11/7/24 9:50
10.0 Buffer	wc240625b	10.00	11/7/24 10:01
LCS/CCV (7.0 Buffer)	wc240913c		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 μ S Std.	100029	1413	11/7/24 10:06

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.29	11/7/24 10:06
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity μ S	Turbidity NTU	ORP mV	D.O. %
LCS-6-JC	LCS	11/7/24 10:09	16.1	7.01	1,417	0.3		
CCV-6-JC	CCV	11/7/24 13:11	16.5	7.02	1,425	0.35		

Comments: _____

Site Sampling Event: COF- 24Q4
LIMS Workorder: 24101589
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
COFFEEN- 4Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

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 45720 Technician(s): Tracy Carroll Date: 11/4/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.00	11/4/24 10:26
7.0 Buffer	WC240913B	7.03	11/4/24 10:26
10.0 Buffer	WC24000625B	10.07	11/4/24 10:31
LCS/CCV (7.0 Buffer)	WC240913C		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	100029	1412	11/4/24 10:33

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.45	11/4/24 10:41
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-TC	LCS	11/4/24 10:43	19	7.09	1,411	0.45		
CCV-1-TC	CCV	11/4/24 14:38	19.6	7.09	1,433	0.99		

Comments:

Field Meter ID: Pine 45720 Technician(s): Tracy Carroll Date: 11/6/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.00	11/6/24 9:07
7.0 Buffer	WC240913B	7.00	11/6/24 9:05
10.0 Buffer	WC24000625B	10.00	11/6/24 9:19
LCS/CCV (7.0 Buffer)	WC240913C		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	100029	1413	11/6/24 9:21

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-TC	LCS	11/6/24 9:26	12.7	7.06	1,412	0.65		
CCV-2-TC	CCV	11/6/24 14:29	18.3	6.97	1,444	0.36		

Comments:

Site Sampling Event: COF- 24Q4
LIMS Workorder: 24101589
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
COFFEEN- 4Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

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 45720	Technician(s):	Tracy Carroll	Date:	11/7/2024		
pH Standards	LIMS ID	Calibration reading	Date/Time	Conductivity Standard	LIMS ID	Reading	Date/Time
4.0 Buffer	WC240612A	4.02	11/7/24 12:37	1,412 µS Std.	100029	1412	11/7/24 12:41
7.0 Buffer	WC240913B	7.00	11/7/24 12:38	Turbidity Standard	LIMS ID	Reading	Date/Time
10.0 Buffer	WC24000625B	10.02	11/7/24 12:40	0 NTU (DI Water)	1		
LCS/CCV (7.0 Buffer)	WC240913C			124 NTU	95834		
ORP Standard	LIMS ID/Lot#	Reading	Date/Time	D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
				100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-TC	LCS	11/7/24 12:42	15.4	7.04	1,413	0.9		
CCV-3-TC	CCV	11/7/24 13:43	16.4	7.09	1,413	0.089		

Comments: _____

Site Sampling Event: COF- 24Q4
LIMS Workorder: 24101589
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
COFFEEN- 4Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

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 210760 Technician(s): Brett Gillihan Date: 10/29/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.00	10/29/24 8:50
7.0 Buffer	WC240913B	7.00	10/29/24 8:54
10.0 Buffer	WC24000625B	10.00	10/29/24 8:58
LCS/CCV (7.0 Buffer)	WC240913C		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 μ S Std.	100029	1412	10/29/24 9:01

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.6	10/29/24 9:05
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity μ S	Turbidity NTU	ORP mV	D.O. %
LCS-1-BG	LCS	10/29/24 9:08	18.4	7.00	1,413	1.6		
CCV-1-BG	CCV	10/29/24 14:56	19.9	7.06	1,420	1.8		

Comments:

Field Meter ID: Pine 210760 Technician(s): Brett Gillihan Date: 10/30/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	3.99	10/30/24 8:35
7.0 Buffer	WC240913B	7.00	10/30/24 8:32
10.0 Buffer	WC240625B	10.02	10/30/24 8:38
LCS/CCV (7.0 Buffer)	WC240913C		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 μ S Std.	100029	1418	10/30/24 8:40

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.7	10/30/24 8:43
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity μ S	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	10/30/24 8:45	18.6	7.00	1,418	1.7		
CCV-2-BG	CCV	10/30/24 14:21	22.2	6.99	1,418	1.7		

Comments:



Site Sampling Event: COF- 24Q4
LIMS Workorder: 24101589
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
COFFEEN- 4Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

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 210760	Technician(s):	Brett Gillihan	Date:	10/31/2024		
pH Standards	LIMS ID	Calibration reading	Date/Time	Conductivity Standard	LIMS ID	Reading	Date/Time
4.0 Buffer	WC240612A	4.01	10/31/24 8:36	1,412 µS Std.	100029	1419	10/31/24 8:42
7.0 Buffer	WC240913B	6.99	10/31/24 8:32	Turbidity Standard	LIMS ID	Reading	Date/Time
10.0 Buffer	WC24000625B	9.98	10/31/24 8:40	0 NTU (DI Water)	1	1.3	10/31/24 8:45
LCS/CCV (7.0 Buffer)	WC240913C			124 NTU	95834		
ORP Standard	LIMS ID/Lot#	Reading	Date/Time	D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
				100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-BG	LCS	10/31/24 8:47	18.3	6.99	1,419	1.3		
CCV-3-BG	CCV	10/31/24 1517	20.3	7.00	1,419	1.3		

Comments:

Field Meter ID:	Pine 210760	Technician(s):	Brett Gillihan	Date:	11/4/2024		
pH Standards	LIMS ID	Calibration reading	Date/Time	Conductivity Standard	LIMS ID	Reading	Date/Time
4.0 Buffer	WC240612A	4.00	11/4/24 9:18	1,412 µS Std.	100029	1420	11/4/24 9:23
7.0 Buffer	WC240913B	6.99	11/4/24 9:17	Turbidity Standard	LIMS ID	Reading	Date/Time
10.0 Buffer	WC24000625B	10.01	11/4/24 9:22	0 NTU (DI Water)	1	1.8	11/4/24 9:25
LCS/CCV (7.0 Buffer)	WC240913C			124 NTU	95834		
ORP Standard	LIMS ID/Lot#	Reading	Date/Time	D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
				100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-4-BG	LCS	11/4/24 9:28	17.1	7.00	1,419	1.3		
CCV-4-BG	CCV							

Comments:

Site Sampling Event: COF- 24Q4
LIMS Workorder: 24101589
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
COFFEEN- 4Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

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 210760 Technician(s): Brett Gillihan Date: 11/7/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.00	11/7/24 10:20
7.0 Buffer	WC240913B	6.98	11/7/24 10:17
10.0 Buffer	WC24000625B	10.01	11/7/24 10:23
LCS/CCV (7.0 Buffer)	WC240913C		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 μ S Std.		1412	11/7/24 10:31

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.7	11/7/24 10:35
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity μ S	Turbidity NTU	ORP mV	D.O. %
LCS-5-BG	LCS	11/7/24 10:35	17.8	6.99	1,412	1.7		
CCV-5	CCV	11/7/24 10:19	18.6	7.06	1,418	1.9		

Comments:



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

11669 Lilburn Park Rd.
St. Louis, MO 63146
Office: 314.344.1079

Pine Environmental Services, Inc.

Instrument ID 45720
Description YSI Pro DSS
Calibrated 10/22/2024 4:41:15PM

Manufacturer YSI
Model Number Pro DSS
Serial Number/ Lot Number 19E101794
Location St. Louis
Department

State Certified
Status Pass
Temp °C 22.2
Humidity % 43

Calibration Specifications

Group # 1
Group Name PH
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
7.00 / 7.00	PH	7.00	PH	7.58	7.00	0.00%	Pass
4.00 / 4.00	PH	4.00	PH	3.57	4.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	11.50	10.00	0.00%	Pass

Group # 2
Group Name Turbidity
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	NTU	0.00	NTU	4.19	0.00	0.00%	Pass
124.00 / 124.00	NTU	124.00	NTU	121.34	124.00	0.00%	Pass

Group # 3
Group Name Conductivity
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.000

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
1.413 / 1.413	ms/cm	1.413	ms/cm	1.247	1.413	0.00%	Pass

Group # 4
Group Name Redox (ORP)
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
240.00 / 240.00	mv	240.00	mv	269.50	240.00	0.00%	Pass

Group # 5
Group Name Dissolved Oxygen Span
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

11669 Lilburn Park Rd.
St. Louis, MO 63146
Office: 314.344.1079

Pine Environmental Services, Inc.

Instrument ID 45720
Description YSI Pro DSS
Calibrated 10/22/2024 4:41:15PM

Group # 5		Range Acc % 0.0000	
Group Name Dissolved Oxygen Span		Reading Acc % 3.0000	
Stated Accy Pct of Reading		Plus/Minus 0.00	
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>
100.00 / 100.00	%	100.00	%
		<u>End As</u>	<u>Lft As</u>
		99.20	100.00
		<u>Dev%</u>	<u>Pass/Fail</u>
		0.00%	Pass

<u>Test Instruments Used During the Calibration</u>					<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
STL 126NTU L#24E24011653	STL 126 NTU L#24E24011653	YSI	126 NTU	24E24011653		5/25/2025
STL 1413 COND L#4GB0749	STL 1413 COND L#4GB0749	AquaPhoenix Scientific	31986	4GB0749		2/25/2025
STL AUTOCAL LOT#24014218	Auto Cal Solution 0 NTU/PH 4	GFS	8483	24014218		9/25/2025
STL ORP SOLUTION 240MV L#4GG0438	STL ORP SOLUTION 240MV L#4GG0438	AquaPhoenix Scientific	ORP Solution	4GG0438		4/25/2025
STL PH10 #4GB0253	STL PH10 #4GB0253	Absolute Accuracy	PH 10	4GB0253		2/25/2026
STL PH4 L#4GB0637	STL pH4 L#4GB0637	AquaPhoenix Scientific	pH 4	4GB0637		2/25/2026
STL PH7 L#4GG1129	STL PH7 L#4GG1129	AquaPhoenix Scientific	PH7	4GG1129		7/25/2026

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Austin Carter

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

11669 Lilburn Park Rd.
St. Louis, MO 63146
Office: 314.344.1079

Pine Environmental Services, Inc.

Instrument ID 210760
Description YSI Pro DSS Sonde
Calibrated 10/24/2024 5:28:01PM

Manufacturer YSI
Model Number Pro DSS
Serial Number/ Lot Number 22C103125
Location St. Louis
Department

State Certified
Status Pass
Temp °C 22.2
Humidity % 43

Calibration Specifications

Group # 1
Group Name PH
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
7.00 / 7.00	PH	7.00	PH	7.20	7.00	0.00%	Pass
4.00 / 4.00	PH	4.00	PH	4.14	4.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	10.10	10.00	0.00%	Pass

Group # 2
Group Name Turbidity
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	NTU	0.00	NTU	0.16	0.00	0.00%	Pass
124.00 / 124.00	NTU	124.00	NTU	135.47	124.00	0.00%	Pass

Group # 3
Group Name Conductivity
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.000

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
1.413 / 1.413	ms/cm	1.413	ms/cm	1.484	1.413	0.00%	Pass

Group # 4
Group Name Redox (ORP)
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
240.00 / 240.00	mv	240.00	mv	235.60	240.00	0.00%	Pass

Group # 5
Group Name Dissolved Oxygen Span
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

11669 Lilburn Park Rd.
St. Louis, MO 63146
Office: 314.344.1079

Pine Environmental Services, Inc.

Instrument ID 210760
Description YSI Pro DSS Sonde
Calibrated 10/24/2024 5:28:01PM

Group # 5				Range Acc % 0.0000			
Group Name Dissolved Oxygen Span				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
100.00 / 100.00	%	100.00	%	98.90	100.00	0.00%	Pass

<u>Test Instruments Used During the Calibration</u>					<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Next Cal Date /</u>	
					<u>Last Cal Date/</u>	<u>Expiration Date</u>
STL 1413 COND L#4GB0749	STL 1413 COND L#4GB0749	AquaPhoenix Scientific	31986	4GB0749		2/25/2025
STL ORP SOLUTION 240MV L#4GG0438	STL ORP SOLUTION 240MV L#4GG0438	AquaPhoenix Scientific	ORP Solution	4GG0438		4/25/2025
STL PH10 #4GB0253	STL PH10 #4GB0253	Absolute Accuracy	PH 10	4GB0253		2/25/2026
STL PH4 L#4GB0637	STL pH4 L#4GB0637	AquaPhoenix Scientific	pH 4	4GB0637		2/25/2026
STL PH7 L#4GG1129	STL PH7 L#4GG1129	AquaPhoenix Scientific	PH7	4GG1129		7/25/2026

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Austin Carter

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

11669 Lilburn Park Rd.
St. Louis, MO 63146
Office: 314.344.1079

Pine Environmental Services, Inc.

Instrument ID 210771
Description YSI Pro DSS
Calibrated 10/22/2024 4:43:35PM

Manufacturer YSI
Model Number Pro DSS
Serial Number/ Lot Number 22C103115
Location St. Louis
Department

State Certified
Status Pass
Temp °C 22.2
Humidity % 43

Calibration Specifications							
Group # 1				Range Acc % 0.0000			
Group Name PH				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
7.00 / 7.00	PH	7.00	PH	7.00	7.00	0.00%	Pass
4.00 / 4.00	PH	4.00	PH	3.90	4.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	10.03	10.00	0.00%	Pass
Group # 2				Range Acc % 0.0000			
Group Name Turbidity				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	NTU	0.00	NTU	-0.68	0.00	0.00%	Pass
124.00 / 124.00	NTU	124.00	NTU	119.12	124.00	0.00%	Pass
Group # 3				Range Acc % 0.0000			
Group Name Conductivity				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.000			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
1.413 / 1.413	ms/cm	1.413	ms/cm	1.500	1.413	0.00%	Pass
Group # 4				Range Acc % 0.0000			
Group Name Redox (ORP)				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
240.00 / 240.00	mv	240.00	mv	230.90	240.00	0.00%	Pass
Group # 5				Range Acc % 0.0000			
Group Name Dissolved Oxygen Span				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

11669 Lilburn Park Rd.
St. Louis, MO 63146
Office: 314.344.1079

Pine Environmental Services, Inc.

Instrument ID 210771
Description YSI Pro DSS
Calibrated 10/22/2024 4:43:35PM

Group # 5				Range Acc % 0.0000			
Group Name Dissolved Oxygen Span				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
100.00 / 100.00	%	100.00	%	96.50	100.00	0.00%	Pass

Test Instruments Used During the Calibration					(As Of Cal Entry Date)	
Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date / Opened Date	Next Cal Date / Expiration Date
STL 126NTU L#24E24011653	STL 126 NTU L#24E24011653	YSI	126 NTU	24E24011653		5/25/2025
STL 1413 COND L#4GB0749	STL 1413 COND L#4GB0749	AquaPhoenix Scientific	31986	4GB0749		2/25/2025
STL AUTOCAL LOT#24014218	Auto Cal Solution 0 NTU/PH 4	GFS	8483	24014218		9/25/2025
STL ORP SOLUTION 240MV L#4GG0438	STL ORP SOLUTION 240MV L#4GG0438	AquaPhoenix Scientific	ORP Solution	4GG0438		4/25/2025
STL PH10 #4GB0253	STL PH10 #4GB0253	Absolute Accuracy	PH 10	4GB0253		2/25/2026
STL PH4 L#4GB0637	STL pH4 L#4GB0637	AquaPhoenix Scientific	pH 4	4GB0637		2/25/2026
STL PH7 L#4GG1129	STL PH7 L#4GG1129	AquaPhoenix Scientific	PH7	4GG1129		7/25/2026

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Austin Carter

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Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

December 19, 2024

Eric Bauer
Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
TEL: (414) 837-3607
FAX: (414) 837-3608



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: COF-24Q4

WorkOrder: 24101589

Dear Eric Bauer:

TEKLAB, INC received 21 samples for COF_845_101 on 11/7/2024 3:33:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

This reporting package includes the following:

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Case Narrative	5
Accreditations	6
Laboratory Results	7
Sample Summary	28
Quality Control Results	29
Receiving Check List	199
Chain of Custody	Appended

Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

Abbr Definition

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

Qualifiers

# - Unknown hydrocarbon	B - Analyte detected in associated Method Blank
C - RL shown is a Client Requested Quantitation Limit	E - Value above quantitation range
H - Holding times exceeded	I - Associated internal standard was outside method criteria
J - Analyte detected below quantitation limits	M - Manual Integration used to determine area response
ND - Not Detected at the Reporting Limit	R - RPD outside accepted recovery limits
S - Spike Recovery outside recovery limits	T - TIC(Tentatively identified compound)
X - Value exceeds Maximum Contaminant Level	



Case Narrative

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

Cooler Receipt Temp: 14.9 °C

An employee of Teklab, Inc. collected the sample(s).

Equipment Blanks were not needed (dedicated equipment, only, was employed).

Dates/times of collection per field file confirmation. EAH 11/14/24

Per Eric Bauer's request, only COF_845_101 data is included in this report. EAH 12/19/24

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-056

Client Sample ID: G281

Matrix: GROUNDWATER

Collection Date: 10/30/2024 14:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		9.39	ft	1	10/30/2024 14:25	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		58	NTU	1	10/30/2024 14:25	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-14	mV	1	10/30/2024 14:25	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1310	µS/cm	1	10/30/2024 14:25	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.9	°C	1	10/30/2024 14:25	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.07	mg/L	1	10/30/2024 14:25	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.98		1	10/30/2024 14:25	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		390	mg/L	1	10/31/2024 10:55	R355498
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	10/31/2024 10:55	R355498
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		966	mg/L	1	11/04/2024 15:34	R355707
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	10/31/2024 18:25	R355425
Chloride	NELAP	1.00	5.00		55.9	mg/L	10	10/31/2024 18:25	R355425
Sulfate	NELAP	3.00	10.0		317	mg/L	10	10/31/2024 18:25	R355425
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		142	mg/L	1	11/04/2024 18:29	230586
Magnesium	NELAP	0.006	0.050		62.7	mg/L	1	11/04/2024 18:29	230586
Potassium	NELAP	0.040	0.100		0.677	mg/L	1	11/04/2024 18:29	230586
Sodium	NELAP	0.018	0.050		101	mg/L	1	11/05/2024 15:12	230586
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/15/2024 16:50	230586
Arsenic	NELAP	0.4	1.0	J	0.5	µg/L	5	11/12/2024 19:06	230586
Barium	NELAP	0.7	1.0		68.7	µg/L	5	11/15/2024 5:41	230586
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/08/2024 21:51	230586
Boron	NELAP	9.2	20.0		< 20.0	µg/L	5	11/12/2024 19:06	230586
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/12/2024 19:06	230586
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/08/2024 21:51	230586
Cobalt	NELAP	0.1	1.0	J	0.6	µg/L	5	11/08/2024 21:51	230586
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/08/2024 21:51	230586
Lithium	*	1.4	3.0		4.9	µg/L	5	11/08/2024 21:51	230586
Molybdenum	NELAP	0.6	1.5	J	1.1	µg/L	5	11/13/2024 19:07	230586
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/12/2024 19:06	230586
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/08/2024 21:51	230586
CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/04/2024 13:30	230598



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-060

Client Sample ID: G301

Matrix: GROUNDWATER

Collection Date: 11/07/2024 13:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		7.30	ft	1	11/07/2024 13:18	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.4	NTU	1	11/07/2024 13:18	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		148	mV	1	11/07/2024 13:18	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		972	µS/cm	1	11/07/2024 13:18	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.7	°C	1	11/07/2024 13:18	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.99	mg/L	1	11/07/2024 13:18	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.60		1	11/07/2024 13:18	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		159	mg/L	1	11/11/2024 9:31	R355953
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/11/2024 9:31	R355953
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		872	mg/L	1	11/12/2024 14:40	R356118
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	11/08/2024 22:02	R355845
Chloride	NELAP	1.00	5.00		10.8	mg/L	10	11/08/2024 22:02	R355845
Sulfate	NELAP	3.00	10.0		460	mg/L	10	11/08/2024 22:02	R355845
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		107	mg/L	1	11/11/2024 15:15	230949
Magnesium	NELAP	0.006	0.050		40.2	mg/L	1	11/11/2024 15:15	230949
Potassium	NELAP	0.040	0.100		1.85	mg/L	1	11/11/2024 15:15	230949
Sodium	NELAP	0.018	0.050	B	111	mg/L	1	11/11/2024 15:15	230949
<i>Sample result(s) for Na exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0	J	0.5	µg/L	5	11/16/2024 8:57	230949
Arsenic	NELAP	0.4	1.0		< 1.0	µg/L	5	11/15/2024 0:20	230949
Barium	NELAP	0.7	1.0		14.0	µg/L	5	11/19/2024 4:13	230949
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/15/2024 0:20	230949
Boron	NELAP	9.2	20.0		2130	µg/L	5	11/15/2024 0:20	230949
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/15/2024 0:20	230949
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/15/2024 0:20	230949
Cobalt	NELAP	0.1	1.0		1.4	µg/L	5	11/15/2024 0:20	230949
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/16/2024 8:57	230949
Lithium	*	1.4	3.0		4.9	µg/L	5	11/15/2024 0:20	230949
Molybdenum	NELAP	0.6	1.5	J	0.7	µg/L	5	11/15/2024 0:20	230949
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/15/2024 0:20	230949
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/15/2024 0:20	230949
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/12/2024 16:35	230944



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-061

Client Sample ID: G302

Matrix: GROUNDWATER

Collection Date: 11/06/2024 11:58

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.28	ft	1	11/06/2024 11:58	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		20	NTU	1	11/06/2024 11:58	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-40	mV	1	11/06/2024 11:58	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1270	µS/cm	1	11/06/2024 11:58	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.5	°C	1	11/06/2024 11:58	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.69	mg/L	1	11/06/2024 11:58	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.56		1	11/06/2024 11:58	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		454	mg/L	1	11/07/2024 11:54	R355910
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/07/2024 11:54	R355910
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1100	mg/L	1	11/11/2024 14:05	R356046
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	11/08/2024 10:34	R355845
Chloride	NELAP	1.00	5.00		14.7	mg/L	10	11/08/2024 10:34	R355845
Sulfate	NELAP	3.00	10.0		523	mg/L	10	11/08/2024 10:34	R355845
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		188	mg/L	1	11/12/2024 12:37	230877
Magnesium	NELAP	0.006	0.050		77.2	mg/L	1	11/12/2024 12:37	230877
Potassium	NELAP	0.040	0.100		0.718	mg/L	1	11/12/2024 12:37	230877
Sodium	NELAP	0.018	0.050		133	mg/L	1	11/12/2024 12:37	230877
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 11:59	230877
Arsenic	NELAP	0.4	1.0	J	0.9	µg/L	5	11/19/2024 5:34	230877
Barium	NELAP	0.7	1.0		34.0	µg/L	5	11/19/2024 5:34	230877
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 21:43	230877
Boron	NELAP	9.2	20.0		2560	µg/L	5	11/14/2024 21:43	230877
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 21:43	230877
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/14/2024 21:43	230877
Cobalt	NELAP	0.1	1.0		1.6	µg/L	5	11/19/2024 5:34	230877
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/19/2024 5:34	230877
Lithium	*	1.4	3.0		14.3	µg/L	5	11/14/2024 21:43	230877
Molybdenum	NELAP	0.6	1.5	J	0.9	µg/L	5	11/14/2024 21:43	230877
Selenium	NELAP	0.6	1.0	J	0.8	µg/L	5	11/14/2024 21:43	230877
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/14/2024 21:43	230877
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/11/2024 17:54	230159



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-062

Client Sample ID: G303

Matrix: GROUNDWATER

Collection Date: 11/06/2024 13:48

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		7.65	ft	1	11/06/2024 13:48	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		14	NTU	1	11/06/2024 13:48	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-92	mV	1	11/06/2024 13:48	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1610	µS/cm	1	11/06/2024 13:48	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.1	°C	1	11/06/2024 13:48	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.86	mg/L	1	11/06/2024 13:48	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.74		1	11/06/2024 13:48	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		607	mg/L	1	11/07/2024 12:27	R355910
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/07/2024 12:27	R355910
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1690	mg/L	1	11/11/2024 14:06	R356046
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	11/08/2024 10:46	R355845
Chloride	NELAP	1.00	5.00		25.4	mg/L	10	11/08/2024 10:46	R355845
Sulfate	NELAP	3.00	10.0		688	mg/L	10	11/08/2024 10:46	R355845
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		174	mg/L	1	11/12/2024 12:37	230877
Magnesium	NELAP	0.006	0.050		141	mg/L	1	11/12/2024 12:37	230877
Potassium	NELAP	0.040	0.100		2.35	mg/L	1	11/12/2024 12:37	230877
Sodium	NELAP	0.018	0.050		167	mg/L	1	11/12/2024 12:37	230877
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 12:05	230877
Arsenic	NELAP	0.4	1.0		2.4	µg/L	5	11/19/2024 5:40	230877
Barium	NELAP	0.7	1.0		21.0	µg/L	5	11/19/2024 5:40	230877
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 21:49	230877
Boron	NELAP	9.2	20.0		2500	µg/L	5	11/14/2024 21:49	230877
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 21:49	230877
Chromium	NELAP	0.7	1.5		1.8	µg/L	5	11/14/2024 21:49	230877
Cobalt	NELAP	0.1	1.0		2.0	µg/L	5	11/19/2024 5:40	230877
Lead	NELAP	0.6	1.0	J	0.8	µg/L	5	11/19/2024 5:40	230877
Lithium	*	1.4	3.0		33.2	µg/L	5	11/14/2024 21:49	230877
Molybdenum	NELAP	0.6	1.5		1.8	µg/L	5	11/19/2024 5:40	230877
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/14/2024 21:49	230877
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/14/2024 21:49	230877
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/11/2024 17:56	230159



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-063

Client Sample ID: G305

Matrix: GROUNDWATER

Collection Date: 11/06/2024 13:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.12	ft	1	11/06/2024 13:20	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		1.2	NTU	1	11/06/2024 13:20	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-31	mV	1	11/06/2024 13:20	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1330	µS/cm	1	11/06/2024 13:20	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.2	°C	1	11/06/2024 13:20	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.13	mg/L	1	11/06/2024 13:20	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		7.06		1	11/06/2024 13:20	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		245	mg/L	1	11/07/2024 12:22	R355910
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/07/2024 12:22	R355910
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1470	mg/L	1	11/11/2024 14:06	R356046
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50	J	0.39	mg/L	10	11/08/2024 10:57	R355845
Chloride	NELAP	1.00	5.00		14.4	mg/L	10	11/08/2024 10:57	R355845
Sulfate	NELAP	3.00	10.0		819	mg/L	10	11/08/2024 10:57	R355845
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		177	mg/L	1	11/12/2024 12:38	230877
Magnesium	NELAP	0.006	0.050		99.5	mg/L	1	11/12/2024 12:38	230877
Potassium	NELAP	0.040	0.100		0.542	mg/L	1	11/12/2024 12:38	230877
Sodium	NELAP	0.018	0.050		133	mg/L	1	11/12/2024 12:38	230877
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 12:11	230877
Arsenic	NELAP	0.4	1.0	J	0.5	µg/L	5	11/19/2024 5:46	230877
Barium	NELAP	0.7	1.0		26.6	µg/L	5	11/19/2024 5:46	230877
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 21:55	230877
Boron	NELAP	9.2	20.0		2620	µg/L	5	11/14/2024 21:55	230877
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 21:55	230877
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/14/2024 21:55	230877
Cobalt	NELAP	0.1	1.0	J	0.3	µg/L	5	11/19/2024 5:46	230877
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/16/2024 12:11	230877
Lithium	*	1.4	3.0		6.7	µg/L	5	11/14/2024 21:55	230877
Molybdenum	NELAP	0.6	1.5	J	1.0	µg/L	5	11/14/2024 21:55	230877
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/14/2024 21:55	230877
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/14/2024 21:55	230877
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/11/2024 18:04	230159



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-064

Client Sample ID: G306

Matrix: GROUNDWATER

Collection Date: 11/04/2024 10:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		11.06	ft	1	11/04/2024 10:19	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		50	NTU	1	11/04/2024 10:19	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		84	mV	1	11/04/2024 10:19	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		724	µS/cm	1	11/04/2024 10:19	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.9	°C	1	11/04/2024 10:19	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.70	mg/L	1	11/04/2024 10:19	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.15		1	11/04/2024 10:19	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		247	mg/L	1	11/05/2024 13:53	R355706
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/05/2024 13:53	R355706
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		598	mg/L	1	11/07/2024 12:52	R355895
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	11/06/2024 4:42	R355616
Chloride	NELAP	1.0	5.0	J	2.0	mg/L	10	11/06/2024 4:42	R355616
Sulfate	NELAP	3.00	10.0		122	mg/L	10	11/06/2024 4:42	R355616
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		85.0	mg/L	1	11/06/2024 16:21	230732
Magnesium	NELAP	0.006	0.050		33.8	mg/L	1	11/06/2024 16:21	230732
Potassium	NELAP	0.040	0.100		0.376	mg/L	1	11/06/2024 16:21	230732
Sodium	NELAP	0.018	0.050		36.4	mg/L	1	11/06/2024 16:21	230732
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 4:37	230732
Arsenic	NELAP	0.4	1.0		< 1.0	µg/L	5	11/14/2024 17:29	230732
Barium	NELAP	0.7	1.0		37.7	µg/L	5	11/14/2024 17:29	230732
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 17:29	230732
Boron	NELAP	9.2	20.0		2070	µg/L	5	11/20/2024 12:01	230732
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 17:29	230732
Chromium	NELAP	0.7	1.5	J	1.5	µg/L	5	11/14/2024 17:29	230732
Cobalt	NELAP	0.1	1.0	J	0.4	µg/L	5	11/14/2024 17:29	230732
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/09/2024 10:58	230732
Lithium	*	1.4	3.0		4.4	µg/L	5	11/20/2024 12:01	230732
Molybdenum	NELAP	0.6	1.5		< 1.5	µg/L	5	11/14/2024 17:29	230732
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/14/2024 17:29	230732
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/09/2024 10:58	230732
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/06/2024 9:59	230733



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-065

Client Sample ID: G307

Matrix: GROUNDWATER

Collection Date: 11/04/2024 11:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		7.05	ft	1	11/04/2024 11:19	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		7.8	NTU	1	11/04/2024 11:19	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-120	mV	1	11/04/2024 11:19	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1070	µS/cm	1	11/04/2024 11:19	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.5	°C	1	11/04/2024 11:19	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.19	mg/L	1	11/04/2024 11:19	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.78		1	11/04/2024 11:19	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		184	mg/L	1	11/05/2024 14:55	R355706
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/05/2024 14:55	R355706
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	80	100		930	mg/L	5	11/07/2024 12:52	R355895
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50	J	0.26	mg/L	10	11/06/2024 4:53	R355616
Chloride	NELAP	1.00	5.00		9.48	mg/L	10	11/06/2024 4:53	R355616
Sulfate	NELAP	3.00	10.0		432	mg/L	10	11/06/2024 4:53	R355616
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		179	mg/L	1	11/06/2024 16:39	230732
Magnesium	NELAP	0.006	0.050		61.4	mg/L	1	11/06/2024 16:39	230732
Potassium	NELAP	0.040	0.100		7.05	mg/L	1	11/06/2024 16:39	230732
Sodium	NELAP	0.018	0.050		78.5	mg/L	1	11/06/2024 16:39	230732
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 4:43	230732
Arsenic	NELAP	0.4	1.0		7.4	µg/L	5	11/14/2024 17:35	230732
Barium	NELAP	0.7	1.0		264	µg/L	5	11/14/2024 17:35	230732
Beryllium	NELAP	0.2	1.0		1.4	µg/L	5	11/14/2024 17:35	230732
Boron	NELAP	9.2	20.0		2100	µg/L	5	11/20/2024 12:07	230732
Cadmium	NELAP	0.2	1.0	J	0.3	µg/L	5	11/14/2024 17:35	230732
Chromium	NELAP	0.7	1.5		25.1	µg/L	5	11/14/2024 17:35	230732
Cobalt	NELAP	0.1	1.0		9.3	µg/L	5	11/14/2024 17:35	230732
Lead	NELAP	0.6	1.0		15.1	µg/L	5	11/09/2024 11:04	230732
Lithium	*	1.4	3.0		15.9	µg/L	5	11/20/2024 12:07	230732
Molybdenum	NELAP	0.6	1.5		2.3	µg/L	5	12/11/2024 10:27	232040
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/14/2024 17:35	230732
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/09/2024 11:04	230732
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.11	0.40		13.5	µg/L	2	11/06/2024 10:46	230733



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-066

Client Sample ID: G307D

Matrix: GROUNDWATER

Collection Date: 11/04/2024 10:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		12.33	ft	1	11/04/2024 10:56	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		14	NTU	1	11/04/2024 10:56	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-106	mV	1	11/04/2024 10:56	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1300	µS/cm	1	11/04/2024 10:56	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.0	°C	1	11/04/2024 10:56	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.81	mg/L	1	11/04/2024 10:56	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		7.00		1	11/04/2024 10:56	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		263	mg/L	1	11/05/2024 13:59	R355706
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/05/2024 13:59	R355706
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		960	mg/L	2.5	11/07/2024 12:52	R355895
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		0.69	mg/L	10	11/06/2024 9:57	R355714
Chloride	NELAP	1.00	5.00		13.6	mg/L	10	11/06/2024 9:57	R355714
Sulfate	NELAP	3.00	10.0		500	mg/L	10	11/06/2024 9:57	R355714
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		136	mg/L	1	11/06/2024 16:40	230732
Magnesium	NELAP	0.006	0.050		60.1	mg/L	1	11/06/2024 16:40	230732
Potassium	NELAP	0.040	0.100		0.784	mg/L	1	11/06/2024 16:40	230732
Sodium	NELAP	0.018	0.050		100	mg/L	1	11/06/2024 16:40	230732
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 4:49	230732
Arsenic	NELAP	0.4	1.0		2.2	µg/L	5	12/13/2024 10:34	232040
Barium	NELAP	0.7	1.0		24.8	µg/L	5	11/19/2024 20:21	230732
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 17:41	230732
Boron	NELAP	9.2	20.0		1380	µg/L	5	12/11/2024 11:28	232040
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 17:41	230732
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/14/2024 17:41	230732
Cobalt	NELAP	0.1	1.0		< 1.0	µg/L	5	11/14/2024 17:41	230732
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/09/2024 11:10	230732
Lithium	*	1.4	3.0		< 3.0	µg/L	5	11/20/2024 12:12	230732
Molybdenum	NELAP	0.6	1.5		5.5	µg/L	5	12/11/2024 11:28	232040
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/14/2024 17:41	230732
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/09/2024 11:10	230732
CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/06/2024 10:04	230733



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-067

Client Sample ID: G308

Matrix: GROUNDWATER

Collection Date: 11/04/2024 11:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		5.62	ft	1	11/04/2024 11:56	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		17	NTU	1	11/04/2024 11:56	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-15	mV	1	11/04/2024 11:56	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1680	µS/cm	1	11/04/2024 11:56	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.1	°C	1	11/04/2024 11:56	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.03	mg/L	1	11/04/2024 11:56	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.91		1	11/04/2024 11:56	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		277	mg/L	1	11/05/2024 14:05	R355706
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/05/2024 14:05	R355706
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		600	mg/L	1	11/07/2024 12:53	R355895
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		0.52	mg/L	10	11/06/2024 10:09	R355714
Chloride	NELAP	1.00	5.00		8.50	mg/L	10	11/06/2024 10:09	R355714
Sulfate	NELAP	3.00	10.0		849	mg/L	10	11/06/2024 10:09	R355714
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		189	mg/L	1	11/06/2024 16:42	230732
Magnesium	NELAP	0.006	0.050		111	mg/L	1	11/06/2024 16:42	230732
Potassium	NELAP	0.040	0.100		0.416	mg/L	1	11/06/2024 16:42	230732
Sodium	NELAP	0.018	0.050		131	mg/L	1	11/06/2024 16:42	230732
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0	J	0.8	µg/L	5	11/16/2024 4:55	230732
Arsenic	NELAP	0.4	1.0	J	0.7	µg/L	5	11/14/2024 19:00	230732
Barium	NELAP	0.7	1.0		18.0	µg/L	5	11/14/2024 19:00	230732
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 19:00	230732
Boron	NELAP	9.2	20.0		2930	µg/L	5	11/14/2024 19:00	230732
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 19:00	230732
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/14/2024 19:00	230732
Cobalt	NELAP	0.1	1.0	J	0.3	µg/L	5	11/14/2024 19:00	230732
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/09/2024 12:05	230732
Lithium	*	1.4	3.0		6.8	µg/L	5	11/20/2024 12:18	230732
Molybdenum	NELAP	0.6	1.5		2.8	µg/L	5	11/14/2024 19:00	230732
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/14/2024 19:00	230732
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/09/2024 12:05	230732
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/06/2024 10:06	230733



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-068

Client Sample ID: G310

Matrix: GROUNDWATER

Collection Date: 11/06/2024 11:21

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.14	ft	1	11/06/2024 11:21	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		1.4	NTU	1	11/06/2024 11:21	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		46	mV	1	11/06/2024 11:21	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1030	µS/cm	1	11/06/2024 11:21	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.6	°C	1	11/06/2024 11:21	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.29	mg/L	1	11/06/2024 11:21	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.90		1	11/06/2024 11:21	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		243	mg/L	1	11/07/2024 12:08	R355910
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/07/2024 12:08	R355910
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1050	mg/L	1	11/11/2024 14:06	R356046
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50	J	0.21	mg/L	10	11/08/2024 11:32	R355845
Chloride	NELAP	1.00	5.00		10.7	mg/L	10	11/08/2024 11:32	R355845
Sulfate	NELAP	3.00	10.0		523	mg/L	10	11/08/2024 11:32	R355845
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		140	mg/L	1	11/12/2024 12:39	230877
Magnesium	NELAP	0.006	0.050		45.9	mg/L	1	11/12/2024 12:39	230877
Potassium	NELAP	0.040	0.100		0.349	mg/L	1	11/12/2024 12:39	230877
Sodium	NELAP	0.018	0.050		128	mg/L	1	11/12/2024 12:39	230877
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 12:18	230877
Arsenic	NELAP	0.4	1.0		< 1.0	µg/L	5	11/19/2024 5:52	230877
Barium	NELAP	0.7	1.0		17.1	µg/L	5	11/19/2024 5:52	230877
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 22:01	230877
Boron	NELAP	9.2	20.0		2170	µg/L	5	11/14/2024 22:01	230877
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 22:01	230877
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/14/2024 22:01	230877
Cobalt	NELAP	0.1	1.0		1.5	µg/L	5	11/19/2024 5:52	230877
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/16/2024 12:18	230877
Lithium	*	1.4	3.0		7.1	µg/L	5	11/14/2024 22:01	230877
Molybdenum	NELAP	0.6	1.5		< 1.5	µg/L	5	11/14/2024 22:01	230877
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/14/2024 22:01	230877
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/14/2024 22:01	230877
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/11/2024 18:12	230159



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-069

Client Sample ID: G312

Matrix: GROUNDWATER

Collection Date: 11/06/2024 12:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.80	ft	1	11/06/2024 12:52	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.5	NTU	1	11/06/2024 12:52	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		79	mV	1	11/06/2024 12:52	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1770	µS/cm	1	11/06/2024 12:52	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.9	°C	1	11/06/2024 12:52	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.90	mg/L	1	11/06/2024 12:52	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.29		1	11/06/2024 12:52	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		545	mg/L	1	11/07/2024 12:14	R355910
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/07/2024 12:14	R355910
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1820	mg/L	1	11/11/2024 15:10	R356046
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50	J	0.31	mg/L	10	11/08/2024 11:44	R355845
Chloride	NELAP	1.00	5.00		22.6	mg/L	10	11/08/2024 11:44	R355845
Sulfate	NELAP	3.00	10.0		825	mg/L	10	11/08/2024 11:44	R355845
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		211	mg/L	1	11/12/2024 12:39	230877
Magnesium	NELAP	0.006	0.050		147	mg/L	1	11/12/2024 12:39	230877
Potassium	NELAP	0.040	0.100		1.10	mg/L	1	11/12/2024 12:39	230877
Sodium	NELAP	0.018	0.050		180	mg/L	1	11/12/2024 12:39	230877
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 12:24	230877
Arsenic	NELAP	0.4	1.0	J	0.6	µg/L	5	11/14/2024 19:06	230877
Barium	NELAP	0.7	1.0		36.7	µg/L	5	11/19/2024 5:58	230877
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 19:06	230877
Boron	NELAP	9.2	20.0		3750	µg/L	5	11/14/2024 19:06	230877
Cadmium	NELAP	0.2	1.0	J	0.2	µg/L	5	11/14/2024 19:06	230877
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/14/2024 19:06	230877
Cobalt	NELAP	0.1	1.0		2.8	µg/L	5	11/14/2024 19:06	230877
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/19/2024 5:58	230877
Lithium	*	1.4	3.0		17.5	µg/L	5	11/14/2024 19:06	230877
Molybdenum	NELAP	0.6	1.5	J	1.2	µg/L	5	11/19/2024 5:58	230877
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/14/2024 19:06	230877
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/14/2024 19:06	230877
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/11/2024 18:15	230159



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-070

Client Sample ID: G313

Matrix: GROUNDWATER

Collection Date: 11/07/2024 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		3.69	ft	1	11/07/2024 11:40	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		19	NTU	1	11/07/2024 11:40	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		36	mV	1	11/07/2024 11:40	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1400	µS/cm	1	11/07/2024 11:40	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.1	°C	1	11/07/2024 11:40	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.45	mg/L	1	11/07/2024 11:40	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.67		1	11/07/2024 11:40	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		486	mg/L	1	11/12/2024 10:09	R356037
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/12/2024 10:09	R356037
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1480	mg/L	1	11/12/2024 14:40	R356118
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	11/08/2024 22:14	R355845
Chloride	NELAP	1.00	5.00		18.0	mg/L	10	11/08/2024 22:14	R355845
Sulfate	NELAP	3.00	10.0		648	mg/L	10	11/08/2024 22:14	R355845
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		196	mg/L	1	11/11/2024 16:10	230949
Magnesium	NELAP	0.006	0.050		99.5	mg/L	1	11/11/2024 16:10	230949
Potassium	NELAP	0.040	0.100		1.17	mg/L	1	11/14/2024 9:55	230949
Sodium	NELAP	0.018	0.050	B	150	mg/L	1	11/11/2024 16:10	230949
<i>Sample result(s) for Na exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.</i>									
<i>Sample result(s) for Na exceed 10 times the CCB. Data is reportable per the TNI Standard.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 9:03	230949
Arsenic	NELAP	0.4	1.0		< 1.0	µg/L	5	11/15/2024 0:26	230949
Barium	NELAP	0.7	1.0		18.7	µg/L	5	11/19/2024 4:19	230949
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/15/2024 0:26	230949
Boron	NELAP	9.2	20.0		3430	µg/L	5	11/15/2024 0:26	230949
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/15/2024 0:26	230949
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/15/2024 0:26	230949
Cobalt	NELAP	0.1	1.0	J	0.7	µg/L	5	11/15/2024 0:26	230949
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/16/2024 9:03	230949
Lithium	*	1.4	3.0		19.6	µg/L	5	11/15/2024 0:26	230949
Molybdenum	NELAP	0.6	1.5	J	1.4	µg/L	5	11/16/2024 9:03	230949
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/15/2024 0:26	230949
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/15/2024 0:26	230949
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/12/2024 16:38	230944



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-071

Client Sample ID: G314

Matrix: GROUNDWATER

Collection Date: 11/06/2024 14:11

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.05	ft	1	11/06/2024 14:11	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		32	NTU	1	11/06/2024 14:11	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-96	mV	1	11/06/2024 14:11	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2980	µS/cm	1	11/06/2024 14:11	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.8	°C	1	11/06/2024 14:11	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.05	mg/L	1	11/06/2024 14:11	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.44		1	11/06/2024 14:11	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		701	mg/L	1	11/07/2024 12:01	R355910
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/07/2024 12:01	R355910
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		3820	mg/L	2.5	11/11/2024 15:10	R356046
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	11/08/2024 11:56	R355845
Chloride	NELAP	1.00	5.00		31.2	mg/L	10	11/08/2024 11:56	R355845
Sulfate	NELAP	3.00	10.0		2250	mg/L	10	11/08/2024 11:56	R355845
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		607	mg/L	1	11/12/2024 13:40	230877
Magnesium	NELAP	0.006	0.050		289	mg/L	1	11/12/2024 13:40	230877
Potassium	NELAP	0.040	0.100		4.27	mg/L	1	11/12/2024 13:40	230877
Sodium	NELAP	0.018	0.050		146	mg/L	1	11/12/2024 13:40	230877
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 12:30	230877
Arsenic	NELAP	0.4	1.0		1.1	µg/L	5	11/19/2024 6:03	230877
Barium	NELAP	0.7	1.0		20.2	µg/L	5	11/19/2024 6:03	230877
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 22:07	230877
Boron	NELAP	9.2	20.0		170	µg/L	5	11/14/2024 22:07	230877
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 22:07	230877
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/14/2024 22:07	230877
Cobalt	NELAP	0.1	1.0		2.7	µg/L	5	11/19/2024 6:03	230877
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/19/2024 6:03	230877
Lithium	*	1.4	3.0		6.3	µg/L	5	11/14/2024 22:07	230877
Molybdenum	NELAP	0.6	1.5	J	1.0	µg/L	5	11/14/2024 22:07	230877
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/14/2024 22:07	230877
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/14/2024 22:07	230877
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/11/2024 18:17	230159



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-072

Client Sample ID: G314D

Matrix: GROUNDWATER

Collection Date: 11/04/2024 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		8.56	ft	1	11/04/2024 13:50	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		320	NTU	1	11/04/2024 13:50	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-94	mV	1	11/04/2024 13:50	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		2780	µS/cm	1	11/04/2024 13:50	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.8	°C	1	11/04/2024 13:50	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.48	mg/L	1	11/04/2024 13:50	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.69		1	11/04/2024 13:50	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		729	mg/L	1	11/05/2024 14:29	R355706
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/05/2024 14:29	R355706
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		2450	mg/L	1	11/07/2024 12:55	R355895
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50	J	0.46	mg/L	10	11/06/2024 10:44	R355714
Chloride	NELAP	1.00	5.00		50.5	mg/L	10	11/06/2024 10:44	R355714
Sulfate	NELAP	3.00	10.0		1190	mg/L	10	11/06/2024 10:44	R355714
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		307	mg/L	1	11/06/2024 16:44	230732
Magnesium	NELAP	0.006	0.050		107	mg/L	1	11/06/2024 16:44	230732
Potassium	NELAP	0.040	0.100		3.10	mg/L	1	11/06/2024 16:44	230732
Sodium	NELAP	0.018	0.050		375	mg/L	1	11/06/2024 16:44	230732
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 5:44	230732
Arsenic	NELAP	0.4	1.0		10.3	µg/L	5	11/14/2024 19:12	230732
Barium	NELAP	0.7	1.0		31.5	µg/L	5	11/14/2024 19:12	230732
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 19:12	230732
Boron	NELAP	9.2	20.0		218	µg/L	5	11/14/2024 19:12	230732
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 19:12	230732
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/14/2024 19:12	230732
Cobalt	NELAP	0.1	1.0		4.8	µg/L	5	11/14/2024 19:12	230732
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/09/2024 12:11	230732
Lithium	*	1.4	3.0		10.8	µg/L	5	11/20/2024 12:24	230732
Molybdenum	NELAP	0.6	1.5		4.5	µg/L	5	11/14/2024 19:12	230732
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/14/2024 19:12	230732
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/09/2024 12:11	230732
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/06/2024 10:13	230733



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-073

Client Sample ID: G315

Matrix: GROUNDWATER

Collection Date: 11/04/2024 13:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		3.17	ft	1	11/04/2024 13:16	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		5.5	NTU	1	11/04/2024 13:16	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		44	mV	1	11/04/2024 13:16	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1250	µS/cm	1	11/04/2024 13:16	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.1	°C	1	11/04/2024 13:16	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.66	mg/L	1	11/04/2024 13:16	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.61		1	11/04/2024 13:16	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		274	mg/L	1	11/05/2024 15:01	R355706
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/05/2024 15:01	R355706
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		1060	mg/L	1	11/07/2024 12:56	R355895
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	11/06/2024 10:55	R355714
Chloride	NELAP	1.00	5.00		12.4	mg/L	10	11/06/2024 10:55	R355714
Sulfate	NELAP	3.00	10.0		505	mg/L	10	11/06/2024 10:55	R355714
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		137	mg/L	1	11/06/2024 16:59	230732
Magnesium	NELAP	0.006	0.050		61.0	mg/L	1	11/06/2024 16:59	230732
Potassium	NELAP	0.040	0.100		0.288	mg/L	1	11/06/2024 16:59	230732
Sodium	NELAP	0.018	0.050		99.0	mg/L	1	11/06/2024 16:59	230732
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 5:50	230732
Arsenic	NELAP	0.4	1.0	J	0.4	µg/L	5	11/14/2024 19:18	230732
Barium	NELAP	0.7	1.0		19.2	µg/L	5	11/14/2024 19:18	230732
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 19:18	230732
Boron	NELAP	9.2	20.0		1510	µg/L	5	11/14/2024 19:18	230732
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 19:18	230732
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/14/2024 19:18	230732
Cobalt	NELAP	0.1	1.0	J	0.8	µg/L	5	11/14/2024 19:18	230732
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/09/2024 12:17	230732
Lithium	*	1.4	3.0		4.7	µg/L	5	11/20/2024 12:29	230732
Molybdenum	NELAP	0.6	1.5	J	0.7	µg/L	5	11/14/2024 19:18	230732
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/14/2024 19:18	230732
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/09/2024 12:17	230732
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/06/2024 10:15	230733



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-074

Client Sample ID: G316

Matrix: GROUNDWATER

Collection Date: 11/04/2024 12:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		11.01	ft	1	11/04/2024 12:36	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		59	NTU	1	11/04/2024 12:36	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		-116	mV	1	11/04/2024 12:36	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1990	µS/cm	1	11/04/2024 12:36	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.6	°C	1	11/04/2024 12:36	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.77	mg/L	1	11/04/2024 12:36	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		7.01		1	11/04/2024 12:36	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		735	mg/L	1	11/05/2024 14:11	R355706
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/05/2024 14:11	R355706
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		1380	mg/L	2.5	11/07/2024 12:56	R355895
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50	J	0.22	mg/L	10	11/06/2024 11:07	R355714
Chloride	NELAP	1.00	5.00		22.9	mg/L	10	11/06/2024 11:07	R355714
Sulfate	NELAP	3.00	10.0		634	mg/L	10	11/06/2024 11:07	R355714
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		202	mg/L	1	11/06/2024 17:01	230732
Magnesium	NELAP	0.006	0.050		160	mg/L	1	11/06/2024 17:01	230732
Potassium	NELAP	0.040	0.100		2.29	mg/L	1	11/06/2024 17:01	230732
Sodium	NELAP	0.018	0.050		119	mg/L	1	11/06/2024 17:01	230732
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 5:56	230732
Arsenic	NELAP	0.4	1.0		10.2	µg/L	5	11/14/2024 19:24	230732
Barium	NELAP	0.7	1.0		74.5	µg/L	5	11/14/2024 19:24	230732
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 19:24	230732
Boron	NELAP	9.2	20.0		491	µg/L	5	11/14/2024 19:24	230732
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/14/2024 19:24	230732
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/14/2024 19:24	230732
Cobalt	NELAP	0.1	1.0		3.2	µg/L	5	11/14/2024 19:24	230732
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/09/2024 12:23	230732
Lithium	*	1.4	3.0	J	1.5	µg/L	5	11/20/2024 13:48	230732
Molybdenum	NELAP	0.6	1.5		6.8	µg/L	5	11/14/2024 19:24	230732
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/14/2024 19:24	230732
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/09/2024 12:23	230732
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/06/2024 10:17	230733



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab ID: 24101589-089

Client Sample ID: SG-02

Matrix: GROUNDWATER

Collection Date: 10/29/2024 9:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		6.17	ft	1	10/29/2024 9:56	R356135



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101589-090
Matrix: GROUNDWATER

Work Order: 24101589
Report Date: 19-Dec-24
Client Sample ID: SG-03
Collection Date: 10/29/2024 9:49

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		9.72	ft	1	10/29/2024 9:49	R356135



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101589-094
Matrix: GROUNDWATER

Work Order: 24101589
Report Date: 19-Dec-24
Client Sample ID: XSG-01
Collection Date: 10/29/2024 14:43

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		7.56	ft	1	10/29/2024 14:43	R356135



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101589-095
Matrix: AQUEOUS

Work Order: 24101589
Report Date: 19-Dec-24

Client Sample ID: Field Blank

Collection Date: 11/07/2024 12:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		1	mg/L	1	11/11/2024 9:42	R355953
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/11/2024 9:42	R355953
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		< 20	mg/L	1	11/12/2024 14:45	R356118
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	11/08/2024 23:36	R355845
Chloride	NELAP	1.00	5.00		ND	mg/L	10	11/08/2024 23:36	R355845
Sulfate	NELAP	3.00	10.0		ND	mg/L	10	11/08/2024 23:36	R355845
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		< 0.100	mg/L	1	11/11/2024 16:21	230949
Magnesium	NELAP	0.006	0.050		< 0.050	mg/L	1	11/11/2024 16:21	230949
Potassium	NELAP	0.040	0.100		< 0.100	mg/L	1	11/13/2024 11:18	230949
Sodium	NELAP	0.018	0.050	B	< 0.050	mg/L	1	11/13/2024 11:18	230949
Contamination present in the MBLK for Na. Sample results below the reporting limit are reportable per the TNI Standard.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		< 1.0	µg/L	5	11/16/2024 9:28	230949
Arsenic	NELAP	0.4	1.0		< 1.0	µg/L	5	11/15/2024 0:50	230949
Barium	NELAP	0.7	1.0		< 1.0	µg/L	5	11/19/2024 5:23	230949
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/15/2024 0:50	230949
Boron	NELAP	9.2	20.0		< 20.0	µg/L	5	12/11/2024 12:53	232040
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/15/2024 0:50	230949
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/15/2024 0:50	230949
Cobalt	NELAP	0.1	1.0		< 1.0	µg/L	5	11/15/2024 0:50	230949
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/16/2024 9:28	230949
Lithium	*	1.4	3.0		< 3.0	µg/L	5	11/15/2024 0:50	230949
Molybdenum	NELAP	0.6	1.5		< 1.5	µg/L	5	11/16/2024 9:28	230949
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/15/2024 0:50	230949
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/15/2024 0:50	230949
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/12/2024 17:00	230944



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589

Report Date: 19-Dec-24

Lab ID: 24101589-099

Client Sample ID: G301 Duplicate

Matrix: GROUNDWATER

Collection Date: 11/07/2024 13:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		7.30	ft	1	11/07/2024 13:18	R356135
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.4	NTU	1	11/07/2024 13:18	R356135
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-2000	-2000		148	mV	1	11/07/2024 13:18	R356135
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		972	µS/cm	1	11/07/2024 13:18	R356135
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.7	°C	1	11/07/2024 13:18	R356135
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.99	mg/L	1	11/07/2024 13:18	R356135
SW-846 9040B FIELD									
pH	*	0	1.00		6.60		1	11/07/2024 13:18	R356135
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		158	mg/L	1	11/11/2024 9:37	R355953
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	11/11/2024 9:37	R355953
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		868	mg/L	1	11/12/2024 14:45	R356118
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.20	0.50		ND	mg/L	10	11/08/2024 23:59	R355845
Chloride	NELAP	1.00	5.00		10.8	mg/L	10	11/08/2024 23:59	R355845
Sulfate	NELAP	3.00	10.0		462	mg/L	10	11/08/2024 23:59	R355845
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		107	mg/L	1	11/11/2024 16:26	230949
Magnesium	NELAP	0.006	0.050		40.4	mg/L	1	11/11/2024 16:26	230949
Potassium	NELAP	0.040	0.100		1.70	mg/L	1	11/13/2024 11:19	230949
Sodium	NELAP	0.018	0.050	B	112	mg/L	1	11/11/2024 16:26	230949
<i>Sample result(s) for Na exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.</i>									
<i>Sample result(s) for Na exceed 10 times the CCB. Data is reportable per the TNI Standard.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0	J	0.5	µg/L	5	11/16/2024 9:34	230949
Arsenic	NELAP	0.4	1.0		< 1.0	µg/L	5	11/15/2024 0:56	230949
Barium	NELAP	0.7	1.0		14.2	µg/L	5	11/19/2024 5:29	230949
Beryllium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/15/2024 0:56	230949
Boron	NELAP	9.2	20.0		2110	µg/L	5	11/15/2024 0:56	230949
Cadmium	NELAP	0.2	1.0		< 1.0	µg/L	5	11/15/2024 0:56	230949
Chromium	NELAP	0.7	1.5		< 1.5	µg/L	5	11/15/2024 0:56	230949
Cobalt	NELAP	0.1	1.0		1.4	µg/L	5	11/15/2024 0:56	230949
Lead	NELAP	0.6	1.0		< 1.0	µg/L	5	11/16/2024 9:34	230949
Lithium	*	1.4	3.0		4.4	µg/L	5	11/15/2024 0:56	230949
Molybdenum	NELAP	0.6	1.5		< 1.5	µg/L	5	11/16/2024 9:34	230949
Selenium	NELAP	0.6	1.0		< 1.0	µg/L	5	11/15/2024 0:56	230949
Thallium	NELAP	1.0	2.0		< 2.0	µg/L	5	11/15/2024 0:56	230949
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		< 0.20	µg/L	1	11/12/2024 18:06	230946



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
24101589-056	G281	Groundwater	5	10/30/2024 14:25
24101589-060	G301	Groundwater	2	11/07/2024 13:18
24101589-061	G302	Groundwater	2	11/06/2024 11:58
24101589-062	G303	Groundwater	2	11/06/2024 13:48
24101589-063	G305	Groundwater	2	11/06/2024 13:20
24101589-064	G306	Groundwater	2	11/04/2024 10:19
24101589-065	G307	Groundwater	2	11/04/2024 11:19
24101589-066	G307D	Groundwater	2	11/04/2024 10:56
24101589-067	G308	Groundwater	2	11/04/2024 11:56
24101589-068	G310	Groundwater	2	11/06/2024 11:21
24101589-069	G312	Groundwater	2	11/06/2024 12:52
24101589-070	G313	Groundwater	2	11/07/2024 11:40
24101589-071	G314	Groundwater	2	11/06/2024 14:11
24101589-072	G314D	Groundwater	2	11/04/2024 13:50
24101589-073	G315	Groundwater	2	11/04/2024 13:16
24101589-074	G316	Groundwater	2	11/04/2024 12:36
24101589-089	SG-02	Groundwater	1	10/29/2024 9:56
24101589-090	SG-03	Groundwater	1	10/29/2024 9:49
24101589-094	XSG-01	Groundwater	1	10/29/2024 14:43
24101589-095	Field Blank	Aqueous	13	11/07/2024 12:55
24101589-099	G301 Duplicate	Groundwater	2	11/07/2024 13:18



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 2510 B FIELD

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-1-BG											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	10/29/2024	

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-1-JC											
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	10/29/2024	

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-1-TC											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field		*	0		1410	1412	0	99.9	90	110	11/04/2024

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-2-BG											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.4	90	110	10/30/2024	

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-2-JC											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field		*	0		1420	1412	0	100.3	90	110	10/30/2024

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-2-TC											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.0	90	110	11/06/2024	

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-3-BG											
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	10/31/2024	

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-3-JC											
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	10/31/2024	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 2510 B FIELD

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-3-TC											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	11/07/2024	

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-4-BG											
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	11/04/2024	

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-4-JC											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	99.9	90	110	11/04/2024	

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-5-BG											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1410	1412	0	100.0	90	110	11/07/2024	

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-5-JC											
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	11/06/2024	

Batch R356135		SampType: LCS		Units $\mu\text{S/cm}$							
SampID: LCS-6-JC											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	0		1420	1412	0	100.4	90	110	11/07/2024	

SW-846 9040B FIELD

Batch R356135		SampType: LCS		Units							
SampID: LCS-1-BG											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH		*	1.00		7.00	7.000	0	100.0	98.57	101.4	10/29/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 9040B FIELD

Batch R356135		SampType: LCS		Units							
SampID: LCS-1-JC											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		7.02	7.000	0	100.3	98.57	101.4	10/29/2024	

Batch R356135		SampType: LCS		Units							
SampID: LCS-1-TC											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		7.09	7.000	0	101.3	98.57	101.4	11/04/2024	

Batch R356135		SampType: LCS		Units							Date Analyzed
SampID: LCS-2-BG											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
pH		*	1.00		7.00	7.000	0	100.0	98.57	101.4	10/30/2024

Batch R356135		SampType: LCS		Units							
SampID: LCS-2-JC											
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	10/30/2024	

Batch R356135		SampType: LCS		Units							Date Analyzed
SampID: LCS-2-TC											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		7.06	7.000	0	100.9	98.57	101.4	11/06/2024	

Batch R356135		SampType: LCS		Units							Date Analyzed
SampID: LCS-3-BG											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		6.99	7.000	0	99.9	98.57	101.4	10/31/2024	

Batch R356135		SampType: LCS		Units							Date Analyzed
SampID: LCS-3-JC											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH	*	1.00		7.01	7.000	0	100.1	98.57	101.4	10/31/2024	

Batch R356135		SampType: LCS		Units							
SampID: LCS-3-TC											
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	11/07/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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SW-846 9040B FIELD

Batch R356135		SampType: LCS		Units							
SampID: LCS-4-BG											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
pH	*	1.00		7.00	7.000	0	100.0	98.57	101.4	11/04/2024	

Batch R356135		SampType: LCS		Units							
SampID: LCS-4-JC											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
pH	*	1.00		6.99	7.000	0	99.9	98.57	101.4	11/04/2024	

Batch R356135		SampType: LCS		Units							
SampID: LCS-5-BG											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
pH	*	1.00		6.99	7.000	0	99.9	98.57	101.4	11/07/2024	

Batch R356135		SampType: LCS		Units							
SampID: LCS-5-JC											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
pH	*	1.00		6.98	7.000	0	99.7	98.57	101.4	11/06/2024	

Batch R356135		SampType: LCS		Units							
SampID: LCS-6-JC											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
pH	*	1.00		7.01	7.000	0	100.1	98.57	101.4	11/07/2024	

EPA 1664A

Batch R356145		SampType: MBLK		Units mg/L								
SampID: MBLK												Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed		
Hexane Extractable Material		5		< 5	4.400	0	0	-100	100	11/13/2024		

Batch R356145		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Hexane Extractable Material		5		33	40.00	0	83.0	78	114	11/13/2024	



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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EPA 1664A

Batch R356145		SampType: MS		Units mg/L							
SampID: 24111080-002DMS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Hexane Extractable Material		7	S	21	57.36	0	36.0	78	114	11/13/2024	

EPA 600 350.1 (TOTAL)

Batch R355388		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100	10/30/2024	

Batch R355388		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	101.7	90	110	10/30/2024	

Batch R355388		SampType: MS		Units mg/L							
SampID: 24102546-001GMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.10	S	1.78	2.000	0.09100	84.3	90	110	10/30/2024

Batch R355388		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24102546-001GMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10	S	1.78	2.000	0.09100	84.2	1.777	0.11	10/30/2024

Batch R355388		SampType: MS		Units mg/L							
SampID: 24102587-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.50		13.3	10.00	4.019	92.5	90	110	10/30/2024	

Batch R355388		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24102587-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.50		13.2	10.00	4.019	91.6	13.27	0.66	10/30/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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EPA 600 350.1 (TOTAL)

Batch R355388		SampType: MS		Units mg/L							Date
SampID: 24102613-002DMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.98	2.000	0.1390	92.2	90	110	10/30/2024	

Batch R355388		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24102613-002DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		1.97	2.000	0.1390	91.5	1.984	0.76	10/30/2024

Batch R355433		SampType: MBLK		Units mg/L							Date
SampID: ICB/MBLK											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100	10/30/2024	

Batch R355433		SampType: LCS		Units mg/L							Date
SampID: ICV/LCS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.06	1.000	0	105.6	90	110	10/30/2024	

Batch R355468		SampType: MBLK		Units mg/L							Date
SampID: ICB/MBLK											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100	10/31/2024	

Batch R355468		SampType: LCS		Units mg/L							Date
SampID: ICV/LCS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.05	1.000	0	104.9	90	110	10/31/2024	

Batch R355468		SampType: MS		Units mg/L							Date
SampID: 24102625-001BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.82	2.000	0	91.0	90	110	10/31/2024	

Batch R355468		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24102625-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		1.84	2.000	0	92.2	1.820	1.26	10/31/2024



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Work Order: 24101589

Client Project: COF-24Q4

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EPA 600 350.1 (TOTAL)

Batch	R355468	SampType:	MS	Units	mg/L							Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Ammonia (as N)			0.10		1.92	2.000	0.05400	93.2	90	110		10/31/2024

Batch	R355468	SampType:	MSD	Units	mg/L							Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Nitrogen, Ammonia (as N)			0.10		1.98	2.000	0.05400	96.2	1.918	3.08		10/31/2024

Batch	R355628	SampType:	MBLK	Units	mg/L							Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Ammonia (as N)			0.10		< 0.10	0.0270	0	0	-100	100		11/04/2024

Batch	R355628	SampType:	LCS	Units	mg/L							Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Ammonia (as N)			0.10		1.04	1.000	0	103.5	90	110		11/04/2024

Batch	R355628	SampType:	MS	Units	mg/L							Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Ammonia (as N)			0.10		3.44	2.000	1.576	93.1	90	110		11/04/2024

Batch	R355628	SampType:	MSD	Units	mg/L							Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Nitrogen, Ammonia (as N)			0.10		3.43	2.000	1.576	92.6	3.438	0.29		11/04/2024

Batch	R355628	SampType:	MS	Units	mg/L							Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Ammonia (as N)			0.20	S	6.92	4.000	3.340	89.4	90	110		11/04/2024

Batch	R355628	SampType:	MSD	Units	mg/L							Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Nitrogen, Ammonia (as N)			0.20	S	6.93	4.000	3.340	89.8	6.915	0.23		11/04/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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EPA 600 350.1 (TOTAL)

Batch R355628		SampType: MS		Units mg/L						
SampID: 24110053-004AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10	S	1.77	2.000	0	88.4	90	110	11/04/2024

Batch R355628		SampType: MSD		Units mg/L								RPD Limit 10	Date
SampID: 24110053-004AMSD												Analyzed	
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD				
Nitrogen, Ammonia (as N)		0.10		1.81	2.000	0	90.4	1.768	2.29				11/04/2024

Batch R355628		SampType: MS		Units mg/L							
SampID: 24110191-001EMS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.80	2.000	0	90.0	90	110	11/04/2024	

Batch R355628		SampType: MSD		Units mg/L								RPD Limit 10	Date
SampID: 24110191-001EMSD												Analyzed	
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD				
Nitrogen, Ammonia (as N)		0.10	S	1.78	2.000	0	89.0	1.800	1.17				11/04/2024

Batch R355747		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100	11/06/2024	

Batch R355747		SampType: LCS		Units mg/L							
SampID: ICB/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.07	1.000	0	106.9	90	110	11/06/2024	

Batch R355747		SampType: MS		Units mg/L							
SampID: 24102775-002BMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.20		4.28	4.000	0.5150	94.2	90	110	11/06/2024

Batch R355747		SampType: MSD		Units mg/L								RPD Limit 10	Date
SampID: 24102775-002BMSD												Analyzed	
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD				
Nitrogen, Ammonia (as N)		0.20		4.29	4.000	0.5150	94.3	4.284	0.05				11/06/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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EPA 600 350.1 (TOTAL)

Batch R355747		SampType: MS		Units mg/L							Date
SampID: 24102802-003HMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.20		4.61	4.000	0.8620	93.7	90	110	11/06/2024	

Batch R355747		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24102802-003HMSD											Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed
Nitrogen, Ammonia (as N)			0.20		4.60	4.000	0.8620	93.5	4.608	0.13	11/06/2024

Batch R355747		SampType: MS		Units mg/L							Date
SampID: 24110049-013CMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.20	S	3.80	4.000	0.2170	89.4	90	110	11/06/2024	

Batch R355747		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24110049-013CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Nitrogen, Ammonia (as N)			0.20	S	3.81	4.000	0.2170	89.7	3.795	0.29	11/06/2024

Batch R355747		SampType: MS		Units mg/L							Date
SampID: 24110138-001BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		1.00		23.1	20.00	4.214	94.3	90	110	11/06/2024	

Batch R355747		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110138-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			1.00		23.0	20.00	4.214	94.1	23.08	0.20	11/06/2024

Batch R355747		SampType: MS		Units mg/L							Date
SampID: 24110232-001HMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.87	2.000	0.03900	91.4	90	110	11/06/2024	

Batch R355747		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110232-001HMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		1.90	2.000	0.03900	93.0	1.868	1.59	11/06/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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EPA 600 350.1 (TOTAL)

Batch R355747		SampType: MS		Units mg/L							Date
SampID: 24110234-001GMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.86	2.000	0.03200	91.2	90	110	11/06/2024	

Batch R355747		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110234-001GMSD											
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	0.03200	92.4	1.857	1.28	11/06/2024

Batch R355747		SampType: MS		Units mg/L							Date
SampID: 24110342-003HMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.87	2.000	0.04000	91.4	90	110	11/06/2024	

Batch R355747		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110342-003HMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		1.86	2.000	0.04000	91.0	1.867	0.43	11/06/2024

Batch R355897		SampType: MBLK		Units mg/L							Date
SampID: ICB/MBLK											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100	11/08/2024	

Batch R355897		SampType: LCS		Units mg/L							Date
SampID: ICV/LCS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.08	1.000	0	108.3	90	110	11/08/2024	

Batch R355897		SampType: MS		Units mg/L							Date
SampID: 24110124-001BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		50.0		1160	1000	200.3	95.7	90	110	11/08/2024	

Batch R355897		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110124-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			50.0		1150	1000	200.3	94.9	1158	0.67	11/08/2024



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Batch R355897		SampType: MS		Units mg/L								Date
SampID: 24110458-001HMS												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Nitrogen, Ammonia (as N)		0.10		1.96	2.000	0.04600	95.7	90	110			

Batch R355897		SampType: MSD		Units mg/L								RPD Limit 10	Date
SampID: 24110458-001HMSD													Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD				
Nitrogen, Ammonia (as N)		0.10		1.92	2.000	0.04600	93.8	1.960	1.96				11/08/2024

Batch R355897		SampType: MS		Units mg/L								Date
SampID: 24110499-001AMS												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Nitrogen, Ammonia (as N)		0.10		2.22	2.000	0.2990	95.8	90	110			

Batch R355897		SampType: MSD		Units mg/L								RPD Limit 10	Date
SampID: 24110499-001AMSD													Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD				
Nitrogen, Ammonia (as N)		0.10		2.12	2.000	0.2990	91.0	2.215	4.38				11/08/2024

Batch R355897		SampType: MS		Units mg/L								Date
SampID: 24110515-002GMS												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Nitrogen, Ammonia (as N)		0.10		1.97	2.000	0.07700	94.8	90	110			

Batch R355897		SampType: MSD		Units mg/L								RPD Limit 10	Date
SampID: 24110515-002GMSD													Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD				
Nitrogen, Ammonia (as N)		0.10		1.90	2.000	0.07700	91.4	1.972	3.51				11/08/2024

Batch R355897		SampType: MS		Units mg/L								Date
SampID: 24110533-007BMS												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Nitrogen, Ammonia (as N)		0.10		1.92	2.000	0	95.8	90	110			

Batch R355897		SampType: MSD		Units mg/L								RPD Limit 10	Date
SampID: 24110533-007BMSD													Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD				
Nitrogen, Ammonia (as N)		0.10		1.94	2.000	0	97.0	1.915	1.35				11/08/2024



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Work Order: 24101589

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Batch R355897		SampType: MS		Units mg/L							Date
SampID: 24110564-002BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		3.22	2.000	1.244	98.7	90	110	11/08/2024	

Batch R355897		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110564-002BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		3.20	2.000	1.244	97.8	3.218	0.56	11/08/2024

Batch R355897		SampType: MS		Units mg/L							Date
SampID: 24110570-001BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		2.58	2.000	0.6670	95.8	90	110	11/08/2024	

Batch R355897		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110570-001BMSD											
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	0.6670	95.9	2.582	0.12	11/08/2024

Batch R355897		SampType: MS		Units mg/L							Date
SampID: 24110673-004DMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		1.89	2.000	0.04000	92.3	90	110	11/08/2024	

Batch R355897		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110673-004DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		1.94	2.000	0.04000	94.9	1.886	2.72	11/08/2024

Batch R355897		SampType: MS		Units mg/L							Date
SampID: 24110704-002DMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.10		2.91	2.000	1.020	94.4	90	110	11/08/2024	

Batch R355897		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110704-002DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		2.91	2.000	1.020	94.4	2.908	0.00	11/08/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

EPA 600 350.1 (TOTAL)

Batch R355983		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Nitrogen, Ammonia (as N)		0.10		< 0.10	0.0270	0	0	-100	100	11/07/2024	

Batch R355983		SampType: MBLK		Units mg/L							
SampID: MBLK											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Nitrogen, Ammonia (as N)			0.10		< 0.10	0.0270	0	0	-100	100	11/07/2024

Batch R355983		SampType: LCS		Units mg/L							
SampID: ICB/LCS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		0.98	1.000	0	98.0	90	110	11/07/2024

Batch R355990		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	11/11/2024

Batch R355990		SampType: LCS		Units mg/L							
SampID: ICV/LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Nitrogen, Ammonia (as N)		0.10		0.98	1.000	0	98.1	90	110	11/11/2024	

Batch R355990		SampType: MS		Units mg/L							
SampID: 24110766-001DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		2.19	2.000	0.2462	97.0	90	110	11/11/2024	

Batch R355990		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110766-001DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		2.16	2.000	0.2462	95.9	2.186	1.03	11/11/2024

Batch R355990		SampType: MS		Units mg/L							
SampID: 24110767-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10	S	1.83	2.000	0.05150	89.0	90	110	11/11/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

EPA 600 350.1 (TOTAL)

Batch R355990		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110767-002BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10	S	1.84	2.000	0.05150	89.4	1.831	0.47	11/11/2024

Batch R355990		SampType: MS		Units mg/L							
SampID: 24110880-006AMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.20		3.71	4.000	0.06410	91.1	90	110	11/11/2024

Batch	R355990	SampType:	MSD	Units mg/L					RPD Limit 10		
SampID: 24110880-006AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.20		3.75	4.000	0.06410	92.0	3.708	1.00	11/11/2024

Batch R355990		SampType: MS		Units mg/L							
SampID: 24110893-001EMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		1.89	2.000	0	94.5	90	110	11/11/2024

Batch	R355990	SampType:	MSD	Units					mg/L	RPD Limit			10
SampID: 24110893-001EMSD													
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Ammonia (as N)			0.10		1.89	2.000	0	94.6	1.891	0.07	11/11/2024		

Batch R356170		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	11/13/2024

Batch R356170		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	98.1	90	110	11/13/2024

Batch R356170		SampType: MS		Units mg/L							
SampID: 24111039-002CMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.10	S	1.76	2.000	0.09950	83.0	90	110	11/13/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

EPA 600 350.1 (TOTAL)

Batch R356170		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24111039-002CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Nitrogen, Ammonia (as N)			0.10	S	1.76	2.000	0.09950	82.9	1.760	0.11	11/13/2024

Batch R356170		SampType: MS		Units mg/L							
SampID: 24111056-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		1.00		22.5	20.00	4.027	92.2	90	110	11/13/2024	

Batch R356170		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed	
SampID: 24111056-002AMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Ammonia (as N)			1.00		22.6	20.00	4.027	93.0	22.47	0.66	11/13/2024	

Batch R357003		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	12/02/2024

Batch R357003		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		1.10	1.000	0	109.7	90	110	12/02/2024	

Batch R357003		SampType: MS		Units mg/L							
SampID: 24111395-008DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		1.00		35.6	20.00	16.98	93.1	90	110	12/02/2024	

Batch R357003		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24111395-008DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			1.00		35.6	20.00	16.98	92.9	35.60	0.11	12/02/2024

Batch R357003		SampType: MS		Units mg/L							
SampID: 24111493-009HMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		50.0		1590	1000	693.7	90.1	90	110	12/03/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

EPA 600 350.1 (TOTAL)

Batch R357003		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24111493-009HMSD											Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed
Nitrogen, Ammonia (as N)			50.0	S	1580	1000	693.7	88.8	1595	0.83	12/03/2024

Batch R357003		SampType: MS		Units mg/L							
SampID: 24111939-003HMS											Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Nitrogen, Ammonia (as N)			0.20		3.96	4.000	0.2052	93.8	90	110	12/02/2024

Batch R357003		SampType:	MSD		Units mg/L				RPD Limit 10			
SampID: 24111939-003HMSD												
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)				0.20		3.99	4.000	0.2052	94.7	3.957	0.94	12/02/2024

Batch R357003		SampType: MS		Units mg/L							
SampID: 24111941-003HMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.20		5.25	4.000	1.582	91.8	90	110	12/02/2024

Batch R357003		SampType:	MSD		Units mg/L				RPD Limit 10			
SampID: 24111941-003HMSD												
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)				0.20		5.35	4.000	1.582	94.3	5.254	1.87	12/02/2024

Batch R357003		SampType: MS		Units mg/L							
SampID: 24112014-003AMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.20		3.93	4.000	0.2235	92.6	90	110	12/02/2024

Batch R357003		SampType: MSD	Units mg/L					RPD Limit 10			
SampID: 24112014-003AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.20		3.92	4.000	0.2235	92.4	3.926	0.18	12/02/2024

Batch R357003		SampType: MS		Units mg/L							
SampID: 24112195-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.97	2.000	0.1298	92.0	90	110	12/02/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

EPA 600 350.1 (TOTAL)

Batch R357003		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed	
SampID: 24112195-006AMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Ammonia (as N)			0.10		1.97	2.000	0.1298	92.0	1.970	0.04	12/02/2024	

Batch R357003		SampType: MS		Units mg/L							
SampID: 24112379-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.84	2.000	0.03300	90.5	90	110	12/03/2024	

Batch R357003		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24112379-002CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		1.84	2.000	0.03300	90.6	1.844	0.06	12/03/2024

Batch R357003		SampType: MS		Units mg/L							
SampID: 24120014-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.50		22.5	10.00	13.07	94.0	90	110	12/03/2024	

Batch R357003		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24120014-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.50		23.2	10.00	13.07	100.9	22.47	3.06	12/03/2024

Batch R357003		SampType: MS		Units mg/L							
SampID: 24120076-001EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10		1.85	2.000	0	92.7	90	110	12/03/2024	

Batch R357003		SampType: MSD		Units mg/L		RPD Limit 10					
SampID: 24120076-001EMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		1.82	2.000	0	91.1	1.854	1.75	12/03/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

EPA 600 365.4 (TOTAL)

Batch 230974		SampType: MBLK		Units mg/L							
SampID: MBLK 241108 TP1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Total (as P)		0.100		< 0.100	0.0660	0	0	-100	100	11/11/2024	

Batch 230974		SampType: LCS		Units mg/L						
SampID: LCS 241108 TP1										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Total (as P)		0.100		0.932	1.000	0	93.2	85	115	11/11/2024

Batch 230974		SampType: MS		Units mg/L							
SampID: 24110507-001DMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Phosphorus, Total (as P)		0.100		3.17	1.000	2.223	94.9	85	115	11/11/2024	

Batch 230974		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110507-001DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Phosphorus, Total (as P)		0.100		3.11	1.000	2.223	89.1	3.172	1.85	11/11/2024	

Batch 230974		SampType: MS		Units mg/L							
SampID: 24110510-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phosphorus, Total (as P)		0.100		1.17	1.000	0.2150	95.7	85	115	11/11/2024	

Batch 230974		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110510-002BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Total (as P)			0.100		1.21	1.000	0.2150	99.3	1.172	3.03	11/11/2024

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R355707		SampType: MBLK		Units mg/L							
SampID: MBLK											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Total Dissolved Solids			20		< 20	16.00	0	0	-100	100	11/04/2024
Total Dissolved Solids			20		< 20	16.00	0	0	-100	100	11/04/2024
Total Dissolved Solids			20		< 20	16.00	0	0	-100	100	11/04/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R355707 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		954	1000	0	95.4	90	110	11/04/2024
Total Dissolved Solids		20		958	1000	0	95.8	90	110	11/04/2024
Total Dissolved Solids		20		930	1000	0	93.0	90	110	11/04/2024

Batch R355707 SampType: DUP Units mg/L
SampID: 24101589-007ADUP

RPD Limit 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		468				470.0	0.43	11/04/2024

Batch R355707 SampType: DUP Units mg/L
SampID: 24101589-025ADUP

RPD Limit 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		424				424.0	0.00	11/04/2024

Batch R355707 SampType: DUP Units mg/L
SampID: 24102707-006ADUP

RPD Limit 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		100		670				660.0	1.50	11/04/2024

Batch R355835 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	11/06/2024
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/06/2024

Batch R355835 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	11/06/2024
Total Dissolved Solids		20		936	1000	0	93.6	90	110	11/06/2024

Batch R355835 SampType: DUP Units mg/L
SampID: 24101589-004ADUP

RPD Limit 10

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		520				534.0	2.66	11/06/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R355835		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24101589-045ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20		636				658.0	3.40	11/06/2024

Batch R355895		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	11/07/2024
Total Dissolved Solids			20		< 20	16.00	0	0	-100	100	11/07/2024

Batch R355895		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		984	1000	0	98.4	90	110	11/07/2024
Total Dissolved Solids		20		1010	1000	0	100.6	90	110	11/07/2024

Batch R355895		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24101589-081ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20		1830				1828	0.11	11/07/2024

Batch R355895		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24102207-021ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20		1150				1210	5.08	11/07/2024

Batch R356046		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	11/11/2024	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/11/2024	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/11/2024	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch **R356046** 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		978	1000	0	97.8	90	110	11/11/2024
Total Dissolved Solids		20		1010	1000	0	101.2	90	110	11/11/2024
Total Dissolved Solids		20		990	1000	0	99.0	90	110	11/11/2024

Batch **R356046** SampType: **DUP** Units **mg/L** RPD Limit **10**
SampID: 24101589-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		1820				1836	0.99	11/11/2024

Batch **R356046** SampType: **DUP** Units **mg/L** RPD Limit **10**
SampID: 24110522-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		200		5800				6140	5.70	11/11/2024

Batch **R356046** SampType: **DUP** Units **mg/L** RPD Limit **10**
SampID: 24110735-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		1000				978.0	2.62	11/11/2024

Batch **R356046** SampType: **DUP** Units **mg/L** RPD Limit **10**
SampID: 24110736-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		200		28100				27380	2.60	11/11/2024

Batch **R356118** 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	11/12/2024
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/12/2024

Batch **R356118** 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		948	1000	0	94.8	90	110	11/12/2024
Total Dissolved Solids		20		984	1000	0	98.4	90	110	11/12/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R356185		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24110581-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20	H	312				328.0	5.00	11/13/2024	

Batch R357166		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	12/04/2024
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	12/04/2024
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	12/04/2024

Batch R357166		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		904	1000	0	90.4	90	110	12/04/2024
Total Dissolved Solids		20		984	1000	0	98.4	90	110	12/04/2024
Total Dissolved Solids		20		950	1000	0	95.0	90	110	12/04/2024

Batch R357166		SampType: DUP		Units mg/L				RPD Limit 10				Date Analyzed
SampID: 24101589-010ADUP												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Total Dissolved Solids			20	H	388				408.0	5.03		
12/04/2024												

Batch R357166		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24101589-011ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20	H	574				540.0	6.10	12/04/2024

Batch R357166		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24101589-012ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20	H	504				544.0	7.63	12/04/2024

Batch R357166		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24112335-002ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20	H	406				380.0	6.62	12/04/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R357166		SampType: DUP		Units mg/L				RPD Limit 10			
SampID: 24112335-020ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids			20	H	396				382.0	3.60	12/04/2024

STANDARD METHODS 2540 D 1997, 2011

Batch	R356019	SampType:	MBLK	Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Suspended Solids		6		< 6	4.000	0	0	-100	100	11/12/2024	
Total Suspended Solids		6		< 6	4.000	0	0	-100	100	11/12/2024	
Total Suspended Solids		6		< 6	4.000	0	0	-100	100	11/12/2024	
Total Suspended Solids		6		< 6	4.000	0	0	-100	100	11/12/2024	
Total Suspended Solids	*	0.5		< 0.5	0.3000	0	0	-100	100	11/12/2024	

Batch	R356019	SampType:	LCS	Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Suspended Solids		6		99	100.0	0	99.0	85	115	11/12/2024	
Total Suspended Solids		6		95	100.0	0	95.0	85	115	11/12/2024	
Total Suspended Solids		6		96	100.0	0	96.0	85	115	11/12/2024	
Total Suspended Solids		6		112	100.0	0	112.0	85	115	11/12/2024	
Total Suspended Solids		6		102	100.0	0	102.0	85	115	11/12/2024	

Batch R356019		SampType: DUP		Units mg/L					RPD Limit 5		
SampID: 24110590-001ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids			6		< 6				0	0.00	11/12/2024

Batch R356019		SampType:	DUP		Units mg/L				RPD Limit 5			
SampID: 24110627-001ADUP												
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids				6		48				48.00	0.00	11/12/2024

Batch R356019		SampType: DUP		Units mg/L				RPD Limit 5			
SampID: 24110685-001ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids			6		27				28.00	3.64	11/12/2024



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Client: Ramboll

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Client Project: COF-24Q4

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STANDARD METHODS 2540 D 1997, 2011

Batch	R356019	SampType:	DUP	Units	mg/L	RPD Limit 5						
SampleID: 24110698-002BDUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Suspended Solids		6		20				21.00	4.88	11/12/2024		

Batch R356019		SampType: DUP		Units mg/L				RPD Limit 5			
SampleID: 24110772-001ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids			6	R	8				10.00	22.22	11/12/2024

Batch R356019		SampType: DUP		Units mg/L				RPD Limit 5			
SampleID: 24110783-001ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids			6		53				54.00	1.87	11/12/2024

Batch R356019		SampType:	DUP		Units mg/L					RPD Limit 5		
SampleID: 24110893-001ADUP												
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids				6		< 6				0	0.00	11/12/2024

Batch R356019		SampType:	DUP		Units mg/L				RPD Limit 5		
SampleID: 24110894-001ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids		*	0.9		4.0				4.000	0.62	11/12/2024

Batch R356019		SampType:	DUP		Units mg/L				RPD Limit 5		
SampleID: 24110902-001ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Suspended Solids			12		100				100.0	0.00	11/12/2024

STANDARD METHODS 4500-NH3 G (DISSOLVED) 1997, 2011

Batch R355388		SampType: MS	Units mg/L								
SampleID: 24101589-091EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10	S	1.77	2.000	0	88.6	90	110	10/30/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NH3 G (DISSOLVED) 1997, 2011

Batch R355388		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24101589-091EMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10	S	1.78	2.000	0	89.1	1.771	0.62	10/30/2024

Batch R355468		SampType: MS		Units mg/L							
SampID: 24101589-006GMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		1.83	2.000	0	91.4	90	110	10/31/2024

Batch R355468		SampType: MSD		Units mg/L					RPD Limit 10		
SampID: 24101589-006GMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		1.82	2.000	0	91.0	1.829	0.44	10/31/2024

Batch R355628		SampType: MS		Units mg/L							
SampID: 24101589-004EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10	S	1.75	2.000	0	87.4	90	110	11/04/2024	

Batch R355628		SampType:	MSD		Units mg/L				RPD Limit 10			
SampID: 24101589-004EMSD												
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)				0.10	S	1.76	2.000	0	87.8	1.748	0.46	11/04/2024

Batch R355897		SampType: MS		Units mg/L							
SampID: 24102205-009GMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		2.73	2.000	0.8680	93.3	90	110	11/08/2024

Batch R355897		SampType: MSD		Units mg/L					RPD Limit 10		
SampID: 24102205-009GMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		2.74	2.000	0.8680	93.7	2.734	0.29	11/08/2024

Batch R355897		SampType: MS		Units mg/L							
SampID: 24102207-021GMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		2.73	2.000	0.8650	93.2	90	110	11/08/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NH3 G (DISSOLVED) 1997, 2011

Batch R355897		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24102207-021GMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		2.73	2.000	0.8650	93.4	2.728	0.22	11/08/2024

Batch R355897		SampType: MS		Units mg/L							
SampID: 24110554-003EMS											
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	91.0	90	110	11/08/2024

Batch R355897		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110554-003EMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		1.84	2.000	0	91.8	1.821	0.87	11/08/2024

Batch R355897		SampType: MS		Units mg/L							
SampID: 24110554-007EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.10	S	1.77	2.000	0	88.6	90	110	11/08/2024	

Batch	R355897	SampType:	MSD	Units					mg/L	RPD Limit			10
SampID: 24110554-007EMSD													Date Analyzed
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Ammonia (as N)				0.10	S	1.80	2.000	0	89.9	1.771	1.51	11/08/2024	

Batch R355990		SampType: MS		Units mg/L							
SampID: 24102207-005GMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		2.12	2.000	0.3041	90.8	90	110	11/11/2024

Batch R355990		SampType: MSD	Units mg/L					RPD Limit 10			
SampID: 24102207-005GMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		2.12	2.000	0.3041	90.9	2.120	0.10	11/11/2024

Batch R356170		SampType: MS		Units mg/L							
SampID: 24102206-001GMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		2.52	2.000	0.6999	91.0	90	110	11/13/2024



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Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

STANDARD METHODS 4500-NH3 G (DISSOLVED) 1997, 2011

Batch R356170		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24102206-001GMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.10		2.53	2.000	0.6999	91.6	2.520	0.49	11/13/2024

Batch R356170		SampType: MS		Units mg/L							
SampID: 24102207-018GMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.20		3.99	4.000	0.2819	92.6	90	110	11/13/2024	

Batch R356170		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed	
SampID: 24102207-018GMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Ammonia (as N)			0.20		3.97	4.000	0.2819	92.3	3.987	0.36		

Batch R356170		SampType: MS		Units mg/L							
SampID: 24110708-005GMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Ammonia (as N)		0.20		4.05	4.000	0.3991	91.3	90	110	11/13/2024	

Batch R356170		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110708-005GMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)			0.20		4.03	4.000	0.3991	90.7	4.052	0.61	11/13/2024

Batch R356170		SampType: MS		Units mg/L							
SampID: 24110810-002GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Ammonia (as N)		0.20		3.80	4.000	0.2010	90.0	90	110	11/13/2024	

Batch R356170		SampType: MSD		Units mg/L		RPD Limit 10					Date Analyzed	
SampID: 24110810-002GMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Ammonia (as N)			0.20		3.81	4.000	0.2010	90.2	3.799	0.30		



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R355315		SampType: MS		Units mg/L							Date
SampID: 24101589-010BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.2	85	115	10/29/2024	

Batch R355315		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24101589-010BMSD											
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	100.2	0.5010	0.00	10/29/2024

Batch R355315		SampType: MS		Units mg/L							Date
SampID: 24101589-092BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.6	85	115	10/29/2024	

Batch R355315		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24101589-092BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Nitrogen, Nitrite (as N)			0.05		0.50	0.5000	0	99.2	0.4980	0.40	10/29/2024

Batch R355404		SampType: MS		Units mg/L							Date
SampID: 24101589-024BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0	96.2	85	115	10/30/2024	

Batch R355404		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24101589-024BMSD											
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	95.6	0.4810	0.63	10/30/2024

Batch R355548		SampType: MS		Units mg/L							Date
SampID: 24110043-001AMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	102.0	85	115	11/01/2024	

Batch R355548		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110043-001AMSD											
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	102.0	0.5100	0.00	11/01/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R355692		SampType: MS		Units mg/L							Date
SampID: 24101589-018BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0	95.2	85	115	11/05/2024	

Batch R355692		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 24101589-018BMSD											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0	95.2	0.4760	0.00	11/05/2024	

Batch R355821		SampType: MS		Units mg/L							Date
SampID: 24101589-020BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0.005000	94.6	85	115	11/07/2024	

Batch R355821		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 24101589-020BMSD											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0.005000	94.2	0.4780	0.42	11/07/2024	

Batch R355821		SampType: MS		Units mg/L							Date
SampID: 24102207-011BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.46	0.5000	0	92.0	85	115	11/07/2024	

Batch R355821		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 24102207-011BMSD											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)		0.05		0.46	0.5000	0	92.6	0.4600	0.65	11/07/2024	

Batch R355821		SampType: MS		Units mg/L							Date
SampID: 24110556-001BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	97.6	85	115	11/07/2024	

Batch R355821		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 24110556-001BMSD											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	97.2	0.4880	0.41	11/07/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

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Batch R355889		SampType: MS		Units mg/L							
SampID: 24101589-095DMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.8	85	115	11/08/2024	

Batch R355889		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24101589-095DMSD											
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	101.4	0.5040	0.59	11/08/2024

Batch R355889		SampType: MS		Units mg/L							
SampID: 24102207-003BMS											
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	100.0	85	115	11/08/2024

Batch R355889		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed	
SampID: 24102207-003BMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)			0.05		0.50	0.5000	0	100.4	0.5000	0.40		

Batch R355889		SampType: MS		Units mg/L							
SampID: 24110708-005BMS											
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	99.4	85	115	11/08/2024	

Batch R355889		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110708-005BMSD											
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	98.6	0.4970	0.81	11/08/2024

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R355315		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	10/29/2024
Nitrogen, Nitrite (as N)			0.05		< 0.05	0.0250	0	0	-100	100	10/29/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R355315		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)		0.05		0.29	0.3045	0	96.6	90	110	10/29/2024	
Nitrogen, Nitrite (as N)		0.05		0.29	0.3045	0	96.6	90	110	10/29/2024	

Batch R355315		SampType: MS		Units mg/L							
SampID: 24102525-001AMS											
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	10/29/2024	

Batch R355315		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24102525-001AMSD											
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	102.6	0.5130	0.00	10/29/2024

Batch R355404		SampType: MBLK		Units mg/L							
SampID: MBLK											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	10/30/2024	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	10/30/2024	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	10/30/2024	

Batch R355404		SampType: LCS		Units mg/L							
SampID: LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.28	0.3045	0	92.0	90	110	10/30/2024	
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	96.9	90	110	10/30/2024	
Nitrogen, Nitrite (as N)		0.05		0.29	0.3045	0	95.9	90	110	10/30/2024	

Batch R355404		SampType: MS		Units mg/L							
SampID: 24102647-001AMS											
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	0.007000	92.8	85	115	10/30/2024	

Batch R355404		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24102647-001AMSD											
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	0.007000	93.0	0.4710	0.21	10/30/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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Batch R355404 SampType: MS Units mg/L

SampID: 24102650-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05	S	0.39	0.5000	0	77.2	85	115	10/30/2024

Batch R355404 SampType: MSD Units mg/L

RPD Limit 10

SampID: 24102650-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05	SR	0.26	0.5000	0	51.8	0.3860	39.38	10/30/2024

Batch R355548 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	11/01/2024
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	11/01/2024

Batch R355548 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)		0.05		0.29	0.3045	0	96.6	90	110	11/01/2024
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	96.9	90	110	11/01/2024

Batch R355548 SampType: MS Units mg/L

SampID: 24110033-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0	104.6	85	115	11/01/2024

Batch R355548 SampType: MSD Units mg/L

RPD Limit 10

SampID: 24110033-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0	103.6	0.5230	0.96	11/01/2024

Batch R355692 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	11/05/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R355692		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)		0.05		0.30	0.3045	0	99.2	90	110	11/05/2024

Batch R355692		SampType: MS		Units mg/L						
SampID: 24110292-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.43	0.5000	0	86.8	85	115	11/05/2024

Batch R355692		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110292-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)			0.05		0.46	0.5000	0	91.2	0.4340	4.94	11/05/2024

Batch R355821		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	11/07/2024
Nitrogen, Nitrite (as N)			0.05		< 0.05	0.0250	0	0	-100	100	11/07/2024

Batch R355821		SampType: LCS		Units mg/L							
SampID: LCS											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Nitrogen, Nitrite (as N)			0.05		0.28	0.3045	0	92.9	90	110	11/07/2024
Nitrogen, Nitrite (as N)			0.05		0.28	0.3045	0	92.6	90	110	11/07/2024

Batch R355821		SampType: MS		Units mg/L							
SampID: 24110557-003BMS											
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	93.6	85	115	11/07/2024	

Batch R355821		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110557-003BMSD											
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	0.4680	0.85	11/07/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R355821 SampType: MS Units mg/L

SampID: 24110557-005BMS

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	93.8	85	115	11/07/2024

Batch R355821 SampType: MSD Units mg/L

RPD Limit 10

SampID: 24110557-005BMSD

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	0.4690	0.64	11/07/2024

Batch R355821 SampType: MS Units mg/L

SampID: 24110578-001AMS

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	0.02200	95.6	85	115	11/07/2024

Batch R355821 SampType: MSD Units mg/L

RPD Limit 10

SampID: 24110578-001AMSD

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	0.02200	95.0	0.5000	0.60	11/07/2024

Batch R355889 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	11/08/2024
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	11/08/2024

Batch R355889 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)		0.05		0.31	0.3045	0	100.5	90	110	11/08/2024
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	98.5	90	110	11/08/2024

Batch R355889 SampType: MS Units mg/L

SampID: 24110816-002BMS

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	102.2	85	115	11/08/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R355889		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110816-002BMSD											
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	100.8	0.5110	1.38	11/08/2024	

Batch R355889		SampType: MS		Units mg/L							
SampID: 24110817-003BMS											
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	98.6	85	115	11/08/2024	

Batch R355889		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110817-003BMSD											
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	0.4930	0.40	11/08/2024

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R355401		SampType: MS		Units mg/L							
SampID: 24101589-013BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.928	0.2500	0.6750	101.2	85	115	10/29/2024	

Batch R355401		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24101589-013BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.932	0.2500	0.6750	102.8	0.9280	0.43	10/29/2024

Batch R355401		SampType: MS		Units mg/L							
SampID: 24101589-092BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.221	0.2500	0	88.4	85	115	10/29/2024	

Batch R355401		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24101589-092BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.227	0.2500	0	90.8	0.2210	2.68	10/29/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R355477		SampType: MS		Units mg/L							
SampID: 24101589-009BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050	S	0.546	0.2500	0.07500	188.4	85	115	10/30/2024	

Batch R355477		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24101589-009BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050	S	0.556	0.2500	0.07500	192.4	0.5460	1.81	10/30/2024

Batch R355553		SampType: MS		Units mg/L							
SampID: 24101589-022BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.100		1.24	0.5000	0.7490	97.2	85	115	10/31/2024	

Batch R355553		SampType: MSD		Units mg/L				RPD Limit 10				Date Analyzed
SampID: 24101589-022BMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrate-Nitrite (as N)			0.100		1.22	0.5000	0.7490	93.8	1.235	1.39		

Batch R355882		SampType: MS		Units mg/L							
SampID: 24110556-001BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.247	0.2500	0	98.8	85	115	11/07/2024	

Batch R355882		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110556-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050	SR	0.358	0.2500	0	143.2	0.2470	36.69	11/07/2024

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R355401		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						10/29/2024
Nitrogen, Nitrate-Nitrite (as N)			0.050		< 0.050	0.0090	0	0	-100	100	10/29/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R355401		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		0.533	0.5000	0	106.6	90	110	10/29/2024	

Batch R355401		SampType: MS		Units mg/L							
SampID: 24102453-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.500		4.70	2.500	2.185	100.6	90	110	10/29/2024	

Batch R355401		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24102453-007BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.500		4.75	2.500	2.185	102.6	4.700	1.08	10/29/2024

Batch R355401		SampType: MS		Units mg/L							
SampID: 24102613-002DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00		14.4	5.000	9.377	101.2	90	110	10/29/2024	

Batch R355401		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24102613-002DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			1.00		14.4	5.000	9.377	100.3	14.44	0.31	10/29/2024

Batch R355477		SampType: MBLK		Units mg/L								
SampID: ICB/MBLK											Date Analyzed	
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate (as N)				0.050		< 0.050						10/30/2024
Nitrogen, Nitrate-Nitrite (as N)				0.050		< 0.050	0.0090	0	0	-100	100	10/30/2024

Batch R355477		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		0.533	0.5000	0	106.6	90	110	10/30/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R355477 SampType: MS Units mg/L

SampID: 24102647-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		5.00		55.6	25.00	32.86	90.8	90	110	10/30/2024

Batch R355477 SampType: MSD Units mg/L

RPD Limit 10

SampID: 24102647-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		5.00		56.2	25.00	32.86	93.2	55.55	1.10	10/30/2024

Batch R355477 SampType: MS Units mg/L

SampID: 24102657-006AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.500		7.75	2.500	5.334	96.6	90	110	10/30/2024

Batch R355477 SampType: MSD Units mg/L

RPD Limit 10

SampID: 24102657-006AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.500		7.74	2.500	5.334	96.0	7.750	0.19	10/30/2024

Batch R355553 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						10/31/2024
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	10/31/2024

Batch R355553 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		0.478	0.5000	0	95.6	90	110	10/31/2024

Batch R355553 SampType: MS Units mg/L

SampID: 24102760-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050	S	0.310	0.2500	0.08800	88.8	90	110	10/31/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R355553		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24102760-001CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.321	0.2500	0.08800	93.2	0.3100	3.49	10/31/2024

Batch	R355573	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						11/01/2024		
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	11/01/2024		

Batch R355573		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		0.497	0.5000	0	99.4	90	110	11/01/2024

Batch R355573		SampType: MS		Units mg/L							
SampID: 24110012-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		2.50	H	28.8	12.50	16.41	98.9	90	110	11/01/2024	

Batch R355573		SampType:	MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24110012-002AMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrate-Nitrite (as N)			2.50	H	29.1	12.50	16.41	101.9	28.77	1.29	11/01/2024	

Batch	R355763	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						11/05/2024		
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	11/05/2024		

Batch R355763		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	11/05/2024	



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R355763		SampType: MS		Units mg/L							Date
SampID: 24110124-001BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		50.0		836	250.0	580.5	102.4	90	110	11/05/2024	

Batch R355763		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110124-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			50.0		837	250.0	580.5	102.6	836.4	0.06	11/05/2024

Batch R355763		SampType: MS		Units mg/L							Date
SampID: 24110221-002CMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.343	0.2500	0.07800	106.0	90	110	11/05/2024	

Batch R355763		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110221-002CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.336	0.2500	0.07800	103.2	0.3430	2.06	11/05/2024

Batch R355763		SampType: MS		Units mg/L							Date
SampID: 24110235-001FMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.388	0.2500	0.1300	103.2	90	110	11/05/2024	

Batch R355763		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110235-001FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.393	0.2500	0.1300	105.2	0.3880	1.28	11/05/2024

Batch R355763		SampType: MS		Units mg/L							Date
SampID: 24110337-001BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.282	0.2500	0.03700	98.0	90	110	11/05/2024	

Batch R355763		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110337-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.293	0.2500	0.03700	102.4	0.2820	3.83	11/05/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R355882		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate (as N)		0.050		< 0.050						11/07/2024	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	11/07/2024	

Batch R355882		SampType: LCS		Units mg/L							
SampID: ICV/LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.507	0.5000	0	101.4	90	110	11/07/2024	

Batch R355882		SampType: MS		Units mg/L							
SampID: 24110126-004BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		50.0		790	250.0	535.6	101.7	90	110	11/07/2024	

Batch R355882		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110126-004BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			50.0		800	250.0	535.6	105.7	790.0	1.25	11/07/2024

Batch R355882		SampType: MS		Units mg/L							
SampID: 24110522-001DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.500	S	3.13	2.500	0	125.3	90	110	11/07/2024	

Batch R355882		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110522-001DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.500	R	2.41	2.500	0	96.2	3.133	26.25	11/07/2024	

Batch R355882		SampType: MS		Units mg/L							
SampID: 24110528-003BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.100	E	2.44	0.5000	1.951	98.0	90	110	11/07/2024	



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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Batch R355882		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110528-003BMSD											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Nitrogen, Nitrate-Nitrite (as N)			0.100	E	2.46	0.5000	1.951	102.6	2.441	0.94	11/07/2024

Batch	R355882	SampType:	MS	Units mg/L							
SampID: 24110534-003AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.500		5.83	2.500	3.447	95.2	90	110	11/08/2024	

Batch R355882		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110534-003AMSD											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Nitrogen, Nitrate-Nitrite (as N)			0.500		6.08	2.500	3.447	105.2	5.828	4.20	11/08/2024

Batch R355882		SampType: MS		Units mg/L							
SampID: 24110557-003BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050	S	0.303	0.2500	0	121.2	85	115	11/07/2024	

Batch R355882		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110557-003BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050	R	0.242	0.2500	0	96.8	0.3030	22.39	11/07/2024

Batch R355882		SampType: MS		Units mg/L							
SampID: 24110575-002DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.100		0.918	0.5000	0.3860	106.4	90	110	11/08/2024	

Batch	R355882	SampType:	MSD	Units		mg/L	RPD Limit					10
SampID: 24110575-002DMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)			0.100		0.922	0.5000	0.3860	107.2	0.9180	0.43	11/08/2024	



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R355960		SampType: MBLK		Units mg/L							Date
SampID: ICB/MBLK											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate (as N)		0.050		< 0.050						11/08/2024	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	11/08/2024	

Batch R355960		SampType: LCS		Units mg/L							Date
SampID: ICV/LCS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.498	0.5000	0	99.6	90	110	11/08/2024	

Batch R355960		SampType: MS		Units mg/L							Date
SampID: 24110406-002BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.500		4.47	2.500	2.022	98.0	85	115	11/08/2024	

Batch R355960		SampType: MSD		Units mg/L							RPD Limit 10
SampID: 24110406-002BMSD											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrate-Nitrite (as N)		0.500		4.50	2.500	2.022	99.2	4.472	0.67	11/08/2024	

Batch R355960		SampType: MS		Units mg/L							Date
SampID: 24110642-005AMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.432	0.2500	0.1670	106.0	90	110	11/08/2024	

Batch R355960		SampType: MSD		Units mg/L							RPD Limit 10
SampID: 24110642-005AMSD											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.430	0.2500	0.1670	105.2	0.4320	0.46	11/08/2024	

Batch R355960		SampType: MS		Units mg/L							Date
SampID: 24110697-002AMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate-Nitrite (as N)		2.50		32.3	12.50	19.86	99.2	90	110	11/08/2024	



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

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Batch R355960		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110697-002AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			2.50		32.5	12.50	19.86	101.1	32.26	0.72	11/08/2024

Batch R355960		SampType: MS		Units mg/L							
SampID: 24110704-002DMS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		5.00		51.4	25.00	26.32	100.1	90	110	11/08/2024	

Batch	R355960	SampType:	MSD	Units						mg/L	RPD Limit		10
SampID: 24110704-002DMSD													Date
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed	
Nitrogen, Nitrate-Nitrite (as N)				5.00		51.7	25.00	26.32	101.3	51.35	0.58	11/08/2024	

Batch R355960		SampType: MS		Units mg/L							
SampID: 24110762-004AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		5.00		65.9	25.00	39.53	105.5	90	110	11/08/2024	

Batch R355960		SampType:	MSD		Units mg/L				RPD Limit 10			
SampID: 24110762-004AMSD												
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)				5.00		64.3	25.00	39.53	99.2	65.91	2.41	11/08/2024

Batch R355960		SampType: MS		Units mg/L							
SampID: 24110816-002BMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.250	0.2500	0	100.0	85	115	11/08/2024

Batch R355960		SampType:	MSD		Units mg/L				RPD Limit 10			
SampID: 24110816-002BMSD												
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)				0.050		0.245	0.2500	0	98.0	0.2500	2.02	11/08/2024

Batch R355960		SampType: MS		Units mg/L							
SampID: 24110817-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.230	0.2500	0	92.0	85	115	11/08/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R355960		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110817-002BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)			0.050		0.237	0.2500	0	94.8	0.2300	3.00	11/08/2024

STANDARD METHODS 5210 B 2001, 2011

Batch 230920		SampType:	LCS		Units mg/L							
SampID: LCS-BOD-1-110824												
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Biochemical Oxygen Demand				100	S	137	198.0	0	69.2	84.6	115.4	11/08/2024

Batch 230920		SampType: DUP		Units mg/L				RPD Limit 40			
SampID: 24110733-001ADUP											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Biochemical Oxygen Demand			10		< 10				0	0.00	11/08/2024

STANDARD METHODS 5220 D (TOTAL) 1997

Batch	R355951	SampType:	MBLK	Units								mg/L
SampID: MBLK												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed		
Chemical Oxygen Demand		50		< 50	17.00	0	0	-100	100	11/11/2024		

Batch	R355951	SampType:	LCS	Units								mg/L
SampID: LCS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed		
Chemical Oxygen Demand		50		113	112.0	0	101.3	90	110	11/11/2024		

Batch R355951		SampType: MS		Units mg/L							
SampID: 24110809-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		100		957	1000	56.29	90.0	90	110	11/11/2024	

Batch R355951		SampType:	MSD		Units mg/L				RPD Limit 10			
SampID: 24110809-001CMSD												
Analyses			Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chemical Oxygen Demand				100		961	1000	56.29	90.5	956.7	0.46	11/11/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

STANDARD METHODS 5220 D (TOTAL) 1997

Batch R355951		SampType: MS		Units mg/L						
SampID: 24110809-002CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chemical Oxygen Demand		100		944	1000	39.36	90.4	90	110	11/11/2024

Batch R355951		SampType: MSD		Units mg/L				RPD Limit 10				Date Analyzed
SampID: 24110809-002CMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chemical Oxygen Demand			100		944	1000	39.36	90.4	943.5	0.00		
11/11/2024												

Batch R355951		SampType: MS		Units mg/L							
SampID: 24110809-003CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chemical Oxygen Demand		100		944	1000	34.31	90.9	90	110	11/11/2024	

Batch R355951		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24110809-003CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chemical Oxygen Demand			100		935	1000	34.31	90.0	943.5	0.94	11/11/2024

SW-846 7196A

Batch R355901		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		< 0.0010	0.0004	0	0	-100	100	11/08/2024	

Batch R355901		SampType: LCS		Units mg/L								
SampID: LCS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed		
Chromium, Hexavalent			0.0010		0.0548	0.0500	0		109.6	90	110	11/08/2024

Batch R355901		SampType: MS		Units µg/L							
SampID: 24101589-084CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		1.00		52.9	50.00	3.800	98.2	85	115	11/08/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 7196A

Batch R355901		SampType: MSD		Units µg/L				RPD Limit 10			
SampID: 24101589-084CMSD											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Chromium, Hexavalent			1.00		52.2	50.00	3.800	96.8	52.90	1.33	11/08/2024

Batch R355901		SampType: MS		Units µg/L							
SampID: 24101589-095CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		1.00		52.3	50.00	0	104.6	85	115	11/08/2024	

Batch R355901		SampType: MS		Units µg/L							
SampID: 24110710-001FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		5.00	S	212	250.0	0	84.6	85	115	11/08/2024	

Batch R355901		SampType: MS		Units mg/L							
SampID: 24110756-001BMS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium, Hexavalent			0.0010		0.0550	0.0500	0	110.0	85	115	11/08/2024

Batch R355901		SampType: MS		Units mg/L							
SampID: 24110760-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		0.0529	0.0500	0.001700	102.4	85	115	11/08/2024	

Batch R355901		SampType: MS		Units mg/L							
SampID: 24110770-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010	H	0.0495	0.0500	0	99.0	85	115	11/08/2024	

Batch R355901		SampType: MS		Units mg/L							
SampID: 24110773-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium, Hexavalent		0.0010		0.0495	0.0500	0	99.0	85	115	11/08/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 9012A (TOTAL)

Batch 230476		SampType: MBLK		Units mg/L							
SampID: MBLK 241030 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	10/31/2024	

Batch 230476		SampType: LCS		Units mg/L							
SampID: LCS 241030 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005	S	0.028	0.0250	0	112.3	90	110	10/31/2024	

Batch 230476		SampType: MS		Units mg/L							
SampID: 24102599-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005	S	0.030	0.0250	0	120.4	90	110	10/31/2024	

Batch 230476		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24102599-001CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide			0.005	S	0.030	0.0250	0	120.9	0.03011	0.36	10/31/2024

Batch 230476		SampType: MS		Units mg/L							
SampID: 24102599-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005	S	0.030	0.0250	0	121.0	90	110	10/31/2024	

Batch 230476		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24102599-002BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide			0.005	S	0.031	0.0250	0	123.2	0.03026	1.82	10/31/2024

Batch 230567		SampType: MBLK		Units mg/L							
SampID: MBLK 241101 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	11/01/2024	

Batch 230567		SampType: LCS		Units mg/L							
SampID: LCS 241101 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.025	0.0250	0	100.6	90	110	11/01/2024	



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 9012A (TOTAL)

Batch 230567		SampType: MS		Units mg/L							
SampID: 24101589-012DMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.026	0.0250	0	104.6	75	125	11/01/2024	

Batch 230567		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24101589-012DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide			0.005		0.027	0.0250	0	107.4	0.02615	2.62	11/01/2024

Batch 230567		SampType: MS		Units mg/L							
SampID: 24101589-016DMS											
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	75	125	11/01/2024	

Batch 230567		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24101589-016DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide			0.005		0.027	0.0250	0	109.2	0.02611	4.47	11/01/2024

Batch 230595		SampType: MBLK		Units mg/L							
SampID: MBLK 241101 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	11/03/2024	

Batch 230595		SampType: LCS		Units mg/L							
SampID: LCS 241101 TCN2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.027	0.0250	0	107.4	85	115	11/03/2024	

Batch 230595		SampType: MS		Units mg/L							
SampID: 24101589-009DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.030	0.0250	0.003540	104.9	75	125	11/03/2024	

Batch 230595		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24101589-009DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide			0.005		0.030	0.0250	0.003540	106.1	0.02976	1.02	11/03/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 9012A (TOTAL)

Batch 230595		SampType: MS		Units mg/L							Date
SampID: 24101589-017DMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.028	0.0250	0	112.9	75	125	11/03/2024	

Batch 230595		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 24101589-017DMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Cyanide		0.005		0.027	0.0250	0	108.8	0.02823	3.73	11/03/2024		

Batch 230631		SampType: MBLK		Units mg/L							Date
SampID: MBLK 241102 TCN1											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	11/04/2024	

Batch 230631		SampType: LCS		Units mg/L							Date
SampID: LCS 241102 TCN1											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.026	0.0250	0	103.1	85	115	11/04/2024	

Batch 230631		SampType: MS		Units mg/L							Date
SampID: 24101589-027EMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.028	0.0250	0.003385	100.1	75	125	11/04/2024	

Batch 230631		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 24101589-027EMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Cyanide		0.005		0.028	0.0250	0.003385	100.0	0.02842	0.11	11/04/2024		

Batch 230631		SampType: MS		Units mg/L							Date
SampID: 24101589-037EMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.023	0.0250	0	90.9	75	125	11/04/2024	

Batch 230631		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 24101589-037EMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Cyanide		0.005		0.024	0.0250	0	94.9	0.02272	4.26	11/04/2024		



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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SW-846 9012A (TOTAL)

Batch 230669		SampType: MBLK		Units mg/L							
SampID: MBLK 241104 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	11/05/2024	

Batch 230669		SampType: LCS		Units mg/L							
SampID: LCS 241104 TCN4											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.022	0.0250	0	86.8	85	115	11/05/2024	

Batch 230670		SampType: MBLK		Units mg/L							
SampID: MBLK 241104 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	11/05/2024	

Batch 230670		SampType: LCS		Units mg/L							
SampID: LCS 241104 TCN5											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.022	0.0250	0	88.7	85	115	11/05/2024	

Batch 230730		SampType: MBLK		Units mg/L							
SampID: MBLK 241105 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	11/06/2024	

Batch 230730		SampType: LCS		Units mg/L							
SampID: LCS 241105 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.024	0.0250	0	96.2	90	110	11/06/2024	

Batch 230730		SampType: MS		Units mg/L							
SampID: 24102742-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.025	S	0.122	0.1250	0.01000	89.3	90	110	11/06/2024	

Batch 230730		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24102742-001CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide			0.025		0.132	0.1250	0.01000	97.3	0.1216	7.90	11/06/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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SW-846 9012A (TOTAL)

Batch 230730		SampType: MS		Units mg/L						
SampID: 24102780-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005	S	0.015	0.0250	0	61.1	90	110	11/06/2024

Batch 230730		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24102780-002AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide			0.005	S	0.015	0.0250	0	60.1	0.01528	1.68	11/06/2024

Batch 230730		SampType: MS		Units mg/L							
SampID: 24110190-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.024	0.0250	0	94.3	90	110	11/06/2024	

Batch 230730		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24110190-002AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Cyanide			0.005		0.023	0.0250	0	90.6	0.02358	4.05	11/06/2024

Batch 230957		SampType: MBLK		Units mg/L							
SampID: MBLK 241108 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	11/11/2024	

Batch 230957		SampType: LCS		Units mg/L							
SampID: LCS 241108 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	107.1	90	110	11/11/2024	

Batch 230957		SampType: MS		Units mg/L							
SampID: 24110426-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.025		0.149	0.1250	0.02088	102.6	90	110	11/11/2024	

Batch 230957		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110426-001CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide			0.025	S	0.160	0.1250	0.02088	111.3	0.1491	7.07	11/11/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 9012A (TOTAL)

Batch 230957		SampType: MS		Units µg/L							
SampID: 24110475-002EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		5.00		24.1	25.00	0	96.2	90	110	11/11/2024	

Batch 230957		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24110475-002EMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide			5.00		25.4	25.00	0	101.7	24.06	5.52	11/11/2024

Batch 230958		SampType: MBLK		Units mg/L							
SampID: MBLK 241108 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	11/11/2024	

Batch 230958		SampType: LCS		Units mg/L							
SampID: LCS 241108 TCN2											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cyanide		0.005		0.023	0.0250	0	93.1	85	115	11/11/2024	

Batch 230958		SampType: MS		Units mg/L							
SampID: 24102205-001DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.030	0.0250	0.006420	95.3	75	125	11/11/2024	

Batch 230958		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24102205-001DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide			0.005		0.029	0.0250	0.006420	92.3	0.03024	2.51	11/11/2024

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Batch R355359		SampType: MS		Units mg/L						
SampID: 24101589-010BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.96	10.00	0	99.6	80	120	10/30/2024
Chloride		5.00		237	200.0	34.99	101.2	80	120	10/30/2024
Sulfate		10.0		254	200.0	66.71	93.6	80	120	10/30/2024



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

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Batch R355359		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24101589-010BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.50		9.89	10.00	0	98.9	9.962	0.71		
Chloride		5.00		236	200.0	34.99	100.3	237.4	0.75		
Sulfate		10.0		252	200.0	66.71	92.8	253.9	0.60		

Batch R355359		SampType: MS		Units mg/L							
SampID: 24101589-011BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.50		9.86	10.00	0	98.6	80	120	10/30/2024	
Chloride		5.00		258	200.0	55.30	101.4	80	120	10/30/2024	
Sulfate		10.0		281	200.0	95.16	93.1	80	120	10/30/2024	

Batch R355359		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24101589-011BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Fluoride			0.50		9.82	10.00	0	98.2	9.855	0.36	
Chloride			5.00		257	200.0	55.30	100.9	258.0	0.38	
Sulfate			10.0		281	200.0	95.16	92.8	281.4	0.22	

Batch R355359		SampType: MS		Units mg/L						
SampID: 24101589-012BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.88	10.00	0.2460	96.3	80	120	10/30/2024
Chloride		5.00		257	200.0	55.24	100.8	80	120	10/30/2024
Sulfate		10.0		277	200.0	91.00	92.8	80	120	10/30/2024

Batch R355359		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24101589-012BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.50		9.91	10.00	0.2460	96.6	9.879	0.28		
Chloride		5.00		257	200.0	55.24	101.0	256.9	0.14		
Sulfate		10.0		277	200.0	91.00	92.9	276.6	0.07		



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Client: Ramboll

Work Order: 24101589

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Batch R355425		SampType: MS		Units mg/L						
SampID: 24101589-008BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.75	10.00	0.2760	94.7	80	120	10/31/2024
Chloride		5.00		255	200.0	49.16	103.0	80	120	10/31/2024
Sulfate		10.0		274	200.0	83.93	94.8	80	120	10/31/2024

Batch R355425		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24101589-008BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		9.75	10.00	0.2760	94.8	9.748	0.05	10/31/2024
Chloride			5.00		255	200.0	49.16	102.9	255.1	0.06	10/31/2024
Sulfate			10.0		273	200.0	83.93	94.7	273.5	0.11	10/31/2024

Batch R355425		SampType: MS		Units mg/L						
SampID: 24101589-009BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.69	10.00	0.2300	94.6	80	120	10/31/2024
Chloride		5.00		279	200.0	71.20	104.1	80	120	10/31/2024
Sulfate		10.0		235	200.0	48.10	93.4	80	120	10/31/2024

Batch R355425		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24101589-009BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.71	10.00	0.2300	94.8	9.691	0.18	10/31/2024
Chloride		5.00		280	200.0	71.20	104.2	279.3	0.10	10/31/2024
Sulfate		10.0		235	200.0	48.10	93.5	234.9	0.08	10/31/2024

Batch R355425		SampType: MS		Units mg/L						
SampID: 24101589-019BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.61	10.00	0	96.1	80	120	10/31/2024
Chloride		5.00		284	200.0	75.36	104.4	80	120	10/31/2024
Sulfate		10.0		268	200.0	78.56	94.5	80	120	10/31/2024



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Batch R355425		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24101589-019BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.50		9.64	10.00	0	96.4	9.614	0.31		
Chloride		5.00		284	200.0	75.36	104.2	284.1	0.15		
Sulfate		10.0		267	200.0	78.56	94.4	267.7	0.11		

Batch R355425		SampType: MS		Units mg/L						
SampID: 24101589-024BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.86	10.00	0.3490	95.1	80	120	10/31/2024
Chloride		5.00		336	200.0	121.8	107.0	80	120	10/31/2024
Sulfate		10.0		2220	200.0	2042	91.2	80	120	10/31/2024

Batch R355425		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24101589-024BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.92	10.00	0.3490	95.7	9.859	0.62	10/31/2024
Chloride		5.00		336	200.0	121.8	106.9	335.8	0.09	10/31/2024
Sulfate		10.0		2210	200.0	2042	82.6	2225	0.77	10/31/2024

Batch R355512		SampType: MS		Units mg/L						
SampID: 24101589-004BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.56	10.00	0	95.6	80	120	11/02/2024
Chloride		5.00		290	200.0	79.58	105.3	80	120	11/02/2024
Sulfate		10.0		268	200.0	77.84	95.1	80	120	11/02/2024

Batch R355512		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24101589-004BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Fluoride			0.50		9.65	10.00	0	96.5	9.558	0.94	
Chloride			5.00		292	200.0	79.58	106.3	290.1	0.74	
Sulfate			10.0		270	200.0	77.84	96.1	268.1	0.74	



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Batch R355512		SampType: MS		Units mg/L						
SampID: 24101589-005BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.84	10.00	0	98.4	80	120	11/01/2024
Chloride		5.00		218	200.0	16.28	100.8	80	120	11/01/2024
Sulfate		10.0		262	200.0	71.52	95.4	80	120	11/01/2024

Batch R355512		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24101589-005BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		9.81	10.00	0	98.1	9.845	0.40	11/01/2024
Chloride			5.00		217	200.0	16.28	100.4	217.9	0.36	11/01/2024
Sulfate			10.0		261	200.0	71.52	94.7	262.4	0.57	11/01/2024

Batch R355512		SampType: MS		Units mg/L						
SampID: 24101589-096BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.91	10.00	0	99.1	80	120	11/01/2024
Chloride		5.00		221	200.0	17.48	101.5	80	120	11/01/2024
Sulfate		10.0		269	200.0	76.04	96.3	80	120	11/01/2024

Batch R355512		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24101589-096BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Fluoride			0.50		9.92	10.00	0	99.2	9.906	0.16	
Chloride			5.00		221	200.0	17.48	101.7	220.5	0.13	
Sulfate			10.0		268	200.0	76.04	96.1	268.6	0.15	

Batch R355616		SampType: MS		Units mg/L						
SampID: 24101589-030BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.3	10.00	0.3450	99.6	80	120	11/06/2024
Chloride		5.00		267	200.0	51.45	108.0	80	120	11/06/2024
Sulfate		10.0		278	200.0	85.79	96.2	80	120	11/06/2024



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Batch R355616		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24101589-030BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.3	10.00	0.3450	99.5	10.30	0.10	11/06/2024
Chloride		5.00		267	200.0	51.45	107.6	267.5	0.35	11/06/2024
Sulfate		10.0		277	200.0	85.79	95.6	278.2	0.42	11/06/2024

Batch R355714		SampType: MS		Units mg/L						
SampID: 24102205-004BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.98	10.00	0.2120	97.7	80	120	11/06/2024
Chloride		5.00		1120	200.0	901.9	108.1	80	120	11/06/2024

Batch R355714		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24102205-004BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		9.97	10.00	0.2120	97.6	9.978	0.06	11/06/2024
Chloride			5.00		1120	200.0	901.9	109.4	1118	0.24	11/06/2024

Batch R355776		SampType: MS		Units mg/L						
SampID: 24101589-088BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.82	10.00	0.2610	95.6	80	120	11/08/2024
Chloride		5.00		345	200.0	123.9	110.4	80	120	11/08/2024
Sulfate		10.0		431	200.0	233.7	98.7	80	120	11/08/2024

Batch R355776		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24101589-088BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.87	10.00	0.2610	96.1	9.818	0.57	11/08/2024
Chloride		5.00		346	200.0	123.9	110.9	344.8	0.25	11/08/2024
Sulfate		10.0		432	200.0	233.7	99.0	431.2	0.12	11/08/2024

Batch R355776		SampType: MS		Units mg/L						
SampID: 24110554-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.97	10.00	0.2540	97.2	80	120	11/07/2024
Chloride		5.00		209	200.0	1.012	103.8	80	120	11/07/2024
Sulfate		10.0		201	200.0	12.86	94.1	80	120	11/07/2024



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Batch R355776		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24110554-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.0	10.00	0.2540	97.6	9.971	0.40	11/07/2024
Chloride		5.00		209	200.0	1.012	103.9	208.7	0.04	11/07/2024
Sulfate		10.0		202	200.0	12.86	94.4	201.1	0.23	11/07/2024

Batch R355776		SampType: MS		Units mg/L						
SampID: 24110554-004BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.7	10.00	0.9520	97.6	80	120	11/07/2024
Chloride		5.00		210	200.0	1.824	104.0	80	120	11/07/2024
Sulfate		10.0		225	200.0	34.81	95.1	80	120	11/07/2024

Batch R355776		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110554-004BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		10.7	10.00	0.9520	97.5	10.71	0.07	11/07/2024
Chloride			5.00		209	200.0	1.824	103.7	209.9	0.31	11/07/2024
Sulfate			10.0		225	200.0	34.81	95.0	225.1	0.11	11/07/2024

Batch R355776		SampType: MS		Units mg/L						
SampID: 24110556-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.70	10.00	0	97.0	80	120	11/07/2024
Chloride		5.00		231	200.0	20.95	105.0	80	120	11/07/2024
Sulfate		10.0		244	200.0	53.95	95.1	80	120	11/07/2024

Batch R355776		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24110556-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.77	10.00	0	97.7	9.695	0.76	11/08/2024
Chloride		5.00		233	200.0	20.95	105.8	230.9	0.73	11/08/2024
Sulfate		10.0		245	200.0	53.95	95.7	244.1	0.54	11/08/2024

Batch R355845		SampType: MS		Units mg/L						
SampID: 24102205-004BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20.0		2680	400.0	2256	104.9	80	120	11/08/2024



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Batch R355845		SampType: MSD		Units mg/L		RPD Limit 15					
SampID: 24102205-004BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			20.0		2670	400.0	2256	103.6	2676	0.19	11/08/2024

Batch R355845		SampType: MS		Units mg/L						
SampID: 24102205-011BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.82	10.00	0.3660	94.6	80	120	11/08/2024
Chloride		5.00		585	200.0	364.5	110.3	80	120	11/08/2024
Sulfate		10.0		210	200.0	26.58	91.8	80	120	11/08/2024

Batch R355845		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24102205-011BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		9.83	10.00	0.3660	94.6	9.823	0.03	11/08/2024
Chloride			5.00		584	200.0	364.5	109.8	585.1	0.18	11/08/2024
Sulfate			10.0		211	200.0	26.58	92.4	210.1	0.56	11/08/2024

Batch R355845		SampType: MS		Units mg/L						
SampID: 24102207-011BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.4	10.00	0.9280	94.3	80	120	11/08/2024
Chloride		5.00		451	200.0	230.6	110.0	80	120	11/08/2024
Sulfate		10.0		182	200.0	0	91.0	80	120	11/08/2024

Batch R355845		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24102207-011BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.4	10.00	0.9280	95.0	10.36	0.74	11/08/2024
Chloride		5.00		453	200.0	230.6	111.1	450.7	0.45	11/08/2024
Sulfate		10.0		183	200.0	0	91.7	182.0	0.81	11/08/2024

Batch R355946		SampType: MS		Units mg/L						
SampID: 24102207-002BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.1	10.00	0.7800	103.7	80	120	11/12/2024
Chloride		5.00		308	200.0	89.74	109.2	80	120	11/12/2024
Sulfate		10.0		199	200.0	12.12	93.3	80	120	11/12/2024



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Batch R355946		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24102207-002BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		11.2	10.00	0.7800	104.5	11.15	0.73	11/12/2024
Chloride		5.00		309	200.0	89.74	109.7	308.2	0.29	11/12/2024
Sulfate		10.0		200	200.0	12.12	93.9	198.7	0.61	11/12/2024

Batch R355946		SampType: MS		Units mg/L						
SampID: 24102207-004BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.7	10.00	0.2980	103.8	80	120	11/12/2024
Chloride		5.00		542	200.0	319.5	111.4	80	120	11/12/2024
Sulfate		10.0		1170	200.0	971.0	99.1	80	120	11/12/2024

Batch R355946		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24102207-004BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.7	10.00	0.2980	104.0	10.68	0.18	11/12/2024
Chloride		5.00		541	200.0	319.5	110.6	542.2	0.28	11/12/2024
Sulfate		10.0		1160	200.0	971.0	97.0	1169	0.37	11/12/2024

Batch R355946		SampType: MS		Units mg/L						
SampID: 24102207-017BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.8	10.00	0.5350	103.0	80	120	11/12/2024
Chloride		5.00		235	200.0	25.71	104.8	80	120	11/12/2024
Sulfate		10.0		339	200.0	145.3	96.7	80	120	11/12/2024

Batch R355946		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24102207-017BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.9	10.00	0.5350	103.8	10.83	0.75	11/12/2024
Chloride		5.00		237	200.0	25.71	105.4	235.2	0.54	11/12/2024
Sulfate		10.0		339	200.0	145.3	96.9	338.7	0.13	11/12/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355946		SampType: MS		Units mg/L						
SampID: 24110119-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.2	10.00	0	102.2	80	120	11/13/2024
Chloride		5.00		326	200.0	105.1	110.7	80	120	11/13/2024
Sulfate		10.0		467	200.0	262.8	102.1	80	120	11/13/2024

Batch R355946		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110119-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		10.3	10.00	0	103.0	10.22	0.71	11/13/2024
Chloride			5.00		328	200.0	105.1	111.5	326.5	0.50	11/13/2024
Sulfate			10.0		468	200.0	262.8	102.7	466.9	0.25	11/13/2024

Batch R355946		SampType: MS		Units mg/L						
SampID: 24110810-002BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.6	10.00	0.3230	102.8	80	120	11/12/2024
Chloride		5.00		249	200.0	37.34	105.6	80	120	11/12/2024
Sulfate		10.0		289	200.0	97.89	95.5	80	120	11/12/2024

Batch R355946		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24110810-002BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Fluoride			0.50		10.7	10.00	0.3230	103.5	10.60	0.65	
Chloride			5.00		251	200.0	37.34	106.7	248.6	0.90	
Sulfate			10.0		291	200.0	97.89	96.8	288.9	0.89	

Batch R355946		SampType: MS		Units mg/L						
SampID: 24110889-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.8	10.00	0.6280	102.1	80	120	11/13/2024
Chloride		5.00		305	200.0	86.92	109.1	80	120	11/13/2024
Sulfate		10.0		213	200.0	24.74	94.0	80	120	11/13/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355946		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24110889-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.8	10.00	0.6280	101.9	10.83	0.11	11/13/2024
Chloride		5.00		305	200.0	86.92	108.9	305.2	0.11	11/13/2024
Sulfate		10.0		213	200.0	24.74	94.0	212.8	0.01	11/13/2024

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355359		SampType: MBLK		Units mg/L							
SampID: MBLK/ICB											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.05		ND						10/30/2024	
Chloride		0.50		ND						10/30/2024	
Sulfate		1.00		ND						10/30/2024	

Batch R355359		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		0.97	1.000	0	97.2	90	110	10/30/2024
Chloride		0.50		19.7	20.00	0	98.4	90	110	10/30/2024
Sulfate		1.00		18.4	20.00	0	91.8	90	110	10/30/2024

Batch R355359		SampType: MS		Units mg/L						
SampID: 24101589-027AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.76	10.00	0.2400	95.2	80	120	10/30/2024
Chloride		5.00		249	200.0	48.34	100.2	80	120	10/30/2024
Sulfate		10.0		289	200.0	102.5	93.1	80	120	10/30/2024

Batch R355359		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24101589-027AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.80	10.00	0.2400	95.6	9.765	0.38	10/30/2024
Chloride		5.00		250	200.0	48.34	100.6	248.7	0.35	10/30/2024
Sulfate		10.0		289	200.0	102.5	93.4	288.8	0.18	10/30/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355425		SampType: MBLK		Units mg/L							
SampID: MBLK/ICB											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		ND						10/31/2024	
Chloride		0.50		ND						10/31/2024	
Sulfate		1.00		ND						10/31/2024	

Batch R355425		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		0.94	1.000	0	93.5	90	110	10/31/2024
Chloride		0.50		19.6	20.00	0	98.1	90	110	10/31/2024
Sulfate		1.00		18.3	20.00	0	91.7	90	110	10/31/2024

Batch R355425		SampType: MS		Units mg/L						
SampID: 24101589-006AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.53	10.00	0	95.3	80	120	10/31/2024
Chloride		5.00		268	200.0	63.64	102.4	80	120	10/31/2024
Sulfate		10.0		265	200.0	78.31	93.3	80	120	10/31/2024

Batch R355425		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24101589-006AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		9.62	10.00	0	96.2	9.529	0.97	10/31/2024
Chloride			5.00		271	200.0	63.64	103.6	268.4	0.86	10/31/2024
Sulfate			10.0		267	200.0	78.31	94.4	264.9	0.82	10/31/2024

Batch R355425		SampType: MS		Units mg/L						
SampID: 24101589-007AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.61	10.00	0	96.1	80	120	10/31/2024
Chloride		5.00		256	200.0	50.80	102.8	80	120	10/31/2024
Sulfate		10.0		257	200.0	68.95	94.2	80	120	10/31/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355425		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24101589-007AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.62	10.00	0	96.2	9.609	0.17	10/31/2024
Chloride		5.00		256	200.0	50.80	102.6	256.3	0.14	10/31/2024
Sulfate		10.0		257	200.0	68.95	93.9	257.4	0.26	10/31/2024

Batch R355512		SampType: MBLK		Units mg/L							
SampID: MBLK/ICB											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride			0.05		ND						11/01/2024
Chloride			0.50		ND						11/01/2024
Sulfate			1.00		ND						11/01/2024

Batch R355512		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		0.94	1.000	0	94.3	90	110	11/01/2024
Chloride		0.50		19.7	20.00	0	98.4	90	110	11/01/2024
Sulfate		1.00		18.3	20.00	0	91.7	90	110	11/01/2024

Batch R355512		SampType: MS		Units mg/L						
SampID: 24101589-005AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.79	10.00	0	97.9	80	120	11/01/2024
Chloride		5.00		220	200.0	18.26	101.0	80	120	11/01/2024
Sulfate		10.0		269	200.0	78.37	95.1	80	120	11/01/2024

Batch R355512		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24101589-005AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		9.81	10.00	0	98.1	9.791	0.21	11/01/2024
Chloride			5.00		221	200.0	18.26	101.2	220.3	0.16	11/01/2024
Sulfate			10.0		269	200.0	78.37	95.4	268.7	0.19	11/01/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355512		SampType: MS		Units mg/L						
SampID: 24101589-031AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.82	10.00	0.2360	95.8	80	120	11/01/2024
Chloride		5.00		240	200.0	34.88	102.4	80	120	11/01/2024
Sulfate		10.0		221	200.0	32.82	93.9	80	120	11/01/2024

Batch R355512		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24101589-031AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Fluoride			0.50		9.86	10.00	0.2360	96.2	9.816	0.42	
Chloride			5.00		241	200.0	34.88	102.9	239.7	0.44	
Sulfate			10.0		221	200.0	32.82	94.2	220.6	0.31	

Batch R355512		SampType: MS		Units mg/L						
SampID: 24102733-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.75	10.00	0	97.5	80	120	11/01/2024
Chloride		5.00		206	200.0	7.207	99.5	80	120	11/01/2024
Sulfate		10.0		192	200.0	8.074	92.2	80	120	11/01/2024

Batch R355512		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24102733-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.50		9.74	10.00	0	97.4	9.749	0.06		
Chloride		5.00		206	200.0	7.207	99.4	206.1	0.09		
Sulfate		10.0		193	200.0	8.074	92.3	192.5	0.13		

Batch R355512		SampType: MS		Units mg/L						
SampID: 24102802-003BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		5.00		290	200.0	78.92	105.6	80	120	11/01/2024
Sulfate		10.0		372	200.0	175.0	98.4	80	120	11/01/2024

Batch R355512		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24102802-003BMSD											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Chloride			5.00		290	200.0	78.92	105.8	290.0	0.15	11/01/2024
Sulfate			10.0		372	200.0	175.0	98.5	371.8	0.07	11/01/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355512		SampType: MS		Units mg/L						
SampID: 24110049-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.36	10.00	0	93.6	80	120	11/02/2024
Chloride		5.00		199	200.0	1.325	99.1	80	120	11/02/2024
Sulfate		10.0		225	200.0	37.58	94.0	80	120	11/02/2024

Batch R355512		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110049-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		9.25	10.00	0	92.5	9.360	1.19	11/02/2024
Chloride			5.00		197	200.0	1.325	97.8	199.5	1.30	11/02/2024
Sulfate			10.0		223	200.0	37.58	92.6	225.5	1.25	11/02/2024

Batch R355512		SampType: MS		Units mg/L						
SampID: 24110049-005AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		13.8	10.00	4.400	94.4	80	120	11/02/2024
Chloride		5.00		521	200.0	303.5	108.8	80	120	11/02/2024
Sulfate		10.0		407	200.0	210.9	98.1	80	120	11/02/2024

Batch R355512		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24110049-005AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Fluoride			0.50		13.8	10.00	4.400	93.6	13.84	0.55	
Chloride			5.00		517	200.0	303.5	106.9	521.2	0.74	
Sulfate			10.0		404	200.0	210.9	96.7	407.2	0.71	

Batch R355512		SampType: MS		Units mg/L							
SampID: 24110059-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		50.0		3100	2000	994.0	105.4	80	120	11/02/2024	

Batch R355512		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110059-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			50.0		3120	2000	994.0	106.2	3101	0.56	11/02/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355512		SampType: MS		Units mg/L							
SampID: 24110068-001AMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		50.0		12100	2000	10220	91.7	80	120	11/02/2024	

Batch R355512		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110068-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			50.0		12000	2000	10220	89.7	12060	0.33	11/02/2024

Batch R355616		SampType: MBLK		Units mg/L							
SampID: MBLK/ICB											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride			0.05		ND						11/05/2024
Chloride			0.50		ND						11/05/2024
Sulfate			1.00		ND						11/05/2024

Batch R355616		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		1.00	1.000	0	100.4	90	110	11/05/2024
Chloride		0.50		20.5	20.00	0	102.7	90	110	11/05/2024
Sulfate		1.00		18.5	20.00	0	92.6	90	110	11/05/2024

Batch R355616		SampType: MS		Units mg/L						
SampID: 24100001-022AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.4	10.00	1.197	101.9	80	120	11/05/2024
Chloride		5.00		1220	200.0	1042	91.0	80	120	11/05/2024
Sulfate		10.0		365	200.0	169.8	97.8	80	120	11/05/2024

Batch R355616		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24100001-022AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		11.4	10.00	1.197	102.5	11.39	0.49	11/05/2024
Chloride			5.00		1220	200.0	1042	89.9	1224	0.19	11/05/2024
Sulfate			10.0		366	200.0	169.8	98.0	365.3	0.11	11/05/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355616		SampType: MS		Units mg/L						
SampID: 24110188-003AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.88	10.00	0	98.8	80	120	11/05/2024
Chloride		5.00		374	200.0	155.0	109.5	80	120	11/05/2024
Sulfate		10.0		730	200.0	531.6	99.1	80	120	11/05/2024

Batch R355616		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110188-003AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		9.93	10.00	0	99.3	9.875	0.53	11/05/2024
Chloride			5.00		375	200.0	155.0	110.1	374.1	0.30	11/05/2024
Sulfate			10.0		731	200.0	531.6	99.5	729.9	0.10	11/05/2024

Batch R355616		SampType: MS		Units mg/L						
SampID: 24110189-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.92	10.00	0	99.2	80	120	11/05/2024
Chloride		5.00		223	200.0	16.85	103.1	80	120	11/05/2024
Sulfate		10.0		1160	200.0	953.2	101.9	80	120	11/05/2024

Batch R355616		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110189-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		9.96	10.00	0	99.6	9.923	0.37	11/05/2024
Chloride			5.00		224	200.0	16.85	103.5	223.1	0.31	11/05/2024
Sulfate			10.0		1160	200.0	953.2	103.3	1157	0.24	11/05/2024

Batch R355616		SampType: MS		Units mg/L						
SampID: 24110221-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.84	10.00	0	98.4	80	120	11/05/2024
Chloride		5.00		215	200.0	9.207	102.7	80	120	11/05/2024
Sulfate		10.0		220	200.0	33.48	93.2	80	120	11/05/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355616		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24110221-002AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.85	10.00	0	98.5	9.843	0.03	11/05/2024
Chloride		5.00		214	200.0	9.207	102.6	214.7	0.14	11/05/2024
Sulfate		10.0		219	200.0	33.48	92.9	219.8	0.27	11/05/2024

Batch R355616		SampType: MS		Units mg/L						
SampID: 24110232-002BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.7	10.00	0.7990	98.8	80	120	11/05/2024
Chloride		5.00		213	200.0	7.226	102.8	80	120	11/05/2024
Sulfate		10.0		299	200.0	107.0	95.8	80	120	11/05/2024

Batch R355616		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24110232-002BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.7	10.00	0.7990	98.6	10.68	0.20	11/05/2024
Chloride		5.00		213	200.0	7.226	102.7	212.9	0.09	11/05/2024
Sulfate		10.0		299	200.0	107.0	95.8	298.6	0.01	11/05/2024

Batch R355616		SampType: MS		Units mg/L						
SampID: 24110234-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.91	10.00	0	99.1	80	120	11/06/2024
Chloride		5.00		225	200.0	16.08	104.2	80	120	11/06/2024
Sulfate		10.0		225	200.0	39.18	93.1	80	120	11/06/2024

Batch R355616		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24110234-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.96	10.00	0	99.6	9.907	0.54	11/06/2024
Chloride		5.00		224	200.0	16.08	103.7	224.5	0.43	11/06/2024
Sulfate		10.0		225	200.0	39.18	92.7	225.4	0.38	11/06/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355616		SampType: MS		Units mg/L						
SampID: 24110236-003AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.87	10.00	0	98.7	80	120	11/05/2024
Chloride		5.00		207	200.0	2.717	102.3	80	120	11/05/2024
Sulfate		10.0		187	200.0	0	93.4	80	120	11/05/2024

Batch R355616		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24110236-003AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Fluoride			0.50		9.81	10.00	0	98.1	9.870	0.59	
Chloride			5.00		206	200.0	2.717	101.7	207.3	0.64	
Sulfate			10.0		186	200.0	0	92.8	186.8	0.69	

Batch R355714		SampType: MBLK		Units mg/L							
SampID: MBLK/ICB											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		ND						11/06/2024	
Chloride		0.50		ND						11/06/2024	
Sulfate		1.00		ND						11/06/2024	

Batch R355714		SampType: LCS		Units mg/L							
SampID: LCS/ICV/QCS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.05		0.98	1.000	0	97.5	90	110		
Chloride		0.50		20.5	20.00	0	102.6	90	110		
Sulfate		1.00		18.5	20.00	0	92.6	90	110		

Batch R355714		SampType: MS		Units mg/L							Date Analyzed
SampID: 24101589-067AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.50		10.4	10.00	0.5160	98.9	80	120		
Chloride		5.00		217	200.0	8.500	104.0	80	120		
Sulfate		10.0		1050	200.0	848.7	98.9	80	120		



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355714		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24101589-067AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.50		10.5	10.00	0.5160	99.4	10.40	0.48		
Chloride		5.00		218	200.0	8.500	104.5	216.5	0.45		
Sulfate		10.0		1050	200.0	848.7	98.8	1046	0.01		

Batch R355714		SampType: MS		Units mg/L							
SampID: 24110260-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.50		10.0	10.00	0.2180	98.1	80	120	11/06/2024	
Chloride		5.00		222	200.0	13.04	104.6	80	120	11/06/2024	
Sulfate		10.0		440	200.0	235.5	102.1	80	120	11/06/2024	

Batch R355714		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24110260-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.50		10.1	10.00	0.2180	98.6	10.03	0.54		
Chloride		5.00		223	200.0	13.04	104.9	222.3	0.19		
Sulfate		10.0		435	200.0	235.5	99.8	439.7	1.05		

Batch R355714		SampType: MS		Units mg/L						
SampID: 24110284-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.75	10.00	0	97.5	80	120	11/06/2024
Chloride		5.00		209	200.0	1.442	103.8	80	120	11/06/2024
Sulfate		10.0		219	200.0	29.47	94.6	80	120	11/06/2024

Batch R355714		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24110284-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Fluoride			0.50		9.77	10.00	0	97.7	9.752	0.15	
Chloride			5.00		209	200.0	1.442	103.8	209.0	0.03	
Sulfate			10.0		218	200.0	29.47	94.5	218.7	0.13	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355714		SampType: MS		Units mg/L						
SampID: 24110284-002BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.70	10.00	0	97.0	80	120	11/06/2024
Chloride		5.00		207	200.0	0	103.4	80	120	11/06/2024
Sulfate		10.0		187	200.0	0	93.6	80	120	11/06/2024

Batch R355714		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24110284-002BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Fluoride			0.50		9.76	10.00	0	97.6	9.701	0.56	11/06/2024
Chloride			5.00		208	200.0	0	103.8	206.8	0.43	11/06/2024
Sulfate			10.0		188	200.0	0	93.8	187.3	0.14	11/06/2024

Batch R355714		SampType: MS		Units mg/L						
SampID: 24110340-001CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.90	10.00	0	99.0	80	120	11/06/2024
Chloride		5.00		234	200.0	21.17	106.6	80	120	11/06/2024
Sulfate		10.0		200	200.0	11.46	94.5	80	120	11/06/2024

Batch R355714		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24110340-001CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.87	10.00	0	98.7	9.895	0.29	11/06/2024
Chloride		5.00		233	200.0	21.17	106.0	234.4	0.54	11/06/2024
Sulfate		10.0		199	200.0	11.46	94.0	200.4	0.47	11/06/2024

Batch R355714		SampType: MS		Units mg/L						
SampID: 24110342-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.75	10.00	0	97.5	80	120	11/07/2024
Chloride		5.00		208	200.0	1.694	103.3	80	120	11/07/2024
Sulfate		10.0		240	200.0	51.08	94.4	80	120	11/07/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355714		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24110342-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.50		9.85	10.00	0	98.5	9.753	1.00		
Chloride		5.00		211	200.0	1.694	104.4	208.3	1.05		
Sulfate		10.0		239	200.0	51.08	94.0	239.8	0.28		

Batch R355714		SampType: MS		Units mg/L							
SampID: 24110360-002AMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.50		10.4	10.00	0.4920	99.2	80	120	11/06/2024	
Chloride		5.00		409	200.0	181.4	113.9	80	120	11/06/2024	
Sulfate		10.0		231	200.0	39.35	95.6	80	120	11/06/2024	

Batch R355714		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24110360-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.50		10.4	10.00	0.4920	99.0	10.41	0.13		
Chloride		5.00		409	200.0	181.4	114.0	409.2	0.04		
Sulfate		10.0		231	200.0	39.35	95.7	230.6	0.08		

Batch R355776		SampType: MBLK		Units mg/L							
SampID: MBLK/ICB											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		ND						11/07/2024	
Chloride		0.50		ND						11/07/2024	
Sulfate		1.00		ND						11/07/2024	

Batch R355776		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		0.95	1.000	0	95.4	90	110	11/07/2024
Chloride		0.50		20.5	20.00	0	102.6	90	110	11/07/2024
Sulfate		1.00		18.6	20.00	0	92.8	90	110	11/07/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355776		SampType: MS		Units mg/L						
SampID: 24101589-083AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.2	10.00	0.5760	96.2	80	120	11/07/2024
Chloride		5.00		220	200.0	11.94	103.9	80	120	11/07/2024
Sulfate		10.0		417	200.0	219.4	98.8	80	120	11/07/2024

Batch R355776		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24101589-083AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		10.3	10.00	0.5760	97.3	10.20	0.99	11/07/2024
Chloride			5.00		222	200.0	11.94	104.9	219.7	0.90	11/07/2024
Sulfate			10.0		420	200.0	219.4	100.2	417.0	0.66	11/07/2024

Batch R355776		SampType: MS		Units mg/L						
SampID: 24110458-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.78	10.00	0	97.8	80	120	11/07/2024
Chloride		5.00		209	200.0	2.756	102.9	80	120	11/07/2024
Sulfate		10.0		225	200.0	37.62	93.7	80	120	11/07/2024

Batch R355776		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24110458-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.80	10.00	0	98.0	9.778	0.27	11/07/2024
Chloride		5.00		209	200.0	2.756	103.1	208.6	0.19	11/07/2024
Sulfate		10.0		226	200.0	37.62	94.2	225.1	0.42	11/07/2024

Batch R355776		SampType: MS		Units mg/L						
SampID: 24110475-002BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.0	10.00	0.4720	95.2	80	120	11/07/2024
Chloride		5.00		260	200.0	49.06	105.6	80	120	11/07/2024
Sulfate		10.0		224	200.0	38.23	92.9	80	120	11/07/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355776		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24110475-002BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.1	10.00	0.4720	96.3	9.995	1.04	11/07/2024
Chloride		5.00		263	200.0	49.06	106.9	260.3	0.99	11/07/2024
Sulfate		10.0		226	200.0	38.23	94.0	224.1	0.99	11/07/2024

Batch R355776		SampType: MS		Units mg/L						
SampID: 24110498-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.76	10.00	0	97.6	80	120	11/07/2024
Chloride		5.00		222	200.0	14.43	104.0	80	120	11/07/2024
Sulfate		10.0		427	200.0	227.9	99.3	80	120	11/07/2024

Batch R355776		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24110498-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.78	10.00	0	97.8	9.758	0.18	11/07/2024
Chloride		5.00		223	200.0	14.43	104.5	222.4	0.47	11/07/2024
Sulfate		10.0		427	200.0	227.9	99.4	426.6	0.02	11/07/2024

Batch R355776		SampType: MS		Units mg/L						
SampID: 24110515-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.66	10.00	0	96.6	80	120	11/07/2024
Chloride		5.00		206	200.0	0	102.9	80	120	11/07/2024
Sulfate		10.0		189	200.0	3.760	92.6	80	120	11/07/2024

Batch R355776		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24110515-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.67	10.00	0	96.7	9.661	0.08	11/07/2024
Chloride		5.00		206	200.0	0	102.9	205.8	0.03	11/07/2024
Sulfate		10.0		189	200.0	3.760	92.6	188.9	0.02	11/07/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355776		SampType: MS		Units mg/L						
SampID: 24110581-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.78	10.00	0	97.8	80	120	11/08/2024
Chloride		5.00		215	200.0	5.634	104.5	80	120	11/08/2024
Sulfate		10.0		240	200.0	48.26	95.7	80	120	11/08/2024

Batch R355776		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110581-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		9.75	10.00	0	97.5	9.783	0.37	11/08/2024
Chloride			5.00		214	200.0	5.634	104.3	214.6	0.16	11/08/2024
Sulfate			10.0		239	200.0	48.26	95.5	239.7	0.21	11/08/2024

Batch R355845		SampType: MBLK		Units mg/L							
SampID: MBLK/ICB											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		ND						11/08/2024	
Chloride		0.50		ND						11/08/2024	
Sulfate		1.00		ND						11/08/2024	

Batch R355845		SampType: LCS		Units mg/L						
SampID: LCS/ICV/QCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		0.95	1.000	0	95.2	90	110	11/08/2024
Chloride		0.50		20.5	20.00	0	102.7	90	110	11/08/2024
Sulfate		1.00		18.6	20.00	0	92.8	90	110	11/08/2024

Batch R355845		SampType: MS		Units mg/L						
SampID: 24101589-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.64	10.00	0	96.4	80	120	11/08/2024
Chloride		5.00		210	200.0	3.131	103.4	80	120	11/08/2024
Sulfate		10.0		1380	200.0	1173	105.9	80	120	11/08/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355845		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24101589-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.67	10.00	0	96.7	9.637	0.31	11/08/2024
Chloride		5.00		210	200.0	3.131	103.5	209.8	0.15	11/08/2024
Sulfate		10.0		1380	200.0	1173	103.5	1385	0.34	11/08/2024

Batch R355845		SampType: MS		Units mg/L						
SampID: 24101589-063AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.0	10.00	0.3920	96.3	80	120	11/08/2024
Chloride		5.00		222	200.0	14.40	104.0	80	120	11/08/2024
Sulfate		10.0		1020	200.0	819.3	102.6	80	120	11/08/2024

Batch R355845		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24101589-063AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.92	10.00	0.3920	95.3	10.02	1.02	11/08/2024
Chloride		5.00		219	200.0	14.40	102.5	222.4	1.41	11/08/2024
Sulfate		10.0		1020	200.0	819.3	102.0	1024	0.11	11/08/2024

Batch R355845		SampType: MS		Units mg/L						
SampID: 24101589-099AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.89	10.00	0	98.9	80	120	11/09/2024
Chloride		5.00		219	200.0	10.82	104.0	80	120	11/09/2024
Sulfate		10.0		663	200.0	461.6	101.0	80	120	11/09/2024

Batch R355845		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24101589-099AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		9.94	10.00	0	99.4	9.890	0.55	11/09/2024
Chloride		5.00		220	200.0	10.82	104.6	218.8	0.59	11/09/2024
Sulfate		10.0		666	200.0	461.6	102.3	663.5	0.39	11/09/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355845		SampType: MS		Units mg/L						
SampID: 24110557-003BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		9.54	10.00	0	95.4	80	120	11/08/2024
Chloride		5.00		397	200.0	176.6	110.0	80	120	11/08/2024
Sulfate		10.0		304	200.0	114.5	94.7	80	120	11/08/2024

Batch R355845		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110557-003BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		9.50	10.00	0	95.0	9.543	0.42	11/08/2024
Chloride			5.00		394	200.0	176.6	108.7	396.5	0.66	11/08/2024
Sulfate			10.0		302	200.0	114.5	93.8	303.9	0.61	11/08/2024

Batch R355845		SampType: MS		Units mg/L							
SampID: 24110736-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.50		87.4	10.00	77.95	94.5	80	120	11/09/2024	

Batch R355845		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110736-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		87.3	10.00	77.95	93.2	87.40	0.15	11/09/2024	

Batch R355946		SampType: MBLK		Units mg/L							
SampID: MBLK/ICB											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		ND						11/12/2024	
Chloride		0.50		ND						11/12/2024	
Sulfate		1.00		ND						11/12/2024	

Batch R355946		SampType: MBLK		Units mg/L							
SampID: MBLK-230952											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		*	0.05		ND						11/13/2024
Chloride		*	0.50	J	0.19						11/13/2024
Sulfate		*	1.00		ND						11/13/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355946		SampType: LCS		Units mg/L							
SampID: LCS/ICV/QCS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.05		1.02	1.000	0	102.1	90	110		
Chloride		0.50		20.4	20.00	0	102.0	90	110		
Sulfate		1.00		18.5	20.00	0	92.4	90	110		

Batch R355946		SampType: MS		Units mg/L							Date Analyzed	
SampID: 24110016-004BMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Fluoride		0.50		10.5	10.00	0.2460	102.5	80	120			
Chloride		5.00		527	200.0	305.2	111.1	80	120			
Sulfate		10.0		307	200.0	113.5	96.6	80	120			

Batch R355946		SampType: MSD		Units mg/L					RPD Limit 15		Date Analyzed
SampID: 24110016-004BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Fluoride		0.50		10.5	10.00	0.2460	102.6	10.50	0.11		
Chloride		5.00		526	200.0	305.2	110.2	527.3	0.33		
Sulfate		10.0		306	200.0	113.5	96.5	306.7	0.09		

Batch R355946		SampType: MS		Units mg/L						
SampID: 24110016-007BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.4	10.00	0	103.7	80	120	11/12/2024
Chloride		5.00		254	200.0	40.86	106.6	80	120	11/12/2024
Sulfate		10.0		391	200.0	190.9	100.0	80	120	11/12/2024

Batch R355946		SampType: MSD		Units mg/L					RPD Limit 15	
SampID: 24110016-007BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.4	10.00	0	104.2	10.37	0.47	11/12/2024
Chloride		5.00		255	200.0	40.86	107.0	254.1	0.30	11/12/2024
Sulfate		10.0		390	200.0	190.9	99.4	390.8	0.28	11/12/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355946		SampType: MS		Units mg/L						
SampID: 24110772-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.6	10.00	0.2490	103.2	80	120	11/12/2024
Chloride		5.00		221	200.0	11.70	104.5	80	120	11/12/2024
Sulfate		10.0		411	200.0	211.4	99.8	80	120	11/12/2024

Batch R355946		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110772-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.50		10.5	10.00	0.2490	102.8	10.57	0.39	11/12/2024
Chloride			5.00		220	200.0	11.70	104.1	220.7	0.35	11/12/2024
Sulfate			10.0		409	200.0	211.4	98.9	411.0	0.43	11/12/2024

Batch R356900		SampType: MBLK		Units mg/L							
SampID: MBLK/ICB											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.05		ND						12/03/2024	
Chloride		0.50		ND						12/03/2024	
Sulfate		1.00		ND						12/03/2024	

Batch R356900		SampType: LCS		Units mg/L							
SampID: LCS/ICV/QCS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Fluoride		0.05		0.99	1.000	0	99.1	90	110	12/03/2024	
Chloride		0.50		20.1	20.00	0	100.5	90	110	12/03/2024	
Sulfate		1.00		18.3	20.00	0	91.5	90	110	12/03/2024	

Batch R356900		SampType: MS		Units mg/L							
SampID: 24112363-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		50.0		6320	2000	4148	108.8	80	120	12/03/2024	
Sulfate		100		1990	2000	157.9	91.8	80	120	12/03/2024	

Batch R356900		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24112363-001AMSD											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Chloride			50.0		6240	2000	4148	104.7	6323	1.32	12/03/2024
Sulfate			100		1990	2000	157.9	91.6	1995	0.24	12/03/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R356900		SampType: MS		Units mg/L						
SampID: 24120076-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.1	10.00	0	101.1	80	120	12/03/2024
Chloride		5.00		208	200.0	8.385	99.7	80	120	12/03/2024
Sulfate		10.0		509	200.0	304.8	101.9	80	120	12/03/2024

Batch R356900		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24120076-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.1	10.00	0	101.4	10.11	0.34	12/03/2024
Chloride		5.00		208	200.0	8.385	99.8	207.8	0.05	12/03/2024
Sulfate		10.0		514	200.0	304.8	104.3	508.6	0.97	12/03/2024

Batch R356900		SampType: MS		Units mg/L						
SampID: 24120078-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.17	2.000	0.1756	99.6	80	120	12/03/2024
Chloride		1.00		49.4	40.00	8.713	101.8	80	120	12/03/2024
Sulfate		2.00		394	40.00	356.4	92.8	80	120	12/03/2024

Batch R356900		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24120078-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		2.16	2.000	0.1756	99.2	2.167	0.37	12/03/2024
Chloride		1.00		49.4	40.00	8.713	101.6	49.42	0.12	12/03/2024
Sulfate		2.00		398	40.00	356.4	104.0	393.6	1.13	12/03/2024

SW-846 9060A

Batch R355881		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	11/08/2024	

Batch R355881		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	11/08/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 9060A

Batch R355881		SampType: MS		Units mg/L							Date
SampID: 24110581-003DMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Total Organic Carbon (TOC)		1.0		3.3	2.500	0.9400	94.0	85	115	11/08/2024	

Batch R355881		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 24110581-003DMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Organic Carbon (TOC)		1.0		3.3	2.500	0.9400	94.8	3.290	0.61	11/08/2024		

Batch R355881		SampType: MS		Units mg/L							Date
SampID: 24110594-001EMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Total Organic Carbon (TOC)		1.0		6.5	2.500	4.090	97.6	85	115	11/08/2024	

Batch R355881		SampType: MSD		Units mg/L							RPD Limit 10	Date
SampID: 24110594-001EMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Organic Carbon (TOC)		1.0		6.6	2.500	4.090	99.6	6.530	0.76	11/08/2024		

Batch R355881		SampType: DUP		Units mg/L							RPD Limit 10	Date
SampID: 24110594-001EDUP												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Organic Carbon (TOC)		1.0		4.1				4.090	0.97	11/08/2024		

Batch R355881		SampType: DUP		Units mg/L							RPD Limit 10	Date
SampID: 24110749-003BDUP												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Total Organic Carbon (TOC)		5.0		15.7				15.66	0.32	11/08/2024		

SW-846 9066 (TOTAL)

Batch R355691		SampType: MBLK		Units mg/L							Date
SampID: ICB/MBLK											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Phenols		0.005		< 0.005	0.0028	0	0	-100	100	11/05/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 9066 (TOTAL)

Batch R355691		SampType: LCS		Units mg/L							
SampID: ICV/LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Phenols		0.005		0.051	0.0500	0	102.9	90	110	11/05/2024	

Batch R355691		SampType: MS		Units µg/L							
SampID: 24101589-038FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		5		55	50.00	0	110.8	85	115	11/05/2024	

Batch R355691		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-038FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			5		55	50.00	0	109.7	55.39	0.94	11/05/2024

Batch R355691		SampType: MS		Units µg/L							
SampID: 24101589-053FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		5		56	50.00	6.210	99.7	85	115	11/05/2024	

Batch R355691		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-053FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			5		55	50.00	6.210	97.6	56.05	1.85	11/05/2024

Batch R355691		SampType: MS		Units µg/L							
SampID: 24101589-086FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		5		57	50.00	6.900	99.9	85	115	11/05/2024	

Batch R355691		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-086FMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Phenols		5		57	50.00	6.900	100.5	56.87	0.47	11/05/2024	

Batch R355691		SampType: MS		Units mg/L							
SampID: 24110172-001GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005	S	0.063	0.0500	0.007370	111.3	90	110	11/05/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 9066 (TOTAL)

Batch R355691		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110172-001GMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			0.005		0.062	0.0500	0.007370	109.0	0.06303	1.83	11/05/2024

Batch R355691		SampType: MS		Units mg/L							
SampID: 24110190-002BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Phenols		0.005	S	0.055	0.0500	0	111.0	90	110	11/05/2024	

Batch R355691		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110190-002BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			0.005		0.053	0.0500	0	105.7	0.05549	4.91	11/05/2024

Batch R355886		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	11/08/2024	

Batch R355886		SampType: LCS		Units mg/L							
SampID: ICB/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		0.050	0.0500	0	99.5	90	110	11/08/2024	

Batch R355886		SampType: MS		Units µg/L							
SampID: 24101589-047FMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Phenols		25		373	250.0	130.7	96.8	85	115	11/08/2024	

Batch R355886		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-047FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			25		357	250.0	130.7	90.4	372.8	4.43	11/08/2024

Batch R355886		SampType: MS		Units mg/L							
SampID: 24110284-001HMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		0.048	0.0500	0	96.3	90	110	11/08/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 9066 (TOTAL)

Batch R355886		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110284-001HMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			0.005		0.051	0.0500	0	102.2	0.04813	6.01	11/08/2024

Batch R355886		SampType: MS		Units mg/L							
SampID: 24110475-002GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		0.055	0.0500	0	109.7	90	110	11/08/2024	

Batch R355886		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110475-002GMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			0.005		0.051	0.0500	0	102.9	0.05485	6.40	11/08/2024

Batch R355954		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	11/11/2024	

Batch R355954		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		0.054	0.0500	0	108.7	90	110	11/11/2024	

Batch R355954		SampType: MS		Units µg/L							
SampID: 24102207-021FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		5		51	50.00	0	102.9	85	115	11/11/2024	

Batch R355954		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24102207-021FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			5		51	50.00	0	102.8	51.45	0.06	11/11/2024

Batch R355954		SampType: MS		Units mg/L							
SampID: 24110424-001GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		0.056	0.0500	0.004240	102.8	90	110	11/11/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 9066 (TOTAL)

Batch R355954		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110424-001GMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Phenols		0.005	S	0.061	0.0500	0.004240	112.7	0.05563	8.52	11/11/2024	

Batch R356031		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	11/12/2024	

Batch R356031		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		0.052	0.0500	0	104.7	90	110	11/12/2024	

Batch R356031		SampType: MS		Units µg/L							
SampID: 24102205-010FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		5		49	50.00	0	98.3	85	115	11/12/2024	

Batch R356031		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24102205-010FMMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			5		49	50.00	0	98.5	49.16	0.20	11/12/2024

Batch R356031		SampType: MS		Units µg/L							
SampID: 24102205-012FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		5		56	50.00	2.980	105.8	85	115	11/12/2024	

Batch R356031		SampType: MSD		Units µg/L		RPD Limit 15					Date Analyzed
SampID: 24102205-012FMMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Phenols		5		56	50.00	2.980	106.1	55.87	0.29	11/12/2024	

Batch R356031		SampType: MS		Units µg/L							
SampID: 24102207-015FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		5		52	50.00	0	103.2	85	115	11/12/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 9066 (TOTAL)

Batch R356031		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24102207-015FMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Phenols		5		54	50.00	0	107.1	51.60	3.69	11/12/2024	

Batch R356031		SampType: MS		Units µg/L							
SampID: 24110556-001FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		5		49	50.00	0	98.6	85	115	11/12/2024	

Batch R356031		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24110556-001FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			5		50	50.00	0	99.2	49.31	0.55	11/12/2024

Batch R356031		SampType: MS		Units mg/L							
SampID: 24110892-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		0.053	0.0500	0	106.2	90	110	11/12/2024	

Batch R356031		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24110892-002BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phenols			0.005		0.052	0.0500	0	104.4	0.05310	1.75	11/12/2024

Batch R357002		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	12/03/2024	

Batch R357002		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		0.051	0.0500	0	102.1	90	110	12/03/2024	

Batch R357002		SampType: MS		Units mg/L							
SampID: 24112233-001EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005	S	0.028	0.0500	0	56.3	85	115	12/03/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 9066 (TOTAL)

Batch R357002		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24112233-001EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Phenols		0.005	S	0.032	0.0500	0	63.4	0.02814	11.90	12/03/2024	

Batch R357002		SampType: MS		Units mg/L							
SampID: 24120078-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Phenols		0.005		0.053	0.0500	0.003050	100.5	90	110	12/03/2024	

Batch R357002		SampType: MSD		Units mg/L				RPD Limit 15				Date Analyzed
SampID: 24120078-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Phenols		0.005		0.054	0.0500	0.003050	101.6	0.05328	1.08	12/03/2024		



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 230481 SampType: MBLK Units mg/L

SampleID: MBLK-230481

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	10/31/2024
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	10/31/2024
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	10/31/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	10/31/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	10/31/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	10/31/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	10/31/2024
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	10/31/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	10/31/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	10/31/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	10/31/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	10/31/2024
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	10/31/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	10/31/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	10/31/2024
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	10/31/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	10/31/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	10/31/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	10/31/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	10/31/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	10/31/2024
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	10/31/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	10/31/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	10/31/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 230481		SampType: LCS		Units mg/L						
SampID: LCS-230481										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Aluminum		0.0250		3.76	4.000	0	94.0	85	115	10/31/2024
Antimony		0.0500		0.949	1.000	0	94.9	85	115	10/31/2024
Arsenic		0.0250		0.954	1.000	0	95.4	85	115	10/31/2024
Barium		0.0025		3.87	4.000	0	96.8	85	115	10/31/2024
Beryllium		0.0005		0.0954	0.1000	0	95.4	85	115	10/31/2024
Boron		0.0200		0.912	1.000	0	91.2	85	115	10/31/2024
Cadmium		0.0020		0.0961	0.1000	0	96.1	85	115	10/31/2024
Calcium		0.100		4.67	5.000	0	93.4	85	115	10/31/2024
Chromium		0.0050		0.387	0.4000	0	96.7	85	115	10/31/2024
Cobalt		0.0050		0.960	1.000	0	96.0	85	115	10/31/2024
Copper		0.0050		0.478	0.5000	0	95.6	85	115	10/31/2024
Iron		0.0400		4.05	4.000	0	101.2	85	115	10/31/2024
Lead		0.0150		0.948	1.000	0	94.8	85	115	10/31/2024
Magnesium		0.0500		4.58	5.000	0	91.7	85	115	10/31/2024
Manganese		0.0070		0.935	1.000	0	93.5	85	115	10/31/2024
Molybdenum		0.0100		0.946	1.000	0	94.6	85	115	10/31/2024
Nickel		0.0050		0.966	1.000	0	96.6	85	115	10/31/2024
Potassium		0.100		5.13	5.000	0	102.7	85	115	10/31/2024
Selenium		0.0400		0.920	1.000	0	92.0	85	115	10/31/2024
Silver		0.0070		0.0950	0.1000	0	95.0	85	115	10/31/2024
Sodium		0.0500		4.83	5.000	0	96.6	85	115	10/31/2024
Thallium		0.0500		0.469	0.5000	0	93.9	85	115	10/31/2024
Vanadium		0.0100		0.973	1.000	0	97.3	85	115	10/31/2024
Zinc		0.0100		0.943	1.000	0	94.3	85	115	10/31/2024

Batch 230481		SampType: MS		Units mg/L						
SampID: 24101589-012CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	98.7	5.000	102.0	-65.0	75	125	10/31/2024
Magnesium		0.050	S	43.6	5.000	42.34	25.8	75	125	10/31/2024
Potassium		0.100		5.57	5.000	0.4048	103.3	75	125	10/31/2024
Sodium		0.050	S	49.9	5.000	50.12	-3.6	75	125	10/31/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 230481		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 24101589-012CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	104	5.000	102.0	45.2	98.71	5.43	10/31/2024
Magnesium		0.050	S	45.7	5.000	42.34	68.2	43.63	4.74	10/31/2024
Potassium		0.100		5.63	5.000	0.4048	104.4	5.568	1.02	10/31/2024
Sodium		0.050	S	50.8	5.000	50.12	13.0	49.94	1.65	10/31/2024

Batch 230481		SampType: MS		Units mg/L						
SampID: 24102446-017CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		0.952	1.000	0	95.2	75	125	10/31/2024
Barium		0.0025		3.76	4.000	0.1750	89.6	75	125	10/31/2024
Cadmium		0.0020		0.0874	0.1000	0	87.4	75	125	10/31/2024
Chromium		0.0050		0.376	0.4000	0	94.0	75	125	10/31/2024
Lead		0.0150		0.911	1.000	0.005400	90.6	75	125	10/31/2024
Selenium		0.0400		0.913	1.000	0	91.3	75	125	10/31/2024
Silver		0.0070		0.0928	0.1000	0	92.8	75	125	10/31/2024

Batch 230481		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 24102446-017CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0250		0.953	1.000	0	95.3	0.9519	0.10	10/31/2024
Barium		0.0025		3.75	4.000	0.1750	89.4	3.760	0.27	10/31/2024
Cadmium		0.0020		0.0857	0.1000	0	85.7	0.08740	1.96	10/31/2024
Chromium		0.0050		0.378	0.4000	0	94.4	0.3759	0.50	10/31/2024
Lead		0.0150		0.910	1.000	0.005400	90.4	0.9111	0.18	10/31/2024
Selenium		0.0400		0.916	1.000	0	91.7	0.9131	0.37	10/31/2024
Silver		0.0070		0.0939	0.1000	0	93.9	0.09280	1.18	10/31/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 230538 SampType: MBLK Units mg/L

SampID: MBLK-230538

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	11/04/2024
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/05/2024
Magnesium		0.050		< 0.050	0.0055	0	0	-100	100	11/05/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/04/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/05/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/04/2024
Sodium		0.050		< 0.050	0.0180	0	0	-100	100	11/05/2024

Batch 230538 SampType: LCS Units mg/L

SampID: LCS-230538

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		4.48	5.000	0	89.6	85	115	11/04/2024
Calcium		0.100		4.48	5.000	0	89.6	85	115	11/05/2024
Magnesium		0.050		4.30	5.000	0	86.0	85	115	11/05/2024
Potassium		0.100		4.88	5.000	0	97.6	85	115	11/04/2024
Potassium		0.100		5.05	5.000	0	101.0	85	115	11/05/2024
Sodium		0.0500		4.67	5.000	0	93.4	85	115	11/04/2024
Sodium		0.050		4.86	5.000	0	97.1	85	115	11/05/2024

Batch 230538 SampType: MS Units mg/L

SampID: 24101589-019CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	85.3	5.000	83.74	31.0	75	125	11/04/2024
Magnesium		0.050	S	40.3	5.000	36.86	69.2	75	125	11/05/2024
Potassium		0.100		5.36	5.000	0.4582	98.0	75	125	11/04/2024
Sodium		0.050	S	53.0	5.000	49.66	66.2	75	125	11/04/2024

Batch 230538 SampType: MSD Units mg/L

SampID: 24101589-019CMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	84.2	5.000	83.74	9.8	85.29	1.25	11/04/2024
Magnesium		0.050	S	40.3	5.000	36.86	69.0	40.32	0.03	11/05/2024
Potassium		0.100		5.35	5.000	0.4582	97.8	5.356	0.12	11/04/2024
Sodium		0.050	S	52.5	5.000	49.66	57.6	52.97	0.82	11/04/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 230538 SampType: MS Units mg/L

SampID: 24102768-003DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		0.0400		3.91	4.000	0	97.8	75	125	11/05/2024

Batch 230538 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24102768-003DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Iron		0.0400		3.97	4.000	0	99.2	3.910	1.52	11/05/2024

Batch 230540 SampType: MBLK Units mg/L

SampID: MBLK-230540

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	11/05/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/05/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/05/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/05/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/05/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/05/2024

Batch 230540 SampType: LCS Units mg/L

SampID: LCS-230540

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		4.43	5.000	0	88.5	85	115	11/05/2024
Iron		0.0400		3.82	4.000	0	95.5	85	115	11/05/2024
Magnesium		0.0500		4.27	5.000	0	85.5	85	115	11/05/2024
Manganese		0.0070		0.892	1.000	0	89.2	85	115	11/05/2024
Potassium		0.100		4.82	5.000	0	96.4	85	115	11/05/2024
Sodium		0.0500		4.66	5.000	0	93.2	85	115	11/05/2024

Batch 230540 SampType: MS Units mg/L

SampID: 24102570-002CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		0.0400		4.86	4.000	0.9568	97.6	75	125	11/05/2024
Manganese		0.0070		1.27	1.000	0.3876	88.3	75	125	11/05/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch	230540	SampType:	MSD	Units					mg/L	RPD Limit			20
SampID: 24102570-002CMSD													
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Iron			0.0400		5.03	4.000	0.9568	101.8	4.860	3.44	11/05/2024		
Manganese			0.0070		1.31	1.000	0.3876	92.6	1.270	3.35	11/05/2024		

Batch 230602 SampType: MBLK Units mg/L

SampleID: MBLK-230602											
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	11/04/2024	
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	11/04/2024	
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	11/04/2024	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/04/2024	
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/04/2024	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	11/04/2024	
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/04/2024	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/04/2024	
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/04/2024	
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/04/2024	
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/04/2024	
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/04/2024	
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	11/04/2024	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/04/2024	
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/04/2024	
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	11/04/2024	
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/04/2024	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/04/2024	
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/04/2024	
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/04/2024	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/05/2024	
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	11/04/2024	
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/04/2024	
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/04/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 230602		SampType: LCS		Units mg/L							
SampID: LCS-230602											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		3.51	4.000	0	87.8	85	115	11/04/2024	
Antimony		0.0500		0.862	1.000	0	86.2	85	115	11/04/2024	
Arsenic		0.0250		0.883	1.000	0	88.3	85	115	11/04/2024	
Barium		0.0025		3.40	4.000	0	85.0	85	115	11/04/2024	
Beryllium		0.0005		0.0918	0.1000	0	91.8	85	115	11/04/2024	
Boron		0.0200		0.856	1.000	0	85.6	85	115	11/04/2024	
Cadmium		0.0020		0.0862	0.1000	0	86.2	85	115	11/04/2024	
Calcium		0.100		4.60	5.000	0	92.0	85	115	11/04/2024	
Chromium		0.0050		0.372	0.4000	0	93.1	85	115	11/04/2024	
Cobalt		0.0050		0.970	1.000	0	97.0	85	115	11/04/2024	
Copper		0.0050		0.473	0.5000	0	94.6	85	115	11/04/2024	
Iron		0.0400		3.76	4.000	0	94.0	85	115	11/04/2024	
Lead		0.0150		0.917	1.000	0	91.7	85	115	11/04/2024	
Magnesium		0.0500		4.38	5.000	0	87.6	85	115	11/05/2024	
Manganese		0.0070		0.914	1.000	0	91.4	85	115	11/04/2024	
Molybdenum		0.0100		0.913	1.000	0	91.3	85	115	11/04/2024	
Nickel		0.0050		0.934	1.000	0	93.4	85	115	11/04/2024	
Potassium		0.100		4.75	5.000	0	95.1	85	115	11/04/2024	
Selenium		0.0400		0.873	1.000	0	87.3	85	115	11/04/2024	
Silver		0.0070		0.0881	0.1000	0	88.1	85	115	11/04/2024	
Sodium		0.0500		4.53	5.000	0	90.5	85	115	11/04/2024	
Thallium		0.0500		0.447	0.5000	0	89.4	85	115	11/04/2024	
Vanadium		0.0100		0.930	1.000	0	93.0	85	115	11/04/2024	
Zinc		0.0100		0.904	1.000	0	90.4	85	115	11/04/2024	

Batch 230602		SampType: MS		Units mg/L							Date Analyzed
SampID: 24101589-005DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100	S	69.0	5.000	66.64	46.6	75	125	11/04/2024	
Magnesium		0.050	S	30.7	5.000	27.52	63.0	75	125	11/04/2024	
Potassium		0.100		5.17	5.000	0.4215	94.9	75	125	11/04/2024	
Sodium		0.050	S	50.6	5.000	48.50	41.6	75	125	11/05/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 230602		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24101589-005DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Calcium			0.100	S	69.3	5.000	66.64	53.0	68.97	0.46	11/04/2024
Magnesium			0.050	S	31.0	5.000	27.52	68.5	30.68	0.89	11/04/2024
Potassium			0.100		5.33	5.000	0.4215	98.2	5.168	3.13	11/04/2024
Sodium			0.050	S	51.4	5.000	48.50	59.0	50.58	1.71	11/05/2024

Batch 230602		SampType: MS		Units mg/L							
SampID: 24110049-003CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Potassium		0.100		6.25	5.000	1.221	100.7	75	125	11/04/2024	
Sodium		0.0500	S	169	5.000	175.5	-132.2	75	125	11/05/2024	

Batch 230602		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 24110049-003CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Potassium			0.100		5.91	5.000	1.221	93.8	6.254	5.62	11/04/2024
Sodium			0.0500	S	168	5.000	175.5	-141.4	168.9	0.27	11/05/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 230603 SampType: MBLK Units mg/L

SampleID: MBLK-230603

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	11/04/2024
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	11/04/2024
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	11/04/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/04/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/04/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	11/04/2024
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/04/2024
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/05/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/04/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/04/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/04/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/04/2024
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	11/04/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/05/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/04/2024
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	11/04/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/04/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/05/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/04/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/04/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/04/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/05/2024
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	11/04/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/04/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/04/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 230603		SampType: LCS		Units mg/L						
SampID: LCS-230603										
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	85	115	11/05/2024
Antimony		0.0500		0.498	0.5000	0	99.5	85	115	11/05/2024
Arsenic		0.0250		0.493	0.5000	0	98.6	85	115	11/05/2024
Barium		0.0025		1.97	2.000	0	98.5	85	115	11/05/2024
Beryllium		0.0005		0.0503	0.0500	0	100.6	85	115	11/05/2024
Cadmium		0.0020		0.0478	0.0500	0	95.6	85	115	11/05/2024
Calcium		0.100		2.52	2.500	0	100.7	85	115	11/05/2024
Chromium		0.0050		0.201	0.2000	0	100.3	85	115	11/05/2024
Cobalt		0.0050		0.523	0.5000	0	104.7	85	115	11/05/2024
Copper		0.0050		0.256	0.2500	0	102.3	85	115	11/05/2024
Iron		0.0400		2.03	2.000	0	101.5	85	115	11/05/2024
Lead		0.0150		0.494	0.5000	0	98.8	85	115	11/05/2024
Magnesium		0.0500		2.33	2.500	0	93.2	85	115	11/05/2024
Manganese		0.0070		0.493	0.5000	0	98.6	85	115	11/05/2024
Molybdenum		0.0100		0.494	0.5000	0	98.8	85	115	11/05/2024
Nickel		0.0050		0.505	0.5000	0	100.9	85	115	11/05/2024
Potassium		0.100		2.50	2.500	0	99.9	85	115	11/05/2024
Selenium		0.0400		0.490	0.5000	0	98.0	85	115	11/05/2024
Silver		0.0070		0.0486	0.0500	0	97.2	85	115	11/05/2024
Sodium		0.0500		2.48	2.500	0	99.0	85	115	11/05/2024
Thallium		0.0500		0.237	0.2500	0	94.7	85	115	11/05/2024
Vanadium		0.0100		0.512	0.5000	0	102.3	85	115	11/05/2024
Zinc		0.0100		0.494	0.5000	0	98.9	85	115	11/05/2024

Batch 230735		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-230735											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/06/2024	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/06/2024	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/06/2024	
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/06/2024	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/06/2024	
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/06/2024	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/06/2024	
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/06/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 230735		SampType: LCS		Units mg/L							
SampID: LCS-230735											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100		4.65	5.000	0	93.0	85	115	11/06/2024	
Calcium		0.100		4.35	5.000	0	86.9	85	115	11/06/2024	
Magnesium		0.0500		4.28	5.000	0	85.6	85	115	11/06/2024	
Magnesium		0.0500		4.86	5.000	0	97.2	85	115	11/06/2024	
Potassium		0.100		5.00	5.000	0	99.9	85	115	11/06/2024	
Potassium		0.100		4.84	5.000	0	96.7	85	115	11/06/2024	
Sodium		0.0500		4.92	5.000	0	98.4	85	115	11/06/2024	
Sodium		0.0500		4.60	5.000	0	92.0	85	115	11/06/2024	

Batch 230956		SampType: MBLK		Units mg/L						
SampID: MBLK-230956										
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	11/11/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/11/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/11/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/11/2024

Batch 230956		SampType: LCS		Units mg/L							
SampID: LCS-230956											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100		4.71	5.000	0	94.3	85	115	11/11/2024	
Magnesium		0.0500		4.50	5.000	0	90.1	85	115	11/11/2024	
Potassium		0.100		4.94	5.000	0	98.8	85	115	11/11/2024	
Sodium		0.0500		4.87	5.000	0	97.5	85	115	11/11/2024	

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 230530		SampType: MBLK		Units mg/L						
SampID: MBLK-230530										
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	11/05/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/05/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/05/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/05/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/05/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/05/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 230530		SampType: LCS		Units mg/L						
SampID: LCS-230530										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		4.77	5.000	0	95.4	85	115	11/05/2024
Iron		0.0400		4.14	4.000	0	103.5	85	115	11/05/2024
Magnesium		0.0500		4.61	5.000	0	92.2	85	115	11/05/2024
Manganese		0.0070		0.946	1.000	0	94.6	85	115	11/05/2024
Potassium		0.100		5.27	5.000	0	105.5	85	115	11/05/2024
Sodium		0.0500		5.10	5.000	0	101.9	85	115	11/05/2024

Batch 230530		SampType: MS		Units mg/L						
SampID: 24101589-027CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	80.6	5.000	77.04	72.0	75	125	11/05/2024
Magnesium		0.050		40.1	5.000	36.00	82.8	75	125	11/05/2024
Potassium		0.100		6.24	5.000	0.8075	108.7	75	125	11/05/2024
Sodium		0.050		74.2	5.000	69.28	98.8	75	125	11/05/2024

Batch 230530		SampType: MSD		Units mg/L					RPD Limit 20		Date Analyzed
SampID: 24101589-027CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Calcium		0.100	S	83.7	5.000	77.04	134.0	80.64	3.77	11/05/2024	
Magnesium		0.050		41.7	5.000	36.00	113.1	40.14	3.70	11/05/2024	
Potassium		0.100		6.26	5.000	0.8075	109.1	6.244	0.33	11/05/2024	
Sodium		0.050	S	76.4	5.000	69.28	142.0	74.22	2.87	11/05/2024	

Batch	230585	SampType:	MBLK	Units mg/L						
SampID:		MBLK-230585		Date Analyzed						
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/04/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/04/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/04/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/04/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 230585		SampType: LCS		Units mg/L							
SampID: LCS-230585											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100		5.05	5.000	0	101.0	85	115	11/04/2024	
Magnesium		0.0500		4.92	5.000	0	98.3	85	115	11/04/2024	
Potassium		0.100		5.22	5.000	0	104.4	85	115	11/04/2024	
Sodium		0.0500		5.14	5.000	0	102.8	85	115	11/04/2024	

Batch 230585		SampType: MS		Units mg/L							Date Analyzed
SampID: 24101589-035CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100	S	58.6	5.000	51.06	151.4	75	125	11/04/2024	
Magnesium		0.050	S	31.7	5.000	25.38	126.0	75	125	11/05/2024	
Potassium		0.100		6.00	5.000	0.5979	108.0	75	125	11/04/2024	
Sodium		0.050	S	65.8	5.000	57.99	155.8	75	125	11/04/2024	

Batch 230585		SampType: MSD		Units mg/L					RPD Limit 20	
SampID: 24101589-035CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		55.7	5.000	51.06	92.0	58.63	5.20	11/04/2024
Magnesium		0.050		31.2	5.000	25.38	115.4	31.68	1.67	11/05/2024
Potassium		0.100		5.84	5.000	0.5979	104.9	5.996	2.58	11/04/2024
Sodium		0.050		63.7	5.000	57.99	113.6	65.78	3.26	11/04/2024

Batch 230586		SampType: MBLK		Units mg/L						
SampID: MBLK-230586										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/04/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/04/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/04/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/04/2024

Batch 230586		SampType: LCS		Units mg/L						
SampID: LCS-230586										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		4.95	5.000	0	98.9	85	115	11/04/2024
Magnesium		0.0500		4.73	5.000	0	94.6	85	115	11/04/2024
Potassium		0.100		5.22	5.000	0	104.3	85	115	11/04/2024
Sodium		0.0500		5.08	5.000	0	101.7	85	115	11/04/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 230586 SampType: MS Units mg/L

SampID: 24101589-047CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	156	5.000	147.5	171.0	75	125	11/04/2024
Magnesium		0.050		79.3	5.000	73.32	119.7	75	125	11/04/2024
Potassium		0.100		6.01	5.000	0.6162	107.9	75	125	11/04/2024
Sodium		0.050	S	103	5.000	94.97	151.2	75	125	11/05/2024

Batch 230586 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24101589-047CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	156	5.000	147.5	169.6	156.0	0.04	11/04/2024
Magnesium		0.050		79.2	5.000	73.32	118.3	79.31	0.09	11/04/2024
Potassium		0.100		6.00	5.000	0.6162	107.7	6.009	0.17	11/04/2024
Sodium		0.050	S	102	5.000	94.97	148.2	102.5	0.15	11/05/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 230588 SampType: MBLK Units mg/L

SampleID: MBLK-230588

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	11/04/2024
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	11/04/2024
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	11/04/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/04/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/04/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	11/04/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/04/2024
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/04/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/04/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/04/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/04/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/04/2024
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	11/04/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/04/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/04/2024
Molybdenum		0.0100		< 0.0100	0.0037	0	0	-100	100	11/04/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/04/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/04/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/04/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/04/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/04/2024
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	11/04/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/04/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/04/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 230588		SampType: LCS		Units mg/L							
SampID: LCS-230588											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		0.0250		3.80	4.000	0	95.0	85	115	11/04/2024	
Antimony		0.0500		0.996	1.000	0	99.6	85	115	11/04/2024	
Arsenic		0.0250		0.970	1.000	0	97.0	85	115	11/04/2024	
Barium		0.0025		3.66	4.000	0	91.5	85	115	11/04/2024	
Beryllium		0.0005		0.0988	0.1000	0	98.8	85	115	11/04/2024	
Boron		0.0200		0.926	1.000	0	92.6	85	115	11/04/2024	
Cadmium		0.0020		0.0930	0.1000	0	93.0	85	115	11/04/2024	
Calcium		0.100		5.04	5.000	0	100.8	85	115	11/04/2024	
Chromium		0.0050		0.399	0.4000	0	99.7	85	115	11/04/2024	
Cobalt		0.0050		1.03	1.000	0	103.5	85	115	11/04/2024	
Copper		0.0050		0.512	0.5000	0	102.4	85	115	11/04/2024	
Iron		0.0400		4.09	4.000	0	102.2	85	115	11/04/2024	
Lead		0.0150		0.981	1.000	0	98.1	85	115	11/04/2024	
Magnesium		0.0500		4.56	5.000	0	91.1	85	115	11/04/2024	
Manganese		0.0070		0.988	1.000	0	98.8	85	115	11/04/2024	
Molybdenum		0.0100		0.974	1.000	0	97.4	85	115	11/04/2024	
Nickel		0.0050		0.999	1.000	0	99.9	85	115	11/04/2024	
Potassium		0.100		5.11	5.000	0	102.3	85	115	11/04/2024	
Selenium		0.0400		0.945	1.000	0	94.5	85	115	11/04/2024	
Silver		0.0070		0.0961	0.1000	0	96.1	85	115	11/04/2024	
Sodium		0.0500		4.93	5.000	0	98.6	85	115	11/04/2024	
Thallium		0.0500		0.480	0.5000	0	96.1	85	115	11/04/2024	
Vanadium		0.0100		1.00	1.000	0	100.0	85	115	11/04/2024	
Zinc		0.0100		0.978	1.000	0	97.8	85	115	11/04/2024	

Batch 230588		SampType: MS		Units mg/L						
SampID: 24101589-097CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		94.2	5.000	88.60	111.8	75	125	11/04/2024
Magnesium		0.050		44.5	5.000	39.58	98.5	75	125	11/04/2024
Potassium		0.100		5.81	5.000	0.6101	104.1	75	125	11/04/2024
Sodium		0.050		65.4	5.000	60.83	90.6	75	125	11/05/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 230588		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 24101589-097CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		93.7	5.000	88.60	102.2	94.19	0.51	11/04/2024
Magnesium		0.050		44.4	5.000	39.58	96.1	44.50	0.27	11/04/2024
Potassium		0.100		5.89	5.000	0.6101	105.6	5.813	1.29	11/04/2024
Sodium		0.050		64.8	5.000	60.83	79.0	65.36	0.89	11/05/2024

Batch 230588		SampType: MS		Units mg/L							Date Analyzed	
SampID: 24102795-001BMS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Arsenic		0.0250		1.01	1.000	0	101.4	75	125	11/04/2024		
Copper		0.0050		0.554	0.5000	0.02820	105.2	75	125	11/04/2024		
Molybdenum		0.0100		1.02	1.000	0	102.1	75	125	11/04/2024		
Selenium		0.0400		0.970	1.000	0	97.0	75	125	11/04/2024		
Zinc		0.0100	S	7.85	1.000	34.87	-2702	75	125	11/04/2024		

Batch 230588		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 24102795-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0250		1.03	1.000	0	103.0	1.014	1.62	11/04/2024
Copper		0.0050		0.566	0.5000	0.02820	107.7	0.5540	2.23	11/04/2024
Molybdenum		0.0100		1.04	1.000	0	104.3	1.021	2.08	11/04/2024
Selenium		0.0400		0.988	1.000	0	98.8	0.9705	1.79	11/04/2024
Zinc		0.0100	S	8.14	1.000	34.87	-2673	7.850	3.63	11/04/2024

Batch 230732		SampType: MBLK		Units mg/L						
SampID: MBLK-230732										
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	11/06/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/06/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/06/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/06/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 230732 SampType: LCS Units mg/L

SampleID: LCS-230732

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		5.01	5.000	0	100.2	85	115	11/06/2024
Magnesium		0.0500		5.11	5.000	0	102.1	85	115	11/06/2024
Sodium		0.0500		5.05	5.000	0	101.0	85	115	11/06/2024

Batch 230732 SampType: MS Units mg/L

SampleID: 24110232-005DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		54.9	5.000	49.54	108.0	75	125	11/06/2024
Magnesium		0.0500		16.5	5.000	11.43	101.9	75	125	11/06/2024

Batch 230732 SampType: MSD Units mg/L

SampleID: 24110232-005DMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		54.4	5.000	49.54	96.2	54.94	1.08	11/06/2024
Magnesium		0.0500		16.3	5.000	11.43	98.1	16.53	1.15	11/06/2024

Batch 230734 SampType: MBLK Units mg/L

SampleID: MBLK-230734

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	11/06/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/06/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/06/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/06/2024

Batch 230734 SampType: LCS Units mg/L

SampleID: LCS-230734

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		4.75	5.000	0	95.0	85	115	11/06/2024
Magnesium		0.0500		4.75	5.000	0	95.0	85	115	11/06/2024
Potassium		0.100		5.18	5.000	0	103.5	85	115	11/06/2024
Sodium		0.0500		5.07	5.000	0	101.4	85	115	11/06/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 230877 SampType: MBLK Units mg/L

SampID: MBLK-230877

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	11/12/2024
Calcium		0.100		< 0.100	0.0350	0	0	-100	100	11/08/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/12/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/08/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/12/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/08/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	11/12/2024
Sodium		0.0500	J	0.018	0.0180	0	100.0	-100	100	11/08/2024

Batch 230877 SampType: LCS Units mg/L

SampID: LCS-230877

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		4.98	5.000	0	99.6	85	115	11/12/2024
Calcium		0.100		4.95	5.000	0	99.1	85	115	11/08/2024
Magnesium		0.0500		4.94	5.000	0	98.9	85	115	11/12/2024
Magnesium		0.0500		4.84	5.000	0	96.8	85	115	11/08/2024
Potassium		0.100		5.33	5.000	0	106.6	85	115	11/08/2024
Potassium		0.100		5.42	5.000	0	108.5	85	115	11/12/2024
Sodium		0.0500		5.31	5.000	0	106.1	85	115	11/12/2024
Sodium		0.0500		5.28	5.000	0	105.5	85	115	11/08/2024

Batch 230949 SampType: MBLK Units mg/L

SampID: MBLK-230949

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	11/11/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	11/11/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	11/11/2024
Sodium		0.0500	S	0.0522	0.0180	0	290.0	-100	100	11/11/2024

Batch 230949 SampType: LCS Units mg/L

SampID: LCS-230949

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		5.27	5.000	0	105.4	85	115	11/11/2024
Magnesium		0.0500		5.01	5.000	0	100.3	85	115	11/11/2024
Potassium		0.100		5.34	5.000	0	106.9	85	115	11/11/2024
Sodium		0.0500	B	5.39	5.000	0	107.8	85	115	11/11/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 230949 SampType: MS Units mg/L

SampID: 24101589-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	120	5.000	110.4	193.0	75	125	11/11/2024
Magnesium		0.050	S	56.3	5.000	49.54	135.0	75	125	11/11/2024
Potassium		0.100		7.25	5.000	1.883	107.3	75	125	11/11/2024
Sodium		0.050	BS	72.6	5.000	65.48	142.8	75	125	11/11/2024

Batch 230949 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24101589-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	118	5.000	110.4	148.2	120.0	1.88	11/11/2024
Magnesium		0.050		55.5	5.000	49.54	119.2	56.29	1.41	11/11/2024
Potassium		0.100		7.17	5.000	1.883	105.7	7.246	1.04	11/11/2024
Sodium		0.050	B	70.4	5.000	65.48	99.2	72.62	3.05	11/11/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230481		SampType: MBLK		Units µg/L							
SampleID: MBLK-230481											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/02/2024	
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/15/2024	
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/01/2024	
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/01/2024	
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/01/2024	
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/01/2024	
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/01/2024	
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/06/2024	
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/02/2024	
Copper		1.0		< 1.0	0.3000	0	0	-100	100	11/02/2024	
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/01/2024	
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/01/2024	
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/01/2024	
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/01/2024	
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/01/2024	
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/01/2024	
Silver		1.0		< 1.0	0.1000	0	0	-100	100	11/01/2024	
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/01/2024	
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/02/2024	
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/06/2024	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230481		SampType: LCS		Units µg/L							Date Analyzed
SampID: LCS-230481											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		3350	4000	0	83.8	80	120	11/02/2024	
Antimony		1.0		1040	1000	0	104.4	80	120	11/15/2024	
Arsenic		1.0		1060	1000	0	105.8	80	120	11/01/2024	
Barium		1.0		3950	4000	0	98.8	80	120	11/01/2024	
Beryllium		1.0		102	100.0	0	101.8	80	120	11/01/2024	
Boron		25.0		1000	1000	0	100.2	80	120	11/01/2024	
Cadmium		1.0		98.8	100.0	0	98.8	80	120	11/01/2024	
Chromium		1.5		423	400.0	0	105.8	80	120	11/06/2024	
Cobalt		1.0		932	1000	0	93.2	80	120	11/02/2024	
Copper		1.0		479	500.0	0	95.9	80	120	11/02/2024	
Iron		25.0		3940	4000	0	98.6	80	120	11/01/2024	
Lead		1.0		1070	1000	0	107.0	80	120	11/01/2024	
Manganese		2.0		881	1000	0	88.1	80	120	11/01/2024	
Molybdenum		1.5		849	1000	0	84.9	80	120	11/01/2024	
Nickel		1.0		924	1000	0	92.4	80	120	11/01/2024	
Selenium		1.0		1060	1000	0	105.8	80	120	11/02/2024	
Selenium		1.0	S	1290	1000	0	128.8	80	120	11/01/2024	
Silver		1.0		107	100.0	0	106.6	80	120	11/01/2024	
Thallium		2.0		500	500.0	0	100.0	80	120	11/01/2024	
Vanadium		5.0		838	1000	0	83.8	80	120	11/02/2024	
Zinc		15.0		1050	1000	0	104.8	80	120	11/06/2024	

Batch 230481		SampType: MS		Units µg/L						
SampID: 24101589-012CMS										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Antimony		1.0	SE	1390	1000	0	139.5	75	125	11/15/2024
Arsenic		1.0		1050	1000	0.5071	104.8	75	125	11/01/2024
Barium		1.0		3790	4000	74.40	92.9	75	125	11/01/2024
Boron		25.0		987	1000	0	98.7	75	125	11/01/2024
Cadmium		1.0		93.0	100.0	0	93.0	75	125	11/01/2024
Chromium		1.5		393	400.0	0	98.3	75	125	11/06/2024
Cobalt		1.0		884	1000	0.1467	88.4	75	125	11/02/2024
Lead		1.0		1030	1000	0	103.0	75	125	11/01/2024
Manganese		2.0		1050	1000	68.47	98.0	75	125	11/06/2024
Zinc		15.0		974	1000	0	97.4	75	125	11/06/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	230481	SampType:	MSD	Units µg/L				RPD Limit 20		
SampID: 24101589-012CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0	SE	1350	1000	0	134.6	1395	3.52	11/15/2024
Arsenic		1.0		1050	1000	0.5071	105.0	1048	0.25	11/01/2024
Barium		1.0		3860	4000	74.40	94.7	3792	1.85	11/01/2024
Boron		25.0		977	1000	0	97.7	986.8	0.97	11/01/2024
Cadmium		1.0		95.4	100.0	0	95.4	92.96	2.60	11/01/2024
Chromium		1.5		399	400.0	0	99.8	393.1	1.57	11/06/2024
Cobalt		1.0		860	1000	0.1467	86.0	883.9	2.69	11/02/2024
Lead		1.0		1060	1000	0	105.6	1030	2.43	11/01/2024
Manganese		2.0		1050	1000	68.47	97.7	1049	0.28	11/06/2024
Zinc		15.0		973	1000	0	97.3	973.6	0.02	11/06/2024

Batch	230538	SampType:	MBLK	Units		µg/L					
SampID: MBLK-230538											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/01/2024	
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/12/2024	
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/01/2024	
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/01/2024	
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/01/2024	
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/01/2024	
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/01/2024	
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/06/2024	
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/01/2024	
Copper		1.0		< 1.0	0.3000	0	0	-100	100	11/01/2024	
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/01/2024	
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/01/2024	
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/01/2024	
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/01/2024	
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/01/2024	
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/01/2024	
Silver		1.0		< 1.0	0.1000	0	0	-100	100	11/01/2024	
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/01/2024	
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/01/2024	
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/06/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230538		SampType: LCS		Units µg/L							
SampID: LCS-230538											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		3360	4000	0	84.1	80	120	11/01/2024	
Antimony		1.0		865	1000	0	86.5	80	120	11/11/2024	
Arsenic		1.0		963	1000	0	96.3	80	120	11/01/2024	
Barium		1.0		3670	4000	0	91.7	80	120	11/01/2024	
Beryllium		1.0		96.0	100.0	0	96.0	80	120	11/01/2024	
Boron		25.0		943	1000	0	94.3	80	120	11/01/2024	
Cadmium		1.0		92.8	100.0	0	92.8	80	120	11/01/2024	
Chromium		1.5		400	400.0	0	100.1	80	120	11/06/2024	
Cobalt		1.0		914	1000	0	91.4	80	120	11/01/2024	
Copper		1.0		468	500.0	0	93.5	80	120	11/01/2024	
Iron		25.0		3610	4000	0	90.3	80	120	11/01/2024	
Lead		1.0		845	1000	0	84.5	80	120	11/01/2024	
Manganese		2.0		976	1000	0	97.6	80	120	11/06/2024	
Molybdenum		1.5		821	1000	0	82.1	80	120	11/01/2024	
Nickel		1.0		995	1000	0	99.5	80	120	11/06/2024	
Selenium		1.0		1020	1000	0	102.3	80	120	11/01/2024	
Silver		1.0		106	100.0	0	106.2	80	120	11/01/2024	
Thallium		2.0		469	500.0	0	93.8	80	120	11/01/2024	
Vanadium		5.0		819	1000	0	81.9	80	120	11/01/2024	
Zinc		15.0		989	1000	0	98.9	80	120	11/06/2024	

Batch 230538		SampType: MS		Units µg/L							
SampID: 24101589-019CMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Antimony		1.0	SE	1350	1000	0.6905	134.5	75	125	11/15/2024	
Arsenic		1.0		1000	1000	0.4035	100.0	75	125	11/01/2024	
Barium		1.0		3570	4000	76.90	87.2	75	125	11/01/2024	
Boron		25.0		962	1000	0	96.2	75	125	11/01/2024	
Cadmium		1.0		90.9	100.0	0	90.9	75	125	11/01/2024	
Chromium		1.5		385	400.0	0	96.3	75	125	11/06/2024	
Cobalt		1.0		880	1000	0	88.0	75	125	11/01/2024	
Lead		1.0		853	1000	0	85.3	75	125	11/01/2024	
Manganese		2.0		952	1000	4.753	94.7	75	125	11/06/2024	
Zinc		15.0		952	1000	0	95.2	75	125	11/06/2024	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	230538	SampType:	MSD	Units	µg/L	RPD Limit	20				Date
SampID:	24101589-019CMSD										Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Antimony		1.0		1210	1000	0.6905	120.9	1346	10.65	11/15/2024	
Arsenic		1.0		984	1000	0.4035	98.3	1001	1.72	11/01/2024	
Barium		1.0		3550	4000	76.90	86.7	3566	0.55	11/01/2024	
Boron		25.0		945	1000	0	94.5	962.0	1.81	11/01/2024	
Cadmium		1.0		90.9	100.0	0	90.9	90.91	0.03	11/01/2024	
Chromium		1.5		380	400.0	0	95.1	385.4	1.31	11/06/2024	
Cobalt		1.0		871	1000	0	87.1	880.4	1.10	11/01/2024	
Lead		1.0		846	1000	0	84.6	852.7	0.83	11/01/2024	
Manganese		2.0		924	1000	4.753	91.9	951.9	2.99	11/06/2024	
Zinc		15.0		913	1000	0	91.3	951.8	4.11	11/06/2024	

Batch	230540	SampType:	MBLK	Units	µg/L						Date
SampID:	MBLK-230540										Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/13/2024	
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/11/2024	
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/13/2024	
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/13/2024	
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/13/2024	
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/13/2024	
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/13/2024	
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/13/2024	
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/13/2024	
Copper		1.0		< 1.0	0.3000	0	0	-100	100	11/13/2024	
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/13/2024	
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/09/2024	
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/13/2024	
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/14/2024	
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/13/2024	
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/13/2024	
Silver		1.0		< 1.0	0.1000	0	0	-100	100	11/14/2024	
Silver		1.0		< 1.0	0.1000	0	0	-100	100	11/15/2024	
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/09/2024	
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/13/2024	
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/13/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230540 SampType: LCS

Units µg/L

SampleID: LCS-230540

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		3630	4000	0	90.9	80	120	11/13/2024
Antimony		1.0		1130	1000	0	113.4	80	120	11/11/2024
Arsenic		1.0		927	1000	0	92.7	80	120	11/13/2024
Barium		1.0		4410	4000	0	110.1	80	120	11/13/2024
Beryllium		1.0		88.9	100.0	0	88.9	80	120	11/13/2024
Boron		25.0		855	1000	0	85.5	80	120	11/13/2024
Cadmium		1.0		90.4	100.0	0	90.4	80	120	11/13/2024
Chromium		1.5		381	400.0	0	95.1	80	120	11/13/2024
Cobalt		1.0		805	1000	0	80.5	80	120	11/13/2024
Copper		1.0		468	500.0	0	93.6	80	120	11/13/2024
Iron		25.0		3740	4000	0	93.5	80	120	11/13/2024
Lead		1.0		1040	1000	0	103.7	80	120	11/09/2024
Manganese		2.0		936	1000	0	93.6	80	120	11/13/2024
Molybdenum		1.5		1150	1000	0	115.4	80	120	11/14/2024
Nickel		1.0		948	1000	0	94.8	80	120	11/13/2024
Selenium		1.0		902	1000	0	90.2	80	120	11/13/2024
Silver		1.0		110	100.0	0	110.0	80	120	11/18/2024
Thallium		2.0		508	500.0	0	101.6	80	120	11/09/2024
Vanadium		5.0		999	1000	0	99.9	80	120	11/13/2024
Zinc		15.0		922	1000	0	92.2	80	120	11/13/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230540 SampType: MS

Units µg/L

SampleID: 24101589-054DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		3440	4000	0	86.0	75	125	11/14/2024
Antimony		1.0		488	500.0	0	97.5	75	125	11/16/2024
Arsenic		1.0		1030	1000	0.6753	102.9	75	125	11/14/2024
Barium		1.0		2350	2000	37.59	115.8	75	125	11/16/2024
Beryllium		1.0		96.3	100.0	0	96.3	75	125	11/14/2024
Boron		25.0	S	7560	1000	7304	25.4	75	125	11/14/2024
Cadmium		1.0		92.1	100.0	0.2756	91.9	75	125	11/14/2024
Chromium		1.5		397	400.0	1.226	99.0	75	125	11/14/2024
Cobalt		1.0		810	1000	0.1703	81.0	75	125	11/14/2024
Copper		1.0		468	500.0	2.080	93.1	75	125	11/14/2024
Iron		25.0		3900	4000	0	97.4	75	125	11/14/2024
Lead		1.0		533	500.0	0	106.6	75	125	11/19/2024
Manganese		2.0		1450	1000	409.0	104.1	75	125	11/14/2024
Molybdenum		1.5		1240	1000	0	123.6	75	125	11/14/2024
Nickel		1.0		946	1000	14.86	93.1	75	125	11/14/2024
Selenium		1.0		967	1000	4.071	96.3	75	125	11/14/2024
Silver		1.0	S	11.9	50.00	0	23.8	75	125	11/19/2024
Thallium		2.0		503	500.0	0	100.6	75	125	11/09/2024
Vanadium		5.0		1110	1000	0	110.7	75	125	11/14/2024
Zinc		15.0		910	1000	0	91.0	75	125	11/14/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	230540	SampType:	MSD	Units µg/L				RPD Limit 20		
SampID: 24101589-054DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		25.0		3480	4000	0	86.9	3439	1.13	11/14/2024
Antimony		1.0		489	500.0	0	97.7	487.5	0.22	11/16/2024
Arsenic		1.0		1020	1000	0.6753	101.9	1030	0.98	11/14/2024
Barium		1.0		2370	2000	37.59	116.8	2354	0.79	11/16/2024
Beryllium		1.0		94.0	100.0	0	94.0	96.28	2.43	11/14/2024
Boron		25.0	S	7430	1000	7304	12.8	7559	1.69	11/14/2024
Cadmium		1.0		91.3	100.0	0.2756	91.0	92.14	0.96	11/14/2024
Chromium		1.5		396	400.0	1.226	98.8	397.1	0.18	11/14/2024
Cobalt		1.0		802	1000	0.1703	80.2	810.4	1.01	11/14/2024
Copper		1.0		462	500.0	2.080	92.0	467.6	1.20	11/14/2024
Iron		25.0		3870	4000	0	96.8	3895	0.62	11/14/2024
Lead		1.0		539	500.0	0	107.7	532.8	1.09	11/19/2024
Manganese		2.0		1460	1000	409.0	105.1	1450	0.67	11/14/2024
Molybdenum		1.5		1230	1000	0	122.6	1236	0.81	11/14/2024
Nickel		1.0		948	1000	14.86	93.3	946.3	0.12	11/14/2024
Selenium		1.0		955	1000	4.071	95.1	967.3	1.32	11/14/2024
Silver		1.0	S	13.9	50.00	0	27.7	11.90	15.26	11/19/2024
Thallium		2.0		488	500.0	0	97.6	502.9	3.05	11/09/2024
Vanadium		5.0		1120	1000	0	112.3	1107	1.45	11/14/2024
Zinc		15.0		898	1000	0	89.8	910.4	1.37	11/14/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230602		SampType: MBLK		Units µg/L							Date Analyzed	
SampID: MBLK-230602												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/13/2024		
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/11/2024		
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/09/2024		
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/09/2024		
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/09/2024		
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/09/2024		
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/09/2024		
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/09/2024		
Copper		1.0		< 1.0	0.3000	0	0	-100	100	11/09/2024		
Copper		1.0		< 1.0	0.3000	0	0	-100	100	11/12/2024		
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/09/2024		
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/09/2024		
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/09/2024		
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/09/2024		
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/09/2024		
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/09/2024		
Silver		1.0		< 1.0	0.1000	0	0	-100	100	11/09/2024		
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/09/2024		
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/09/2024		
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/09/2024		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230602 SampType: LCS

Units µg/L

SampleID: LCS-230602

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		3390	4000	0	84.8	80	120	11/13/2024
Antimony		2.0		933	1000	0	93.3	80	120	11/15/2024
Arsenic		1.0		937	1000	0	93.7	80	120	11/09/2024
Barium		1.0		4370	4000	0	109.2	80	120	11/12/2024
Beryllium		1.0		95.4	100.0	0	95.4	80	120	11/09/2024
Boron		25.0		955	1000	0	95.5	80	120	11/09/2024
Cadmium		1.0		117	100.0	0	117.3	80	120	11/09/2024
Chromium		1.5		379	400.0	0	94.6	80	120	11/09/2024
Cobalt		1.0		817	1000	0	81.7	80	120	11/12/2024
Copper		1.0		462	500.0	0	92.3	80	120	11/09/2024
Iron		25.0		3750	4000	0	93.7	80	120	11/09/2024
Lead		1.0		960	1000	0	96.0	80	120	11/09/2024
Manganese		2.0		951	1000	0	95.1	80	120	11/09/2024
Molybdenum		1.5		1190	1000	0	119.3	80	120	11/09/2024
Nickel		1.0		964	1000	0	96.4	80	120	11/09/2024
Selenium		1.0		927	1000	0	92.7	80	120	11/09/2024
Silver		1.0		109	100.0	0	109.0	80	120	11/09/2024
Thallium		2.0		470	500.0	0	94.0	80	120	11/09/2024
Vanadium		5.0		1030	1000	0	102.6	80	120	11/09/2024
Zinc		15.0		885	1000	0	88.5	80	120	11/09/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230602 SampType: MS

Units µg/L

SampleID: 24101589-005DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		3760	4000	0	94.0	75	125	11/18/2024
Antimony		1.0		1050	1000	0	104.5	75	125	11/15/2024
Arsenic		1.0		925	1000	0	92.5	75	125	11/09/2024
Barium		1.0		4550	4000	46.80	112.5	75	125	11/13/2024
Beryllium		1.0		96.2	100.0	0	96.2	75	125	11/09/2024
Boron		25.0		962	1000	14.96	94.7	75	125	11/09/2024
Cadmium		1.0		115	100.0	0	115.0	75	125	11/09/2024
Chromium		1.5		365	400.0	0.7146	91.0	75	125	11/09/2024
Cobalt		1.0		828	1000	0	82.8	75	125	11/13/2024
Copper		1.0		436	500.0	0.8106	87.0	75	125	11/09/2024
Iron		25.0		3620	4000	0	90.5	75	125	11/09/2024
Lead		1.0		946	1000	0	94.6	75	125	11/09/2024
Manganese		2.0		908	1000	5.897	90.2	75	125	11/09/2024
Molybdenum		1.5		1180	1000	0.8697	118.4	75	125	11/09/2024
Nickel		1.0		878	1000	0.5641	87.7	75	125	11/09/2024
Selenium		1.0		899	1000	1.312	89.8	75	125	11/09/2024
Silver		1.0		105	100.0	0	105.2	75	125	11/09/2024
Thallium		2.0		466	500.0	0	93.1	75	125	11/09/2024
Vanadium		5.0		1000	1000	0	100.2	75	125	11/09/2024
Zinc		15.0		854	1000	0	85.4	75	125	11/09/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	230602	SampType:	MSD	Units µg/L				RPD Limit 20		
SampID: 24101589-005DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		25.0		3830	4000	0	95.6	3761	1.68	11/18/2024
Antimony		1.0		1090	1000	0	108.8	1045	4.00	11/15/2024
Arsenic		1.0		977	1000	0	97.7	924.6	5.57	11/09/2024
Barium		1.0		4650	4000	46.80	115.1	4545	2.33	11/13/2024
Beryllium		1.0		99.5	100.0	0	99.5	96.19	3.40	11/09/2024
Boron		25.0		1010	1000	14.96	99.3	961.7	4.74	11/09/2024
Cadmium		1.0		123	100.0	0	123.1	115.0	6.80	11/09/2024
Chromium		1.5		389	400.0	0.7146	97.0	364.8	6.32	11/09/2024
Cobalt		1.0		831	1000	0	83.1	828.2	0.38	11/13/2024
Copper		1.0		458	500.0	0.8106	91.5	435.8	5.03	11/09/2024
Iron		25.0		3830	4000	0	95.6	3619	5.54	11/09/2024
Lead		1.0		1000	1000	0	100.0	945.7	5.56	11/09/2024
Manganese		2.0		1010	1000	5.897	100.1	907.5	10.40	11/09/2024
Molybdenum		1.5	SE	1290	1000	0.8697	129.0	1184	8.58	11/09/2024
Nickel		1.0		1000	1000	0.5641	100.0	877.6	13.12	11/09/2024
Selenium		1.0		949	1000	1.312	94.8	898.9	5.46	11/09/2024
Silver		1.0		114	100.0	0	113.8	105.2	7.81	11/09/2024
Thallium		2.0		493	500.0	0	98.6	465.7	5.64	11/09/2024
Vanadium		5.0		1050	1000	0	105.4	1002	4.98	11/09/2024
Zinc		15.0		888	1000	0	88.8	854.0	3.85	11/09/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230603		SampType: MBLK		Units µg/L							Date Analyzed	
SampleID: MBLK-230603												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/09/2024		
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/11/2024		
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/09/2024		
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/09/2024		
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/09/2024		
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/09/2024		
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/09/2024		
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/09/2024		
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/12/2024		
Copper		1.0		< 1.0	0.3000	0	0	-100	100	11/12/2024		
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/09/2024		
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/09/2024		
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/19/2024		
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/09/2024		
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/09/2024		
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/09/2024		
Silver		1.0		< 1.0	0.1000	0	0	-100	100	11/09/2024		
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/09/2024		
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/09/2024		
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/09/2024		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230603		SampType: LCS		Units µg/L							
SampID: LCS-230603											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		3790	4000	0	94.7	80	120	11/09/2024	
Antimony		1.0		1070	1000	0	107.0	80	120	11/11/2024	
Arsenic		1.0		959	1000	0	95.9	80	120	11/09/2024	
Barium		1.0		4360	4000	0	109.1	80	120	11/12/2024	
Beryllium		1.0		96.2	100.0	0	96.2	80	120	11/09/2024	
Boron		25.0		947	1000	0	94.7	80	120	11/09/2024	
Cadmium		1.0		120	100.0	0	119.9	80	120	11/09/2024	
Chromium		1.5		384	400.0	0	95.9	80	120	11/09/2024	
Cobalt		1.0		823	1000	0	82.3	80	120	11/12/2024	
Copper		1.0		479	500.0	0	95.9	80	120	11/12/2024	
Iron		25.0		3770	4000	0	94.3	80	120	11/09/2024	
Lead		1.0		955	1000	0	95.5	80	120	11/09/2024	
Manganese		2.0		990	1000	0	99.0	80	120	11/19/2024	
Molybdenum		1.5		1090	1000	0	108.7	80	120	11/13/2024	
Nickel		1.0		951	1000	0	95.1	80	120	11/09/2024	
Selenium		1.0		947	1000	0	94.7	80	120	11/09/2024	
Silver		1.0		113	100.0	0	112.8	80	120	11/09/2024	
Thallium		2.0		467	500.0	0	93.4	80	120	11/09/2024	
Vanadium		5.0		1020	1000	0	102.2	80	120	11/09/2024	
Zinc		15.0		900	1000	0	90.0	80	120	11/09/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	230603	SampType:	MS	Units µg/L							
SampID:		24101589-098DMS									Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Aluminum		25.0		3910	4000	0	97.7	75	125	11/13/2024	
Antimony		1.0		1080	1000	0	107.8	75	125	11/15/2024	
Arsenic		1.0		1050	1000	0.5330	104.6	75	125	11/13/2024	
Barium		1.0		4670	4000	65.56	115.1	75	125	11/13/2024	
Beryllium		1.0		107	100.0	0	107.3	75	125	11/13/2024	
Boron		25.0		1060	1000	17.03	104.7	75	125	11/13/2024	
Cadmium		1.0		102	100.0	0	102.3	75	125	11/13/2024	
Cobalt		1.0		839	1000	0.5893	83.9	75	125	11/13/2024	
Copper		1.0		484	500.0	1.195	96.5	75	125	11/13/2024	
Iron		25.0		4570	4000	496.2	101.8	75	125	11/13/2024	
Lead		1.0		997	1000	0	99.7	75	125	11/09/2024	
Manganese		2.0		1440	1000	505.7	93.5	75	125	11/19/2024	
Molybdenum		1.5		1230	1000	1.487	122.7	75	125	11/14/2024	
Selenium		1.0		999	1000	0	99.9	75	125	11/13/2024	
Silver		1.0		87.6	100.0	0	87.6	75	125	11/13/2024	
Thallium		2.0		481	500.0	0	96.3	75	125	11/09/2024	
Vanadium		5.0		1110	1000	0	110.8	75	125	11/13/2024	
Zinc		15.0		986	1000	0	98.6	75	125	11/13/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	230603	SampType:	MSD	Units µg/L				RPD Limit 20			
SampID: 24101589-098DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum			25.0		3890	4000	0	97.3	3910	0.44	11/13/2024
Antimony			1.0		1080	1000	0	108.2	1078	0.36	11/15/2024
Arsenic			1.0		1020	1000	0.5330	101.5	1047	2.99	11/13/2024
Barium			1.0		4550	4000	65.56	112.2	4668	2.50	11/13/2024
Beryllium			1.0		104	100.0	0	104.4	107.3	2.75	11/13/2024
Boron			25.0		1050	1000	17.03	103.6	1064	1.01	11/13/2024
Cadmium			1.0		98.5	100.0	0	98.5	102.3	3.72	11/13/2024
Cobalt			1.0		827	1000	0.5893	82.7	839.4	1.47	11/13/2024
Copper			1.0		470	500.0	1.195	93.7	483.8	2.98	11/13/2024
Iron			25.0		4540	4000	496.2	101.2	4569	0.53	11/13/2024
Lead			1.0		981	1000	0	98.1	996.6	1.57	11/09/2024
Manganese			2.0		1430	1000	505.7	92.0	1441	1.08	11/19/2024
Molybdenum			1.5		1230	1000	1.487	123.3	1229	0.50	11/14/2024
Selenium			1.0		973	1000	0	97.3	999.3	2.63	11/13/2024
Silver			1.0		85.5	100.0	0	85.5	87.60	2.47	11/13/2024
Thallium			2.0		484	500.0	0	96.8	481.3	0.52	11/09/2024
Vanadium			5.0		1090	1000	0	108.6	1108	2.02	11/13/2024
Zinc			15.0		966	1000	0	96.6	986.3	2.11	11/13/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230735		SampType: MBLK		Units µg/L							
SampleID: MBLK-230735											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/12/2024	
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/11/2024	
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/12/2024	
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/12/2024	
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/12/2024	
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/12/2024	
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/12/2024	
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/12/2024	
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/12/2024	
Copper		1.0		< 1.0	0.3000	0	0	-100	100	11/12/2024	
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/12/2024	
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/09/2024	
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/12/2024	
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/14/2024	
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/12/2024	
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/12/2024	
Silver		1.0		< 1.0	0.1000	0	0	-100	100	11/15/2024	
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/09/2024	
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/12/2024	
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/12/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230735		SampType: LCS		Units µg/L							
SampID: LCS-230735											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		4080	4000	0	102.0	80	120	11/12/2024	
Antimony		1.0		1090	1000	0	108.5	80	120	11/11/2024	
Arsenic		1.0		1020	1000	0	101.6	80	120	11/12/2024	
Barium		1.0		4730	4000	0	118.3	80	120	11/12/2024	
Beryllium		1.0		105	100.0	0	105.4	80	120	11/12/2024	
Boron		25.0		989	1000	0	98.9	80	120	11/12/2024	
Cadmium		1.0		102	100.0	0	102.5	80	120	11/12/2024	
Chromium		1.5		425	400.0	0	106.2	80	120	11/12/2024	
Cobalt		1.0		861	1000	0	86.1	80	120	11/12/2024	
Copper		1.0		511	500.0	0	102.2	80	120	11/12/2024	
Iron		25.0		4090	4000	0	102.3	80	120	11/12/2024	
Lead		1.0		990	1000	0	99.0	80	120	11/09/2024	
Manganese		2.0		1020	1000	0	102.3	80	120	11/12/2024	
Molybdenum		1.5		1140	1000	0	114.0	80	120	11/14/2024	
Nickel		1.0		1020	1000	0	102.5	80	120	11/12/2024	
Selenium		1.0		1000	1000	0	100.4	80	120	11/12/2024	
Silver		1.0		107	100.0	0	107.4	80	120	11/18/2024	
Thallium		2.0		481	500.0	0	96.1	80	120	11/09/2024	
Vanadium		5.0		1110	1000	0	111.2	80	120	11/12/2024	
Zinc		15.0		1020	1000	0	102.1	80	120	11/12/2024	

Batch 230735		SampType: MS		Units µg/L							
SampID: 24101589-081DMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		3950	4000	0	98.9	75	125	11/14/2024	
Arsenic		1.0		1020	1000	0	102.2	75	125	11/14/2024	
Boron		25.0		1040	1000	104.3	93.5	75	125	11/20/2024	
Copper		1.0		478	500.0	2.766	95.1	75	125	11/14/2024	
Iron		25.0		4050	4000	0	101.4	75	125	11/14/2024	
Lead		1.0		994	1000	0	99.4	75	125	11/09/2024	
Manganese		20.0		1260	1000	323.3	93.4	75	125	11/14/2024	
Nickel		1.0		961	1000	4.258	95.7	75	125	11/14/2024	
Silver		1.0		99.0	100.0	0	99.0	75	125	11/19/2024	
Vanadium		5.0		1070	1000	0	106.6	75	125	11/14/2024	
Zinc		15.0		913	1000	0	91.3	75	125	11/19/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	230735	SampType:	MSD	Units				µg/L	RPD Limit			20
SampID: 24101589-081DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Aluminum		25.0		4000	4000	0	100.0	3954	1.15	11/14/2024		
Arsenic		1.0		1030	1000	0	103.3	1022	1.07	11/14/2024		
Boron		25.0		1010	1000	104.3	90.1	1039	3.31	11/20/2024		
Copper		1.0		484	500.0	2.766	96.2	478.4	1.09	11/14/2024		
Iron		25.0		4090	4000	0	102.2	4054	0.78	11/14/2024		
Lead		1.0		1020	1000	0	101.6	993.8	2.22	11/09/2024		
Manganese		20.0		1300	1000	323.3	97.8	1258	3.38	11/14/2024		
Nickel		1.0		971	1000	4.258	96.7	961.1	1.04	11/14/2024		
Silver		1.0		101	100.0	0	100.9	99.04	1.88	11/19/2024		
Vanadium		5.0		1130	1000	0	113.3	1066	6.13	11/14/2024		
Zinc		15.0		906	1000	0	90.6	913.0	0.76	11/19/2024		

Batch	230956	SampType:	MBLK	Units		µg/L					
SampID: MBLK-230956											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/14/2024	
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/16/2024	
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/14/2024	
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/14/2024	
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/14/2024	
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/14/2024	
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/14/2024	
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/14/2024	
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/14/2024	
Copper		1.0		< 1.0	0.3000	0	0	-100	100	11/14/2024	
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/14/2024	
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/16/2024	
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/14/2024	
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/14/2024	
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/14/2024	
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/14/2024	
Silver		1.0		< 1.0	0.1000	0	0	-100	100	11/19/2024	
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/14/2024	
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/14/2024	
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/19/2024	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 230956		SampType: LCS		Units µg/L							
SampID: LCS-230956											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		3790	4000	0	94.7	80	120	11/14/2024	
Antimony		1.0		1120	1000	0	112.5	80	120	11/16/2024	
Arsenic		1.0		940	1000	0	94.0	80	120	11/14/2024	
Barium		1.0		4430	4000	0	110.8	80	120	11/14/2024	
Beryllium		1.0		97.4	100.0	0	97.4	80	120	11/14/2024	
Boron		25.0		936	1000	0	93.6	80	120	11/14/2024	
Cadmium		1.0		92.6	100.0	0	92.6	80	120	11/14/2024	
Chromium		1.5		394	400.0	0	98.4	80	120	11/14/2024	
Cobalt		1.0		962	1000	0	96.2	80	120	11/19/2024	
Copper		1.0		474	500.0	0	94.7	80	120	11/14/2024	
Iron		25.0		3770	4000	0	94.3	80	120	11/14/2024	
Lead		1.0		978	1000	0	97.8	80	120	11/16/2024	
Manganese		2.0		947	1000	0	94.7	80	120	11/14/2024	
Molybdenum		1.5		1020	1000	0	102.5	80	120	11/14/2024	
Nickel		1.0		952	1000	0	95.2	80	120	11/14/2024	
Selenium		1.0		915	1000	0	91.5	80	120	11/14/2024	
Silver		1.0		105	100.0	0	104.8	80	120	11/19/2024	
Thallium		2.0		474	500.0	0	94.7	80	120	11/14/2024	
Vanadium		5.0		963	1000	0	96.3	80	120	11/14/2024	
Zinc		15.0		949	1000	0	94.9	80	120	11/19/2024	

Batch 230956		SampType: MS		Units µg/L							Date Analyzed
SampID: 24101589-075DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		3700	4000	0	92.5	75	125	11/14/2024	
Arsenic		1.0		957	1000	1.008	95.6	75	125	11/16/2024	
Boron		500	S	4870	500.0	4820	10.4	75	125	11/20/2024	
Copper		1.0		436	500.0	2.197	86.7	75	125	11/14/2024	
Iron		500	S	171000	4000	181800	-265.6	75	125	11/19/2024	
Lead		1.0		1020	1000	0	101.7	75	125	11/16/2024	
Manganese		40.0	S	20400	1000	21250	-88.8	75	125	11/19/2024	
Nickel		1.0		950	1000	60.03	89.0	75	125	11/14/2024	
Silver		1.0		48.2	50.00	0	96.4	75	125	11/19/2024	
Vanadium		5.0		1080	1000	0	107.8	75	125	11/14/2024	
Zinc		15.0		516	500.0	52.70	92.6	75	125	11/19/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch	230956	SampType:	MSD	Units				µg/L	RPD Limit			20
SampID: 24101589-075DMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Aluminum			25.0		3700	4000	0	92.4	3701	0.15	11/14/2024	
Arsenic			1.0		963	1000	1.008	96.2	957.3	0.64	11/16/2024	
Boron			500	S	4740	500.0	4820	-16.7	4872	2.82	11/20/2024	
Copper			1.0		429	500.0	2.197	85.3	435.8	1.70	11/14/2024	
Iron			500	S	157000	4000	181800	-629.0	171200	8.87	11/19/2024	
Lead			1.0		993	1000	0	99.3	1017	2.37	11/16/2024	
Manganese			40.0	S	18500	1000	21250	-272.8	20360	9.46	11/19/2024	
Nickel			1.0		931	1000	60.03	87.1	950.5	2.05	11/14/2024	
Silver			1.0		47.0	50.00	0	94.0	48.19	2.49	11/19/2024	
Vanadium			5.0		1090	1000	0	108.9	1078	0.95	11/14/2024	
Zinc			15.0		503	500.0	52.70	90.0	515.7	2.57	11/19/2024	

Batch	232049	SampType:	MBLK	Units µg/L							
SampID: MBLK-232049											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Antimony			1.0		< 1.0	0.4500	0	0	-100	100	12/11/2024
Arsenic			1.0		< 1.0	0.3750	0	0	-100	100	12/10/2024
Beryllium			1.0		< 1.0	0.2500	0	0	-100	100	12/10/2024
Boron			25.0		< 25.0	9.250	0	0	-100	100	12/10/2024
Chromium			1.5		< 1.5	0.7000	0	0	-100	100	12/10/2024
Cobalt			1.0		< 1.0	0.1150	0	0	-100	100	12/10/2024
Copper			1.0		< 1.0	0.3000	0	0	-100	100	12/10/2024
Iron			25.0		< 25.0	11.50	0	0	-100	100	12/10/2024
Lead			1.0		< 1.0	0.6000	0	0	-100	100	12/10/2024
Manganese			2.0		< 2.0	0.7500	0	0	-100	100	12/10/2024
Molybdenum			1.5		< 1.5	0.6000	0	0	-100	100	12/10/2024
Nickel			1.0		< 1.0	0.4300	0	0	-100	100	12/10/2024
Selenium			1.0		< 1.0	0.6000	0	0	-100	100	12/10/2024
Silver			1.0		< 1.0	0.1000	0	0	-100	100	12/10/2024
Thallium			2.0		< 2.0	0.9500	0	0	-100	100	12/10/2024
Vanadium			5.0		< 5.0	5.000	0	0	-100	100	12/10/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 232049		SampType: LCS		Units µg/L							
SampID: LCS-232049											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Antimony		1.0		1070	1000	0	106.7	80	120	12/11/2024	
Arsenic		1.0		908	1000	0	90.8	80	120	12/10/2024	
Beryllium		1.0		90.6	100.0	0	90.6	80	120	12/10/2024	
Boron		25.0		926	1000	0	92.6	80	120	12/10/2024	
Chromium		1.5		378	400.0	0	94.6	80	120	12/10/2024	
Cobalt		1.0		921	1000	0	92.1	80	120	12/10/2024	
Copper		1.0		463	500.0	0	92.6	80	120	12/10/2024	
Iron		25.0		3700	4000	0	92.5	80	120	12/10/2024	
Lead		1.0		912	1000	0	91.2	80	120	12/10/2024	
Manganese		2.0		915	1000	0	91.5	80	120	12/10/2024	
Molybdenum		1.5		913	1000	0	91.3	80	120	12/10/2024	
Nickel		1.0		916	1000	0	91.6	80	120	12/10/2024	
Selenium		1.0		901	1000	0	90.1	80	120	12/10/2024	
Silver		1.0		94.4	100.0	0	94.4	80	120	12/10/2024	
Thallium		2.0		450	500.0	0	90.0	80	120	12/10/2024	
Vanadium		5.0		926	1000	0	92.6	80	120	12/10/2024	

Batch 232049		SampType: MS		Units µg/L						
SampID: 24101589-098DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium		1.5		372	400.0	0	92.9	75	125	12/11/2024
Nickel		1.0		862	1000	0.6415	86.2	75	125	12/11/2024

Batch 232049		SampType: MSD		Units µg/L					RPD Limit 20		Date Analyzed
SampID: 24101589-098DMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Chromium			1.5		372	400.0	0	92.9	371.8	0.02	
Nickel			1.0		878	1000	0.6415	87.7	862.4	1.77	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 232050		SampType: MBLK		Units µg/L							
SampID: MBLK-232050											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Boron		25.0		< 25.0	9.250	0	0	-100	100	12/10/2024	
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	12/10/2024	
Copper		1.0		< 1.0	0.3000	0	0	-100	100	12/10/2024	
Iron		25.0		< 25.0	11.50	0	0	-100	100	12/10/2024	
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	12/10/2024	
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	12/10/2024	
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	12/10/2024	

Batch 232050		SampType: LCS		Units µg/L						
SampID: LCS-232050										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		25.0		942	1000	0	94.2	80	120	12/10/2024
Chromium		1.5		395	400.0	0	98.7	80	120	12/10/2024
Copper		1.0		489	500.0	0	97.7	80	120	12/10/2024
Iron		25.0		3800	4000	0	95.1	80	120	12/10/2024
Manganese		2.0		947	1000	0	94.7	80	120	12/10/2024
Molybdenum		1.5		961	1000	0	96.1	80	120	12/10/2024
Nickel		1.0		956	1000	0	95.6	80	120	12/10/2024

Batch 232343		SampType: MBLK		Units µg/L							
SampID: MBLK-232343											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Boron		25.0		< 25.0	9.250	0	0	-100	100	12/13/2024	
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	12/13/2024	
Copper		1.0		< 1.0	0.3000	0	0	-100	100	12/13/2024	
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	12/13/2024	

Batch 232343		SampType: LCS		Units µg/L							
SampID: LCS-232343											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Boron		25.0		820	1000	0	82.0	80	120	12/13/2024	
Chromium		1.5		351	400.0	0	87.7	80	120	12/13/2024	
Copper		1.0		440	500.0	0	87.9	80	120	12/13/2024	
Nickel		1.0		867	1000	0	86.7	80	120	12/13/2024	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230530 SampType: MBLK Units µg/L

SampleID: MBLK-230530

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/01/2024
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/15/2024
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/01/2024
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/01/2024
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/01/2024
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/01/2024
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/01/2024
Calcium		125		< 125	70.00	0	0	-100	100	11/06/2024
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/06/2024
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/01/2024
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/01/2024
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/01/2024
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/01/2024
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/01/2024
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/01/2024
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/01/2024
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/01/2024
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/01/2024
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/01/2024
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/01/2024
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/01/2024
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/06/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230530		SampType: LCS		Units µg/L							
SampID: LCS-230530											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		3600	4000	0	90.0	80	120	11/01/2024	
Antimony		1.0		1050	1000	0	104.6	80	120	11/15/2024	
Arsenic		1.0		1060	1000	0	106.3	80	120	11/01/2024	
Barium		1.0		4060	4000	0	101.6	80	120	11/01/2024	
Beryllium		1.0		104	100.0	0	104.2	80	120	11/01/2024	
Boron		25.0		1010	1000	0	101.2	80	120	11/01/2024	
Cadmium		1.0		105	100.0	0	105.2	80	120	11/01/2024	
Calcium		125		5150	5000	0	103.1	80	120	11/06/2024	
Chromium		1.5		430	400.0	0	107.6	80	120	11/06/2024	
Cobalt		1.0		972	1000	0	97.2	80	120	11/01/2024	
Copper		1.0		508	500.0	0	101.5	80	120	11/01/2024	
Iron		25.0		3900	4000	0	97.4	80	120	11/01/2024	
Lead		1.0		898	1000	0	89.8	80	120	11/01/2024	
Lithium	*	3.0		1030	1000	0	102.6	80	120	11/01/2024	
Manganese		2.0		1040	1000	0	103.7	80	120	11/06/2024	
Molybdenum		1.5		927	1000	0	92.7	80	120	11/01/2024	
Nickel		1.0		850	1000	0	85.0	80	120	11/01/2024	
Selenium		1.0		1130	1000	0	112.7	80	120	11/01/2024	
Silver		1.0		119	100.0	0	119.2	80	120	11/01/2024	
Thallium		2.0		481	500.0	0	96.2	80	120	11/01/2024	
Vanadium		5.0		887	1000	0	88.7	80	120	11/01/2024	
Zinc		15.0		1060	1000	0	106.4	80	120	11/06/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230530 SampType: MS Units µg/L

SampleID: 24101589-027CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		4150	4000	113.6	101.0	75	125	11/06/2024
Antimony		1.0	SE	1400	1000	5.535	139.3	75	125	11/18/2024
Arsenic		1.0		1130	1000	0.7047	112.6	75	125	11/01/2024
Barium		1.0		4160	4000	52.39	102.8	75	125	11/01/2024
Beryllium		1.0		109	100.0	0	109.3	75	125	11/01/2024
Boron		25.0		1060	1000	0	105.6	75	125	11/01/2024
Cadmium		1.0		109	100.0	0	108.6	75	125	11/01/2024
Chromium		1.5		459	400.0	25.63	108.3	75	125	11/06/2024
Cobalt		1.0		1070	1000	0.3392	107.1	75	125	11/06/2024
Copper		1.0		506	500.0	2.332	100.7	75	125	11/01/2024
Iron		25.0		4350	4000	266.1	102.2	75	125	11/06/2024
Lead		1.0		935	1000	0	93.5	75	125	11/01/2024
Lithium	*	3.0		1070	1000	6.611	106.1	75	125	11/01/2024
Manganese		2.0		2040	1000	827.0	121.6	75	125	11/06/2024
Molybdenum		1.5		956	1000	1.417	95.5	75	125	11/01/2024
Nickel		1.0		1050	1000	16.18	103.2	75	125	11/06/2024
Silver		1.0		120	100.0	0	120.0	75	125	11/01/2024
Thallium		2.0		506	500.0	0	101.2	75	125	11/01/2024
Vanadium		5.0		880	1000	0	88.0	75	125	11/01/2024
Zinc		15.0		1060	1000	0	105.9	75	125	11/06/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	230530	SampType:	MSD	Units µg/L				RPD Limit 20			
SampID: 24101589-027CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum			25.0		3950	4000	113.6	95.9	4154	5.03	11/06/2024
Antimony			1.0	SE	1300	1000	5.535	129.5	1399	7.25	11/18/2024
Arsenic			1.0		1110	1000	0.7047	111.2	1127	1.23	11/01/2024
Barium			1.0		4190	4000	52.39	103.4	4164	0.61	11/01/2024
Beryllium			1.0		109	100.0	0	109.2	109.3	0.04	11/01/2024
Boron			25.0		1070	1000	0	106.7	1056	0.98	11/01/2024
Cadmium			1.0		108	100.0	0	108.2	108.6	0.31	11/01/2024
Chromium			1.5		459	400.0	25.63	108.4	459.0	0.06	11/06/2024
Cobalt			1.0		1040	1000	0.3392	103.9	1072	3.06	11/06/2024
Copper			1.0		505	500.0	2.332	100.4	505.9	0.27	11/01/2024
Iron			25.0		4360	4000	266.1	102.4	4353	0.17	11/06/2024
Lead			1.0		939	1000	0	93.9	935.1	0.44	11/01/2024
Lithium		*	3.0		1060	1000	6.611	105.1	1068	0.95	11/01/2024
Manganese			2.0		2050	1000	827.0	122.7	2043	0.52	11/06/2024
Molybdenum			1.5		967	1000	1.417	96.6	956.5	1.15	11/01/2024
Nickel			1.0		1050	1000	16.18	103.3	1048	0.05	11/06/2024
Silver			1.0		120	100.0	0	120.0	120.0	0.07	11/01/2024
Thallium			2.0		517	500.0	0	103.5	506.2	2.19	11/01/2024
Vanadium			5.0		909	1000	0	90.9	879.6	3.28	11/01/2024
Zinc			15.0		1060	1000	0	105.7	1059	0.14	11/06/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230585 SampType: MBLK Units µg/L

SampleID: MBLK-230585

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/08/2024
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/11/2024
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/08/2024
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/08/2024
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/08/2024
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/08/2024
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/08/2024
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/08/2024
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/08/2024
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/12/2024
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/08/2024
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/08/2024
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/08/2024
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/08/2024
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/08/2024
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/08/2024
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/08/2024
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/08/2024
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/08/2024
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/08/2024
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/05/2024
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/08/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230585		SampType: LCS		Units µg/L							Date Analyzed
SampID: LCS-230585											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		4220	4000	0	105.6	80	120	11/08/2024	
Antimony		2.0		1040	1000	0	103.5	80	120	11/15/2024	
Arsenic		1.0		1020	1000	0	101.9	80	120	11/12/2024	
Barium		1.0		4690	4000	0	117.2	80	120	11/12/2024	
Beryllium		1.0		112	100.0	0	112.0	80	120	11/08/2024	
Boron		25.0		1090	1000	0	109.4	80	120	11/08/2024	
Cadmium		1.0		103	100.0	0	103.3	80	120	11/13/2024	
Chromium		1.5		434	400.0	0	108.6	80	120	11/08/2024	
Cobalt		1.0		890	1000	0	89.0	80	120	11/08/2024	
Iron		25.0		4280	4000	0	106.9	80	120	11/08/2024	
Lead		1.0		1090	1000	0	108.7	80	120	11/08/2024	
Lithium	*	3.0		1150	1000	0	115.0	80	120	11/08/2024	
Manganese		2.0		1150	1000	0	114.6	80	120	11/08/2024	
Molybdenum		1.5	S	1220	1000	0	121.8	80	120	11/13/2024	
Molybdenum		3.0		995	1000	0	99.5	80	120	11/15/2024	
Nickel		1.0	S	1240	1000	0	124.2	80	120	11/08/2024	
Nickel		1.0		1040	1000	0	104.3	80	120	11/12/2024	
Selenium		1.0		1020	1000	0	102.2	80	120	11/12/2024	
Silver		2.0		106	100.0	0	105.6	80	120	11/15/2024	
Thallium		2.0		532	500.0	0	106.4	80	120	11/08/2024	
Vanadium		5.0		1170	1000	0	116.9	80	120	11/08/2024	
Zinc		15.0		993	1000	0	99.3	80	120	11/05/2024	
Zinc		15.0		1020	1000	0	102.0	80	120	11/08/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	230585	SampType:	MS	Units µg/L							
SampID:		24101589-035CMS								Date Analyzed	
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Aluminum			25.0		4330	4000	31.60	107.4	75	125	11/08/2024
Antimony			1.0		1170	1000	0	117.1	75	125	11/15/2024
Arsenic			1.0		1050	1000	0	104.6	75	125	11/13/2024
Barium			1.0		4940	4000	56.98	122.0	75	125	11/13/2024
Beryllium			1.0		111	100.0	0	110.9	75	125	11/08/2024
Boron			25.0		1100	1000	0	110.2	75	125	11/08/2024
Cadmium			1.0		110	100.0	0	109.6	75	125	11/13/2024
Chromium			1.5		433	400.0	6.820	106.6	75	125	11/08/2024
Cobalt			1.0		867	1000	0.1707	86.7	75	125	11/08/2024
Copper			1.0		514	500.0	3.777	102.0	75	125	11/13/2024
Iron			25.0		4300	4000	80.40	105.4	75	125	11/08/2024
Lead			1.0		1090	1000	0	109.4	75	125	11/08/2024
Lithium	*		3.0		1150	1000	1.493	114.4	75	125	11/08/2024
Manganese			2.0		1110	1000	12.58	110.0	75	125	11/08/2024
Molybdenum			1.5	SE	1300	1000	0.8172	130.2	75	125	11/13/2024
Nickel			1.0		1040	1000	5.518	103.6	75	125	11/13/2024
Selenium			1.0		1020	1000	0	102.3	75	125	11/13/2024
Silver			1.0		84.3	100.0	0	84.3	75	125	11/15/2024
Thallium			2.0		530	500.0	0	106.1	75	125	11/08/2024
Vanadium			5.0		1170	1000	0	116.8	75	125	11/08/2024
Zinc			15.0		996	1000	0	99.6	75	125	11/08/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	230585	SampType:	MSD	Units µg/L			RPD Limit 20			
SampID:		24101589-035CMSD								
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		25.0		4190	4000	31.60	103.9	4328	3.26	11/08/2024
Antimony		1.0		1150	1000	0	114.6	1171	2.12	11/15/2024
Arsenic		1.0		1030	1000	0	102.8	1046	1.69	11/13/2024
Barium		1.0		4820	4000	56.98	119.1	4937	2.36	11/13/2024
Beryllium		1.0		108	100.0	0	107.8	110.9	2.76	11/08/2024
Boron		25.0		1060	1000	0	105.5	1102	4.34	11/08/2024
Cadmium		1.0		110	100.0	0	109.7	109.6	0.10	11/13/2024
Chromium		1.5		418	400.0	6.820	102.8	433.2	3.53	11/08/2024
Cobalt		1.0		843	1000	0.1707	84.3	867.4	2.82	11/08/2024
Copper		1.0		507	500.0	3.777	100.6	513.9	1.38	11/13/2024
Iron		25.0		4140	4000	80.40	101.5	4295	3.70	11/08/2024
Lead		1.0		1050	1000	0	104.8	1094	4.33	11/08/2024
Lithium	*	3.0		1090	1000	1.493	109.0	1146	4.81	11/08/2024
Manganese		2.0		1110	1000	12.58	110.1	1113	0.05	11/08/2024
Molybdenum		1.5	SE	1320	1000	0.8172	132.0	1303	1.37	11/13/2024
Nickel		1.0		1010	1000	5.518	100.4	1042	3.18	11/13/2024
Selenium		1.0		1000	1000	0	100.5	1023	1.82	11/13/2024
Silver		1.0		85.6	100.0	0	85.6	84.29	1.49	11/15/2024
Thallium		2.0		513	500.0	0	102.7	530.4	3.26	11/08/2024
Vanadium		5.0		1120	1000	0	112.5	1168	3.78	11/08/2024
Zinc		15.0		947	1000	0	94.7	995.9	5.04	11/08/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230586 SampType: MBLK Units µg/L

SampleID: MBLK-230586

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0	S	40.8	12.50	0	326.0	-100	100	11/13/2024
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/11/2024
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/08/2024
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/12/2024
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/08/2024
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/12/2024
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/08/2024
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/08/2024
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/08/2024
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/12/2024
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/08/2024
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/08/2024
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/08/2024
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/08/2024
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/08/2024
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/08/2024
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/08/2024
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/08/2024
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/08/2024
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/08/2024
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/12/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	230586	SampType:	LCS	Units µg/L							
SampleID:		LCS-230586									Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Aluminum			25.0	B	3770	4000	0	94.1	80	120	11/13/2024
Antimony			2.0		1040	1000	0	104.3	80	120	11/15/2024
Arsenic			1.0		1040	1000	0	104.5	80	120	11/12/2024
Barium			2.0		4620	4000	0	115.4	80	120	11/15/2024
Beryllium			1.0		108	100.0	0	108.3	80	120	11/08/2024
Boron			25.0		985	1000	0	98.5	80	120	11/12/2024
Cadmium			1.0		102	100.0	0	101.6	80	120	11/12/2024
Chromium			1.5		431	400.0	0	107.7	80	120	11/08/2024
Cobalt			1.0		877	1000	0	87.7	80	120	11/08/2024
Copper			1.0		529	500.0	0	105.9	80	120	11/12/2024
Iron			25.0		4250	4000	0	106.1	80	120	11/08/2024
Lead			1.0		1080	1000	0	107.6	80	120	11/08/2024
Lithium		*	3.0		1140	1000	0	113.7	80	120	11/08/2024
Manganese			2.0		1070	1000	0	107.4	80	120	11/08/2024
Molybdenum			1.5		1180	1000	0	118.4	80	120	11/13/2024
Nickel			1.0		1170	1000	0	116.7	80	120	11/08/2024
Selenium			1.0		1020	1000	0	102.4	80	120	11/12/2024
Silver			1.0		91.0	100.0	0	91.0	80	120	11/12/2024
Thallium			2.0		523	500.0	0	104.5	80	120	11/08/2024
Vanadium			5.0		1160	1000	0	115.7	80	120	11/08/2024
Zinc			15.0		1040	1000	0	103.7	80	120	11/12/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230586 SampType: MS Units µg/L

SampleID: 24101589-047CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		1090	1000	0.5823	109.0	75	125	11/12/2024
Barium		1.0		4500	4000	29.85	111.8	75	125	11/15/2024
Beryllium		1.0		107	100.0	0	107.5	75	125	11/08/2024
Cadmium		1.0		108	100.0	0	108.3	75	125	11/12/2024
Chromium		1.5		406	400.0	0.7224	101.3	75	125	11/08/2024
Cobalt		1.0		836	1000	0.2332	83.6	75	125	11/08/2024
Copper		1.0		522	500.0	1.690	104.1	75	125	11/12/2024
Iron		25.0		4130	4000	125.9	100.0	75	125	11/08/2024
Lead		1.0		1040	1000	0	104.3	75	125	11/08/2024
Lithium	*	3.0		1110	1000	7.586	110.1	75	125	11/08/2024
Manganese		2.0		1170	1000	99.94	107.1	75	125	11/08/2024
Molybdenum		1.5	SE	1360	1000	1.011	135.9	75	125	11/13/2024
Nickel		1.0		1080	1000	1.336	107.6	75	125	11/08/2024
Selenium		1.0		1050	1000	0	104.9	75	125	11/12/2024
Silver		1.0		94.9	100.0	0	94.9	75	125	11/12/2024
Thallium		2.0		513	500.0	0	102.6	75	125	11/08/2024
Vanadium		5.0		1110	1000	0	111.0	75	125	11/08/2024
Zinc		15.0		1050	1000	0	104.9	75	125	11/12/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	230586	SampType:	MSD	Units µg/L				RPD Limit 20			
SampID: 24101589-047CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic			1.0		1090	1000	0.5823	108.5	1090	0.42	11/12/2024
Barium			1.0		4420	4000	29.85	109.8	4504	1.84	11/15/2024
Beryllium			1.0		106	100.0	0	106.3	107.5	1.13	11/08/2024
Cadmium			1.0		105	100.0	0	105.3	108.3	2.78	11/12/2024
Chromium			1.5		415	400.0	0.7224	103.6	405.8	2.24	11/08/2024
Cobalt			1.0		862	1000	0.2332	86.2	836.1	3.03	11/08/2024
Copper			1.0		517	500.0	1.690	103.0	522.2	1.06	11/12/2024
Iron			25.0		4270	4000	125.9	103.5	4127	3.34	11/08/2024
Lead			1.0		1080	1000	0	108.5	1043	3.90	11/08/2024
Lithium		*	3.0		1110	1000	7.586	110.4	1108	0.25	11/08/2024
Manganese			2.0		1200	1000	99.94	110.4	1171	2.75	11/08/2024
Molybdenum			1.5	SE	1330	1000	1.011	132.5	1360	2.52	11/13/2024
Nickel			1.0		1170	1000	1.336	116.4	1077	7.87	11/08/2024
Selenium			1.0		1040	1000	0	103.8	1049	1.00	11/12/2024
Silver			1.0		93.6	100.0	0	93.6	94.91	1.39	11/12/2024
Thallium			2.0		528	500.0	0	105.5	512.9	2.84	11/08/2024
Vanadium			5.0		1140	1000	0	114.5	1110	3.05	11/08/2024
Zinc			15.0		1030	1000	0	103.3	1049	1.53	11/12/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	230588	SampType:	MBLK	Units µg/L							
SampID:		MBLK-230588									Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/08/2024	
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/11/2024	
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/08/2024	
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/08/2024	
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/08/2024	
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/08/2024	
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/08/2024	
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/08/2024	
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/08/2024	
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/05/2024	
Copper		1.0	S	2.1	0.2980	0	703.6	-100	100	11/04/2024	
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/08/2024	
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/08/2024	
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/04/2024	
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/08/2024	
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/08/2024	
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/08/2024	
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/08/2024	
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/04/2024	
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/08/2024	
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/08/2024	
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/08/2024	
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/08/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230588		SampType: LCS		Units µg/L							Date Analyzed
SampID: LCS-230588											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		3990	4000	0	99.8	80	120	11/08/2024	
Antimony		2.0		1000	1000	0	100.1	80	120	11/15/2024	
Arsenic		1.0		1020	1000	0	101.5	80	120	11/08/2024	
Barium		2.0		4420	4000	0	110.4	80	120	11/15/2024	
Beryllium		1.0		104	100.0	0	103.5	80	120	11/08/2024	
Boron		25.0		1040	1000	0	103.7	80	120	11/08/2024	
Cadmium		1.0		102	100.0	0	101.9	80	120	11/12/2024	
Cadmium		1.0	S	202	100.0	0	202.5	80	120	11/08/2024	
Chromium		1.5		415	400.0	0	103.8	80	120	11/08/2024	
Cobalt		1.0		865	1000	0	86.5	80	120	11/08/2024	
Copper		1.0	B	512	500.0	0	102.5	80	120	11/05/2024	
Iron		25.0		4140	4000	0	103.4	80	120	11/08/2024	
Lead		1.0		1050	1000	0	105.1	80	120	11/08/2024	
Lead		1.0		994	1000	0	99.4	80	120	11/05/2024	
Lithium	*	3.0		1070	1000	0	107.2	80	120	11/08/2024	
Manganese		2.0		1040	1000	0	104.0	80	120	11/08/2024	
Molybdenum		3.0		910	1000	0	91.0	80	120	11/15/2024	
Molybdenum		1.5	SE	1370	1000	0	137.4	80	120	11/08/2024	
Nickel		1.0		1130	1000	0	113.3	80	120	11/08/2024	
Selenium		1.0		1140	1000	0	114.4	80	120	11/05/2024	
Silver		1.0	S	129	100.0	0	128.9	80	120	11/08/2024	
Silver		1.0		92.3	100.0	0	92.3	80	120	11/12/2024	
Thallium		2.0		512	500.0	0	102.4	80	120	11/08/2024	
Vanadium		5.0		1110	1000	0	111.5	80	120	11/08/2024	
Zinc		15.0		973	1000	0	97.3	80	120	11/08/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230588		SampType: MS		Units µg/L							
SampleID: 24101589-097CMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		4140	4000	0	103.4	75	125	11/08/2024	
Antimony		1.0		1150	1000	0	114.6	75	125	11/15/2024	
Arsenic		1.0		1060	1000	0	105.6	75	125	11/08/2024	
Barium		1.0		4390	4000	73.35	107.8	75	125	11/15/2024	
Beryllium		1.0		110	100.0	0	109.9	75	125	11/08/2024	
Boron		25.0		1100	1000	0	109.8	75	125	11/08/2024	
Cadmium		1.0	S	141	100.0	0	141.2	75	125	11/08/2024	
Chromium		1.5		429	400.0	0	107.2	75	125	11/08/2024	
Cobalt		1.0		868	1000	0	86.8	75	125	11/08/2024	
Copper		1.0		515	500.0	1.224	102.8	75	125	11/08/2024	
Iron		25.0		4210	4000	37.24	104.3	75	125	11/08/2024	
Lead		1.0		1100	1000	0	110.0	75	125	11/08/2024	
Lithium	*	3.0		1130	1000	6.185	112.8	75	125	11/08/2024	
Manganese		2.0		1290	1000	163.1	113.0	75	125	11/08/2024	
Molybdenum		1.5	SE	1460	1000	0	145.6	75	125	11/08/2024	
Nickel		1.0		1110	1000	0.5775	110.6	75	125	11/08/2024	
Selenium		1.0		1010	1000	2.099	101.1	75	125	11/08/2024	
Silver		1.0	S	130	100.0	0	129.6	75	125	11/08/2024	
Thallium		2.0		538	500.0	0	107.5	75	125	11/08/2024	
Vanadium		5.0		1160	1000	0	116.2	75	125	11/08/2024	
Zinc		15.0		981	1000	0	98.1	75	125	11/08/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	230588	SampType:	MSD	Units µg/L				RPD Limit 20			
SampleID: 24101589-097CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum			25.0		4070	4000	0	101.9	4137	1.53	11/08/2024
Antimony			1.0		1180	1000	0	117.6	1146	2.60	11/15/2024
Arsenic			1.0		1070	1000	0	106.8	1056	1.13	11/08/2024
Barium			1.0		4450	4000	73.35	109.3	4386	1.39	11/15/2024
Beryllium			1.0		107	100.0	0	107.0	109.9	2.63	11/08/2024
Boron			25.0		1080	1000	0	107.7	1098	1.90	11/08/2024
Cadmium			1.0	S	146	100.0	0	145.6	141.2	3.09	11/08/2024
Chromium			1.5		424	400.0	0	106.1	428.7	1.00	11/08/2024
Cobalt			1.0		867	1000	0	86.7	867.7	0.09	11/08/2024
Copper			1.0		515	500.0	1.224	102.8	515.4	0.08	11/08/2024
Iron			25.0		4200	4000	37.24	104.0	4210	0.28	11/08/2024
Lead			1.0		1090	1000	0	108.8	1100	1.07	11/08/2024
Lithium		*	3.0		1110	1000	6.185	110.1	1134	2.39	11/08/2024
Manganese			2.0		1270	1000	163.1	110.9	1293	1.63	11/08/2024
Molybdenum			1.5	SE	1490	1000	0	148.6	1456	2.02	11/08/2024
Nickel			1.0		1180	1000	0.5775	118.3	1106	6.71	11/08/2024
Selenium			1.0		1030	1000	2.099	102.9	1013	1.75	11/08/2024
Silver			1.0	S	133	100.0	0	133.3	129.6	2.82	11/08/2024
Thallium			2.0		532	500.0	0	106.3	537.7	1.16	11/08/2024
Vanadium			5.0		1160	1000	0	116.1	1162	0.13	11/08/2024
Zinc			15.0		975	1000	0	97.5	981.4	0.68	11/08/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230732 SampType: MBLK Units µg/L

SampID: MBLK-230732

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/12/2024
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/07/2024
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/12/2024
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/11/2024
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/07/2024
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/12/2024
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/07/2024
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/12/2024
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/07/2024
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/12/2024
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/14/2024
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/12/2024
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/07/2024
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/12/2024
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/12/2024
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/07/2024
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/12/2024
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/07/2024
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/12/2024
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/07/2024
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/07/2024
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/07/2024
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/09/2024
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/12/2024
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/07/2024
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/14/2024
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/12/2024
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/07/2024
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/12/2024
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/07/2024
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/07/2024
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/09/2024
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/07/2024
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/12/2024
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/07/2024
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/07/2024



Quality Control Results

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Client: Ramboll

Client Project: COF-24Q4

Work Order: 24101589

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)										
Batch 230732		SampType: MBLK		Units µg/L						
SampID: MBLK-230732										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/12/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230732		SampType: LCS		Units µg/L							Date
SampID: LCS-230732											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Aluminum		25.0		3750	4000	0	93.9	80	120	11/12/2024	
Antimony		1.0		992	1000	0	99.2	80	120	11/12/2024	
Arsenic		1.0		1040	1000	0	104.4	80	120	11/07/2024	
Arsenic		1.0		943	1000	0	94.3	80	120	11/12/2024	
Barium		1.0		4390	4000	0	109.7	80	120	11/12/2024	
Barium		2.0		4700	4000	0	117.4	80	120	11/14/2024	
Beryllium		1.0		96.0	100.0	0	96.0	80	120	11/12/2024	
Beryllium		1.0		103	100.0	0	102.6	80	120	11/07/2024	
Boron		25.0		1040	1000	0	103.6	80	120	11/14/2024	
Boron		25.0		906	1000	0	90.6	80	120	11/12/2024	
Cadmium		1.0		95.3	100.0	0	95.3	80	120	11/12/2024	
Cadmium		1.0		108	100.0	0	108.4	80	120	11/07/2024	
Chromium		1.5		422	400.0	0	105.6	80	120	11/07/2024	
Chromium		1.5		388	400.0	0	97.1	80	120	11/12/2024	
Cobalt		1.0		816	1000	0	81.6	80	120	11/12/2024	
Cobalt		1.0		1010	1000	0	101.1	80	120	11/07/2024	
Copper		1.0		481	500.0	0	96.2	80	120	11/12/2024	
Copper		1.0		508	500.0	0	101.6	80	120	11/07/2024	
Iron		25.0		3890	4000	0	97.3	80	120	11/07/2024	
Lead		1.0		1070	1000	0	107.0	80	120	11/07/2024	
Lead		1.0		1030	1000	0	102.8	80	120	11/09/2024	
Lithium	*	3.0		974	1000	0	97.4	80	120	11/12/2024	
Lithium	*	3.0		986	1000	0	98.6	80	120	11/20/2024	
Manganese		2.0		1010	1000	0	100.8	80	120	11/07/2024	
Molybdenum		1.5		1190	1000	0	118.6	80	120	11/14/2024	
Nickel		1.0		1020	1000	0	102.1	80	120	11/07/2024	
Nickel		1.0		956	1000	0	95.6	80	120	11/12/2024	
Selenium		1.0		934	1000	0	93.4	80	120	11/12/2024	
Selenium		1.0		1010	1000	0	100.8	80	120	11/07/2024	
Silver		1.0		107	100.0	0	107.1	80	120	11/07/2024	
Thallium		2.0		493	500.0	0	98.5	80	120	11/09/2024	
Thallium		2.0		518	500.0	0	103.6	80	120	11/07/2024	
Vanadium		5.0		1030	1000	0	102.6	80	120	11/12/2024	
Vanadium		5.0		999	1000	0	99.9	80	120	11/07/2024	
Zinc		15.0		946	1000	0	94.6	80	120	11/12/2024	
Zinc		15.0		961	1000	0	96.1	80	120	11/07/2024	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230732 SampType: LCS Units µg/L

SampID: LCS-230732

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed

Batch 230734 SampType: MBLK Units µg/L

SampID: MBLK-230734

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/11/2024
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/06/2024
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/06/2024
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/06/2024
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/08/2024
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/06/2024
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/06/2024
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/06/2024
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/06/2024
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/06/2024
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/08/2024
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/06/2024
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/06/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch	230734	SampType:	LCS	Units µg/L							
SampleID:		LCS-230734									Date
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Antimony			1.0		1120	1000	0	112.3	80	120	11/11/2024
Antimony			1.0	SE	1440	1000	0	144.0	80	120	11/15/2024
Arsenic			1.0		1090	1000	0	109.4	80	120	11/07/2024
Barium			1.0		4750	4000	0	118.7	80	120	11/13/2024
Beryllium			1.0		106	100.0	0	105.7	80	120	11/07/2024
Boron			25.0		1040	1000	0	104.0	80	120	11/08/2024
Cadmium			1.0	S	148	100.0	0	147.9	80	120	11/08/2024
Cadmium			1.0		81.5	100.0	0	81.5	80	120	11/12/2024
Chromium			1.5		427	400.0	0	106.8	80	120	11/07/2024
Cobalt			1.0		1060	1000	0	106.0	80	120	11/07/2024
Lead			1.0		1040	1000	0	103.6	80	120	11/07/2024
Lithium	*		3.0		1070	1000	0	106.6	80	120	11/08/2024
Molybdenum			1.5		1170	1000	0	117.0	80	120	11/13/2024
Molybdenum			1.5	SE	1500	1000	0	149.6	80	120	11/08/2024
Nickel			1.0		856	1000	0	85.6	80	120	11/12/2024
Selenium			1.0		1060	1000	0	105.7	80	120	11/07/2024
Thallium			2.0		510	500.0	0	102.0	80	120	11/07/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230877 SampType: MBLK Units µg/L

SampleID: MBLK-230877

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/14/2024
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/16/2024
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/14/2024
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/14/2024
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/14/2024
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/14/2024
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/14/2024
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/14/2024
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/14/2024
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/14/2024
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/14/2024
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/16/2024
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/14/2024
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/14/2024
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/14/2024
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/14/2024
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/19/2024
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/14/2024
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/14/2024
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/19/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230877		SampType: LCS		Units µg/L							Date Analyzed
SampleID: LCS-230877											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Aluminum		25.0		4440	4000	0	111.0	80	120	11/14/2024	
Antimony		2.0		1100	1000	0	109.6	80	120	11/16/2024	
Arsenic		1.0		1080	1000	0	108.0	80	120	11/14/2024	
Barium		2.0		4420	4000	0	110.4	80	120	11/19/2024	
Beryllium		1.0		114	100.0	0	114.0	80	120	11/14/2024	
Boron		25.0		1100	1000	0	109.8	80	120	11/14/2024	
Cadmium		1.0		107	100.0	0	107.3	80	120	11/14/2024	
Chromium		1.5		458	400.0	0	114.5	80	120	11/14/2024	
Cobalt		1.0		863	1000	0	86.3	80	120	11/14/2024	
Copper		1.0		544	500.0	0	108.7	80	120	11/14/2024	
Iron		25.0		4360	4000	0	109.1	80	120	11/14/2024	
Lead		2.0		1090	1000	0	108.8	80	120	11/16/2024	
Lithium	*	3.0		1170	1000	0	116.5	80	120	11/14/2024	
Molybdenum		3.0		1070	1000	0	106.7	80	120	11/19/2024	
Molybdenum		1.5	SE	1250	1000	0	125.0	80	120	11/14/2024	
Nickel		1.0		1090	1000	0	109.1	80	120	11/14/2024	
Selenium		1.0		1050	1000	0	105.5	80	120	11/14/2024	
Silver		2.0		112	100.0	0	111.8	80	120	11/19/2024	
Thallium		2.0		536	500.0	0	107.3	80	120	11/14/2024	
Vanadium		5.0		1130	1000	0	113.3	80	120	11/14/2024	
Zinc		30.0		1110	1000	0	111.0	80	120	11/19/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230949 SampType: MBLK Units µg/L

SampleID: MBLK-230949

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/14/2024
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/16/2024
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	11/14/2024
Barium		1.0		< 1.0	0.7000	0	0	-100	100	11/14/2024
Beryllium		1.0		< 1.0	0.2500	0	0	-100	100	11/14/2024
Boron		25.0		< 25.0	9.250	0	0	-100	100	11/14/2024
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	11/14/2024
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	11/14/2024
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	11/14/2024
Copper		1.0		< 1.0	0.2980	0	0	-100	100	11/14/2024
Iron		25.0		< 25.0	11.50	0	0	-100	100	11/14/2024
Lead		1.0		< 1.0	0.6000	0	0	-100	100	11/16/2024
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	11/14/2024
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	11/14/2024
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	11/14/2024
Nickel		1.0		< 1.0	0.4300	0	0	-100	100	11/14/2024
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	11/14/2024
Silver		1.0		< 1.0	0.1110	0	0	-100	100	11/19/2024
Thallium		2.0		< 2.0	0.9500	0	0	-100	100	11/14/2024
Tin	*	5.0		< 5.0	0.5000	0	0	-100	100	11/14/2024
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	11/14/2024
Zinc		15.0		< 15.0	5.900	0	0	-100	100	11/19/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230949		SampType: LCS		Units µg/L							Date Analyzed	
SampID: LCS-230949												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Aluminum		25.0		4230	4000	0	105.8	80	120	11/14/2024		
Antimony		2.0		1080	1000	0	107.5	80	120	11/16/2024		
Arsenic		1.0		1070	1000	0	107.1	80	120	11/14/2024		
Barium		2.0		4600	4000	0	115.1	80	120	11/19/2024		
Beryllium		1.0		107	100.0	0	106.6	80	120	11/14/2024		
Boron		25.0		1030	1000	0	102.9	80	120	11/14/2024		
Cadmium		1.0		107	100.0	0	106.6	80	120	11/14/2024		
Chromium		1.5		447	400.0	0	111.7	80	120	11/14/2024		
Cobalt		1.0		856	1000	0	85.6	80	120	11/14/2024		
Copper		1.0		538	500.0	0	107.6	80	120	11/14/2024		
Iron		25.0		4290	4000	0	107.3	80	120	11/14/2024		
Lead		2.0		1070	1000	0	107.2	80	120	11/16/2024		
Lithium	*	3.0		1070	1000	0	107.4	80	120	11/14/2024		
Manganese		2.0		1070	1000	0	106.7	80	120	11/14/2024		
Molybdenum		1.5	SE	1250	1000	0	125.2	80	120	11/14/2024		
Molybdenum		3.0		1060	1000	0	106.4	80	120	11/16/2024		
Nickel		1.0		1070	1000	0	107.5	80	120	11/14/2024		
Selenium		1.0		1040	1000	0	104.4	80	120	11/14/2024		
Silver		2.0		115	100.0	0	115.1	80	120	11/19/2024		
Thallium		2.0		508	500.0	0	101.5	80	120	11/14/2024		
Tin	*	10.0		1020	1000	0	102.1	80	120	11/16/2024		
Vanadium		5.0		1090	1000	0	108.9	80	120	11/14/2024		
Zinc		30.0		1090	1000	0	108.8	80	120	11/19/2024		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 230949 SampType: MS Units µg/L

SampID: 24101589-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		1210	1000	1.582	121.0	75	125	11/16/2024
Arsenic		1.0		997	1000	0	99.7	75	125	11/14/2024
Barium		1.0		4860	4000	78.67	119.5	75	125	11/19/2024
Beryllium		1.0		105	100.0	0	104.8	75	125	11/14/2024
Boron		25.0		2050	1000	1024	102.5	75	125	11/14/2024
Cadmium		1.0		97.6	100.0	0	97.6	75	125	11/14/2024
Chromium		1.5		415	400.0	0	103.8	75	125	11/14/2024
Cobalt		1.0		798	1000	0.1965	79.8	75	125	11/14/2024
Lead		1.0		1070	1000	0	107.5	75	125	11/16/2024
Lithium	*	3.0		1070	1000	9.200	105.8	75	125	11/14/2024
Molybdenum		1.5		1170	1000	5.849	116.2	75	125	11/19/2024
Selenium		1.0		966	1000	0	96.6	75	125	11/14/2024
Thallium		2.0		491	500.0	0	98.2	75	125	11/14/2024

Batch 230949 SampType: MSD Units µg/L

RPD Limit 20

SampID: 24101589-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		1210	1000	1.582	120.5	1212	0.46	11/16/2024
Arsenic		1.0		1010	1000	0	100.7	996.7	1.02	11/14/2024
Barium		1.0		4780	4000	78.67	117.6	4858	1.59	11/19/2024
Beryllium		1.0		107	100.0	0	107.2	104.8	2.18	11/14/2024
Boron		25.0		2000	1000	1024	98.0	2049	2.19	11/14/2024
Cadmium		1.0		98.9	100.0	0	98.9	97.62	1.30	11/14/2024
Chromium		1.5		421	400.0	0	105.2	415.2	1.31	11/14/2024
Cobalt		1.0		811	1000	0.1965	81.1	798.5	1.61	11/14/2024
Lead		1.0		1070	1000	0	106.8	1075	0.66	11/16/2024
Lithium	*	3.0		1060	1000	9.200	104.8	1067	0.92	11/14/2024
Molybdenum		1.5		1140	1000	5.849	113.3	1168	2.57	11/19/2024
Selenium		1.0		965	1000	0	96.5	965.9	0.08	11/14/2024
Thallium		2.0		490	500.0	0	97.9	491.0	0.26	11/14/2024

Batch 231194 SampType: MBLK Units µg/L

SampID: MBLK-231194

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	11/20/2024
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	11/16/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 231194		SampType: LCS		Units µg/L							
SampID: LCS-231194											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		50.0		4070	4000	0	101.7	80	120	11/20/2024	
Antimony		2.0		1060	1000	0	105.7	80	120	11/16/2024	

Batch 231194		SampType: MS		Units µg/L							
SampID: 24101589-047CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		25.0		4220	4000	79.13	103.4	75	125	11/20/2024	
Antimony		1.0		1240	1000	0	123.7	75	125	11/20/2024	

Batch 231194		SampType: MSD		Units µg/L					RPD Limit 20		
SampID: 24101589-047CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum			25.0		4240	4000	79.13	104.0	4216	0.53	11/20/2024
Antimony			1.0	SE	1290	1000	0	129.0	1237	4.21	11/20/2024

Batch 232040		SampType: MBLK		Units µg/L							
SampID: MBLK-232040											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Aluminum		25.0		< 25.0	12.50	0	0	-100	100	12/10/2024	
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	12/10/2024	
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	12/11/2024	
Boron		25.0		< 25.0	9.250	0	0	-100	100	12/10/2024	
Boron		25.0		< 25.0	9.250	0	0	-100	100	12/11/2024	
Cobalt		1.0		< 1.0	0.1150	0	0	-100	100	12/10/2024	
Lead		1.0	S	443	0.6000	0	73810	-100	100	12/11/2024	
Lead		1.0	S	408	0.6000	0	68040	-100	100	12/10/2024	
Lithium	*	3.0		< 3.0	1.450	0	0	-100	100	12/10/2024	
Molybdenum		1.5		< 1.5	0.6000	0	0	-100	100	12/10/2024	
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	12/11/2024	
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	12/10/2024	
Silver		1.0		< 1.0	0.1110	0	0	-100	100	12/11/2024	
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	12/10/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 232040 SampType: LCS Units µg/L

SampID: LCS-232040

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		25.0		3800	4000	0	95.1	80	120	12/10/2024
Antimony		1.0		1030	1000	0	103.2	80	120	12/10/2024
Arsenic		1.0		1070	1000	0	107.3	80	120	12/11/2024
Barium		2.0	B	3800	4000	0	94.9	80	120	12/13/2024
Boron		25.0		973	1000	0	97.3	80	120	12/10/2024
Boron		25.0		1010	1000	0	100.5	80	120	12/11/2024
Cobalt		1.0		994	1000	0	99.4	80	120	12/10/2024
Lead		1.0	B	1000	1000	0	100.5	80	120	12/10/2024
Lead		1.0	B	1120	1000	0	111.7	80	120	12/11/2024
Lithium	*	3.0		927	1000	0	92.7	80	120	12/10/2024
Molybdenum		1.5		997	1000	0	99.7	80	120	12/10/2024
Selenium		1.0		1010	1000	0	100.6	80	120	12/10/2024
Selenium		1.0		1070	1000	0	107.3	80	120	12/11/2024
Silver		1.0		109	100.0	0	109.3	80	120	12/11/2024
Vanadium		5.0		978	1000	0	97.8	80	120	12/10/2024

Batch 232040 SampType: MS Units µg/L

SampID: 24101589-027CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Selenium		1.0		1070	1000	0	106.6	75	125	12/11/2024

Batch 232040 SampType: MSD Units µg/L

RPD Limit 20

SampID: 24101589-027CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Selenium		1.0		1090	1000	0	108.6	1066	1.81	12/11/2024

Batch 232040 SampType: MS Units µg/L

SampID: 24101589-047CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		25.0		983	1000	34.53	94.8	75	125	12/11/2024

Batch 232040 SampType: MSD Units µg/L

RPD Limit 20

SampID: 24101589-047CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		25.0		1060	1000	34.53	102.2	982.9	7.24	12/11/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 7470A (DISSOLVED)

Batch 230733		SampType: MS		Units µg/L							
SampID: 24101589-018CMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.20		4.92	5.000	0	98.5	75	125	11/06/2024	

Batch 230733		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-018CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.95	5.000	0	99.0	4.924	0.52	11/06/2024

Batch 230876		SampType: MS		Units µg/L							
SampID: 24110556-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.67	5.000	0	93.4	75	125	11/11/2024	

Batch 230876		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24110556-001CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.62	5.000	0	92.4	4.668	1.00	11/11/2024

Batch 230944		SampType: MS		Units µg/L							
SampID: 24102205-005CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		8.21	10.00	0	82.1	75	125	11/12/2024	

Batch 230944		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24102205-005CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		7.85	10.00	0	78.5	8.208	4.43	11/12/2024

SW-846 7470A (TOTAL)

Batch 230159		SampType: MBLK		Units µg/L							
SampID: MBLK-230159											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury			0.20		< 0.20	0.0550	0	0	-100	100	11/11/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 7470A (TOTAL)

Batch 230159		SampType: LCS		Units µg/L							
SampID: LCS-230159											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.20		4.47	5.000	0	89.4	85	115	11/11/2024	

Batch 230159		SampType: MS		Units µg/L							
SampID: 24101589-063BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.34	5.000	0	86.8	75	125	11/11/2024	

Batch 230159		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-063BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.13	5.000	0	82.6	4.338	4.85	11/11/2024

Batch 230470		SampType: MBLK		Units µg/L								
SampID: MBLK-230470												Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury			0.20		< 0.20	0.0550	0	0	-100	100	10/31/2024	

Batch 230470		SampType: LCS		Units µg/L								
SampID: LCS-230470												Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury			0.20		4.45	5.000	0	89.0	85	115	10/31/2024	

Batch 230470		SampType: MS		Units µg/L							
SampID: 24101589-027CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.67	5.000	0	93.4	75	125	10/31/2024	

Batch 230470		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-027CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.20		4.56	5.000	0	91.1	4.669	2.44	10/31/2024	

Batch 230504		SampType: MBLK		Units µg/L							
SampID: MBLK-230504											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury			0.20		< 0.20	0.0550	0	0	-100	100	11/01/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 7470A (TOTAL)

Batch 230504		SampType: LCS		Units µg/L							
SampID: LCS-230504											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.82	5.000	0	96.4	85	115	11/01/2024	

Batch 230504		SampType: MS		Units µg/L							
SampID: 24101589-044CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.73	5.000	0	94.6	75	125	11/01/2024	

Batch 230504		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-044CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.68	5.000	0	93.6	4.729	1.03	11/01/2024

Batch 230504		SampType: MS		Units µg/L							
SampID: 24101589-059BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.78	5.000	0	95.7	75	125	11/01/2024	

Batch 230504		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-059BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.75	5.000	0	95.1	4.785	0.65	11/01/2024

Batch 230505		SampType: MBLK		Units µg/L								Date Analyzed
SampID: MBLK-230505												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/01/2024		

Batch 230505		SampType: LCS		Units µg/L							
SampID: LCS-230505											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.82	5.000	0	96.4	85	115	11/01/2024	

Batch 230505		SampType: MS		Units µg/L							
SampID: 24101589-043BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.88	5.000	0	97.6	75	125	11/01/2024	



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 7470A (TOTAL)

Batch 230505		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-043BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.98	5.000	0	99.6	4.880	2.00	11/01/2024

Batch 230505		SampType: MS		Units µg/L							
SampID: 24101589-048CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.66	5.000	0	93.1	75	125	11/01/2024	

Batch 230505		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-048CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.60	5.000	0	91.9	4.655	1.26	11/01/2024

Batch 230598		SampType: MBLK		Units µg/L							
SampID: MBLK-230598											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury			0.20		< 0.20	0.0550	0	0	-100	100	11/04/2024

Batch 230598		SampType: LCS		Units µg/L							
SampID: LCS-230598											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury			0.20		4.67	5.000	0	93.4	85	115	11/04/2024

Batch 230598		SampType: MS		Units µg/L							
SampID: 24101589-055CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.75	5.000	0	94.9	75	125	11/04/2024	

Batch 230598		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-055CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.73	5.000	0	94.5	4.746	0.43	11/04/2024

Batch 230598		SampType: MS		Units µg/L							
SampID: 24101589-097CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.69	5.000	0	93.8	75	125	11/04/2024	



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 7470A (TOTAL)

Batch 230598		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-097CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.65	5.000	0	93.0	4.688	0.80	11/04/2024

Batch 230599		SampType: MBLK		Units µg/L							
SampID: MBLK-230599											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/04/2024	

Batch 230599		SampType: LCS		Units µg/L							
SampID: LCS-230599											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury			0.20		4.50	5.000	0	89.9	85	115	11/04/2024

Batch 230599		SampType: MS		Units µg/L							
SampID: 24101589-028CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.51	5.000	0	90.1	75	125	11/04/2024	

Batch 230599		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-028CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.36	5.000	0	87.2	4.506	3.34	11/04/2024

Batch 230599		SampType: MS		Units µg/L							
SampID: 24101589-029BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.48	5.000	0	89.6	75	125	11/04/2024	

Batch 230599		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-029BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.33	5.000	0	86.7	4.478	3.28	11/04/2024

Batch 230607		SampType: MBLK		Units µg/L							
SampID: MBLK-230607											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/04/2024	



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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 7470A (TOTAL)

Batch 230607		SampType: LCS		Units µg/L							
SampID: LCS-230607											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.20		4.70	5.000	0	94.0	85	115	11/04/2024	

Batch 230607		SampType: MS		Units µg/L							
SampID: 24101589-039CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20	S	3.45	5.000	0	69.0	75	125	11/04/2024	

Batch 230607		SampType: MSD		Units µg/L					RPD Limit 15			Date Analyzed
SampID: 24101589-039CMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Mercury			0.20	S	3.54	5.000	0	70.8	3.448	2.67	11/04/2024	

Batch 230607		SampType: MS		Units µg/L							
SampID: 24101589-040CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.15	5.000	0	83.0	75	125	11/04/2024	

Batch 230607		SampType: MSD		Units µg/L				RPD Limit 15				Date Analyzed
SampID: 24101589-040CMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Mercury			0.20		4.20	5.000	0	84.1	4.149	1.31	11/04/2024	

Batch 230725		SampType: MBLK		Units µg/L							
SampID: MBLK-230725											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/06/2024	

Batch 230725		SampType: LCS		Units µg/L							
SampID: LCS-230725											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.85	5.000	0	96.9	85	115	11/06/2024	

Batch 230733		SampType: MBLK		Units µg/L							
SampID: MBLK-230733											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/06/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 7470A (TOTAL)

Batch 230733		SampType: LCS		Units µg/L							
SampID: LCS-230733											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.20		4.99	5.000	0	99.8	85	115	11/06/2024	

Batch 230733		SampType: MS		Units µg/L							
SampID: 24101589-081CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.86	5.000	0	97.2	75	125	11/06/2024	

Batch 230733		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-081CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.78	5.000	0	95.7	4.861	1.58	11/06/2024

Batch 230876		SampType: MBLK		Units µg/L							
SampID: MBLK-230876											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/11/2024	

Batch 230876		SampType: LCS		Units µg/L								
SampID: LCS-230876												Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury			0.20		4.44	5.000	0	88.8	85	115	11/11/2024	

Batch 230876		SampType: MS		Units µg/L							
SampID: 24101589-088CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.69	5.000	0	93.7	75	125	11/11/2024	

Batch 230876		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-088CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.75	5.000	0	95.0	4.687	1.38	11/11/2024

Batch 230944		SampType: MBLK		Units µg/L							
SampID: MBLK-230944											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury			0.20		< 0.20	0.0550	0	0	-100	100	11/12/2024



Quality Control Results

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Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

SW-846 7470A (TOTAL)

Batch 230944		SampType: LCS		Units µg/L							
SampID: LCS-230944											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.63	5.000	0	92.7	85	115	11/12/2024	

Batch 230944		SampType: MS		Units µg/L							
SampID: 24101589-085BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20	S	0.76	5.000	0	15.2	75	125	11/12/2024	

Batch 230944		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-085BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20	S	0.86	5.000	0	17.1	0.7606	11.74	11/12/2024

Batch 230946		SampType: MBLK		Units µg/L							
SampID: MBLK-230946											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		< 0.20	0.0550	0	0	-100	100	11/12/2024	

Batch 230946		SampType: LCS		Units µg/L							
SampID: LCS-230946											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.69	5.000	0	93.7	85	115	11/12/2024	

Batch 230946		SampType: MS		Units µg/L							
SampID: 24101589-099BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		4.57	5.000	0	91.4	75	125	11/12/2024	

Batch 230946		SampType: MSD		Units µg/L				RPD Limit 15			
SampID: 24101589-099BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.20		4.49	5.000	0	89.7	4.571	1.87	11/12/2024

Batch 230946		SampType: MS		Units µg/L							
SampID: 24110710-001GMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.20		9.54	10.00	0.1303	94.1	75	125	11/13/2024	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101589
Report Date: 19-Dec-24

SW-846 7470A (TOTAL)										
Batch 230946		SampType: MSD		Units µg/L		RPD Limit 15				
SampID: 24110710-001GMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.20		9.50	10.00	0.1303	93.7	9.539	0.42	11/13/2024



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101589

Client Project: COF-24Q4

Report Date: 19-Dec-24

Carrier: Justin Colp

Received By: AMD

Completed by:

On:

29-Oct-24

Amber Dilallo

Reviewed by:

On:

12-Nov-24

Ellie Hopkins

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	Temp °C 14.9
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.

Samples were received on 10/29/24 at 1600 on ice [14.9C - LTG#5]. Cooler #1 14.9c. Cooler #2 12.1. Additional Nitric Acid (99964) was needed upon arrival at the laboratory. pH strip #96651. - amberdilallo - 10/29/2024 4:36:28 PM

Samples were received on 10/30/24 at 16.20 on ice [Cooler 1 = 8.1C, Cooler 2 = 9.1C, Cooler 3 = 14.1C, Cooler 4 = 16.7C - LTG10]. Additional nitric acid (99964) was needed in G275 and G275D upon arrival at the laboratory. Additional sodium hydroxide (99725) was needed in G153 upon arrival at the laboratory. pH strip# 96651/98858. G220 was collected on 10/30/24 not 10/24/24 per Justin Colp. - NR/lhenson - 10/30/2024 5:20:13 PM

Samples were received on 10/31/24 at 16.00 on ice [12.5C - LTG#9]. Ph strip #96651/98858. G220 received on 10/31/24. Date/time is for G213 per Brett Gillihan. AD 11/1/24 - lhenson - 11/1/2024 8:35:30 AM

Samples were received on 11/4/24 at 1550 on ice [3.3C - LTG#]. Additional Sodium Hydroxide (99725) was needed upon arrival at the laboratory for G276 and G407. Additional Nitric Acid (99964) was needed upon arrival at the laboratory for G314D and G316. pH strip #96651/98858. Cooler #1 3.3C. Cooler #2 3.5C. Cooler #4 3.5C. Cooler #4 2.1C. - JD/amberdilallo - 11/5/2024 9:07:39 AM

Samples were received on 11/06 at 15.45 on ice temp Cooler #1 4.1C, Cooler #2 3.7C, Cooler #3 5.7C - LTG9]. Ph strip #96651/98858. Additional nitric acid (99964) was needed upon arrival at the laboratory for G312, G314, G401. Additional sodium hydroxide (99725) was needed upon arrival at the laboratory for G401. - JD/lhenson - 11/7/2024 10:22:37 AM

Samples were received on 11/7/24 at 1533 on ice [5.5C - LTG#5]. pH strip #96651/98858. X201 was filtered and preserved with Nitric Acid (99964) for the dissolved parameters upon arrival at the laboratory. Field Blank was filtered unpreserved and preserved with Nitric Acid (99964) and Sulfuric Acid (100658) for the dissolved parameters upon arrival at the laboratory. Field Blank Fecal Coliform ran out of hold time due to lab error. - amberdilallo - 11/8/2024 9:15:43 AM

24101589

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:		Page: 1 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:			
Phone: (217) 753-8911		Project Name: COF 2024 GW		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:			

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 WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								V/N	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.			
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		↓ Analysis Test ↓	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)				
1	AP2D		WT	G				3	1	2																										24101589-001	
2	G1001		WT	G				2	1	1																										24101589-002	
3	G1003		WT	G				2	1	1																										24101589-003	
4	G101		WT	G				5	2	1	1		1																							24101589-004	
5	G102		WT	G				7	2	2	2		1																							X	24101589-005
6	G103		WT	G				7	2	2	2		1																							X	24101589-006
7	G105		WT	G				7	2	2	2		1																							X	24101589-007
8	G106		WT	G				7	2	2	2		1																							X	24101589-008
9	G107		WT	G				5	2	1	1		1																								24101589-009
10	G108		WT	G		10-29-24	0944	5	2	1	1		1																								24101589-010
11	G109		WT	G			1005	5	2	1	1		1																								24101589-011
12	G110		WT	G			1033	5	2	1	1		1																								24101589-012
13	G111		WT	G			1056	5	2	1	1		1																								24101589-013
14	G119		WT	G			1247	5	2	1	1		1																								24101589-014
15	G120		WT	G			1308	5	2	1	1		1																								24101589-015
16	G121		WT	G			1330	5	2	1	1		1																								24101589-016
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																							
COF-24Q4 Rev 0		J. Gelp		10-29		1600		Union Oil Co		10/29/24		1600		149 #5																							

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS		
COF-24Q4 Rev 0		J. Gelp		10-29	1600	Sharon O'Leary		10/29/24	1600	14.9	>	Z
										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)
												Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE: John Gelp
 PRINT Name of SAMPLER: John Gelp
 SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 10-29-24

Added HNO3 (99964) to G2P5 & G200 Dup.
 pH ✓ 9.6657/9.8858
 Cooler #1 14.9C. Cooler #2 12.1
 10/29/24

24101589-101

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 2 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Quote Reference:			
Phone: (217) 753-8911		Purchase Order No.:		Project Name: COF 2024 GW		Site Location	
Fax:		Project Number: 1940106781-003		Project Manager:		STATE: IL	
Requested Due Date/TAT: 10 day				Profile #:			

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 WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N Analysis Test	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		J-Cob		10-29	1600	Justin Cob		10/29/24	1600	Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (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 Cob					
SIGNATURE of SAMPLER: [Signature]					
DATE Signed (MM/DD/YYYY): 10-29-24					

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Page: 3 of 7

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

Page: 4 of 7

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: John Gp					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY) 10-29-24				

24101589-101

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 6 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com Rich Speraneo: Rich.Speraneo@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES GROUND WATER DRINKING WATER	
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:		UST RCRA OTHER	
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:		Site Location STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)														Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)		
1	G407	WT	G				5	2	2	1																	24101589-081							
2	G410	WT	G				4	1	2	1																	24101589-082							
3	G411	WT	G				4	1	2	1																	24101589-083							
4	L201	WT	G				17	10	2	1	3	1															24101589-084							
5	NE Riser	WT	G				3	1	2																		24101589-085							
6	R104	WT	G				7	2	2	2	1																24101589-086							
7	R201	WT	G				6	2	1	2	1																24101589-087							
8	R205	WT	G				6	2	1	2	1																24101589-088							
9	SG-02	WT	G				0																				24101589-089							
10	SG-03	WT	G				0																				24101589-090							
11	T127	WT	G	10-29-24	1152		5	2	1	1	1																24101589-091							
12	T128	WT	G	10-29-24	1215		5	2	1	1	1																24101589-092							
13	X201	WT	G				3	1	2																		24101589-093							
14	XSG-01	WT	G				0																				24101589-094							
15	Field Blank	WT	G				20	13	2	1	3	1															24101589-095							
16	G102 Duplicate	WT	G				7	2	2	2	1																24101589-096							
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																						
COF-24Q4 Rev 0		J-Cop			10-29	1600	Mon O'Connell			10/29/24	1600	Y N																						

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Justin Cop		DATE Signed (MM/DD/YYYY): 10-29-24	
SIGNATURE of SAMPLER: <i>[Signature]</i>			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 7 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project			
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:			

ITEM #	Section D Required Client Information		Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes C=COMP)	SAMPLE TYPE (C=GRAB)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test I	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.	
	SAMPLE ID (A-Z, 0-9 / -)	Sample IDs MUST BE UNIQUE	WT	G			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)			
1	G200 Duplicate		WT	G	10-29-24	1253			6	2	1	2	1																							24101589-097	
2	G217 Duplicate		WT	G					6	2	1	2	1																							24101589-098	
3	G301 Duplicate		WT	G					2	1		1																								24101589-099	
4	R201 Duplicate		WT	G					6	2	1	2	1																							24101589-100	
5	Equipment Blank 1		WT	G					7	4	1	1	1																							24101589-101	
6	Equipment Blank 2		WT	G					7	4	1	1	1																							24101589-102	
7	Equipment Blank 3		WT	G					7	4	1	1	1																							24101589-103	
8																																					
9																																					
10																																					
11																																					
12																																					
13																																					
14																																					
15																																					
16																																					
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION					DATE		TIME		ACCEPTED BY / AFFILIATION					DATE		TIME		SAMPLE CONDITIONS														
COF-24Q4 Rev 0					J. Calo					10-29		1600		Sharon O'Leary					10/29/24		1600		> z														

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		J. Calp		10-29	1600	Justin Calp		10/29/24	1600	Y Z			
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 Calp													
SIGNATURE of SAMPLER: [Signature]													
DATE Signed (MM/DD/YYYY): 10-29-24													

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Quote Reference:			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPI)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.			
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102		COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	AP2D	WT	G					3	1	2								X						X								24101589-001	
2	G1001	WT	G					2	1	1								X						X								24101589-002	
3	G1003	WT	G					2	1	1								X						X								24101589-003	
4	G101	WT	G					5	2	1	1		1								X											24101589-004	
5	G102	WT	G					7	2	2	2		1								X									X		24101589-005	
6	G103	WT	G	10-30-24	1706			7	2	2	2		1								X									X		24101589-006	
7	G105	WT	G		1635			7	2	2	2		1								X									X		24101589-007	
8	G106	WT	G		1332			7	2	2	2		1								X									X		24101589-008	
9	G107	WT	G		1546			5	2	1	1		1								X											24101589-009	
10	G108	WT	G					5	2	1	1		1								X											24101589-010	
11	G109	WT	G					5	2	1	1		1								X											24101589-011	
12	G110	WT	G					5	2	1	1		1								X											24101589-012	
13	G111	WT	G					5	2	1	1		1								X											24101589-013	
14	G119	WT	G					5	2	1	1		1								X											24101589-014	
15	G120	WT	G					5	2	1	1		1								X											24101589-015	
16	G121	WT	G					5	2	1	1		1								X											24101589-016	
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION					DATE	TIME	SAMPLE CONDITIONS																
COF-24Q4 Rev 0					S. L. SD			10-30	1620	G. J. Davis					10/30/24	16:20	8.1					X											

G1220 was collected
on 10/30/24 not
10/24/24 per
Justin
10/30/24

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 L. Davis					
SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 10-30-24					

PH 96651/98858
Added HNO₃ (99964) to
G275, G275D. Added NaOH (99725)
to G153

Temp Cooler | 8.1
2 9.1
3 14.1
4 16.7

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Samples
intact (Y/N)

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Page: 3 of 4

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Gold					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 10-30-24				

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

Page: 4 7

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRAINING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N Analysis Test↓	Requested Analysis Filtered (Y/N)															
					DATE	TIME			Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G275		WT	G	10-30-24	1004		6	2	1	2		1								X		X		X								24101589-049
2	G275D		WT	G	10-30-24	942		3	1		2										X		X										24101589-050
3	G276		WT	G	10-30-24	914		6	2	1	2		1								X		X		X								24101589-051
4	G277		WT	G				6	2	1	2		1								X		X		X								24101589-052
5	G278		WT	G	10-30-24	1059		6	2	1	2		1													X							24101589-053
6	G279		WT	G	10-30-24	1121		6	2	1	2		1								X		X	X	X								24101589-054
7	G280		WT	G	10-30-24	1014		6	2	1	2		1							X		X		X	X	X							24101589-055
8	G281		WT	G	10-30-24	1425		5	2		2		1							X	X					X							24101589-056
9	G283		WT	G				3	1		2										X		X										24101589-057
10	G284		WT	G				3	1		2										X		X										24101589-058
11	G285		WT	G				3	1		2										X		X										24101589-059
12	G301		WT	G				2	1		1									X													24101589-060
13	G302		WT	G				2	1		1								X														24101589-061
14	G303		WT	G				2	1		1								X														24101589-062
15	G305		WT	G				2	1		1								X														24101589-063
16	G306		WT	G				2	1		1								X														24101589-064
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION							DATE	TIME	SAMPLE CONDITIONS																
COF-24Q4 Rev 0			[Signature]			10-30	1620	Jason Davis							10/30/24	1620	> z																

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: [Signature]	DATE Signed (MM/DD/YY): 10-30-24				

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

Invoice Information:

Page: 6 of 7

Company: Vistra Corp-Coffeen		Report To: Brian Voelker	Attention: Brian Voelker			
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp	REGULATORY AGENCY		
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		UST	RCRA	OTHER
Phone: (217) 753-8911	Fax:	Project Name: COF 2024 GW	Quote Reference:	Site Location		
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003	Project Manager:	STATE:		
			Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								[Analysis Test]	Requested Analysis Filtered (Y/N)																	Project No./ Lab I.D.	
					H ₂ SO ₄	HNO ₃					HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102	COF-257-103		COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)							
1	G407	WT	G						5	2	2	1				X																			24101589-081			
2	G410	WT	G						4	1	2	1																						24101589-082				
3	G411	WT	G						4	1	2	1																						24101589-083				
4	L201	WT	G						17	10	2	1	3	1																				24101589-084				
5	NE Riser	WT	G						3	1	2																							24101589-085				
6	R104	WT	G						7	2	2	2	1																					24101589-086				
7	R201	WT	G						6	2	1	2	1																					24101589-087				
8	R205	WT	G						6	2	1	2	1																					24101589-088				
9	SG-02	WT	G						0																									24101589-089				
10	SG-03	WT	G						0																									24101589-090				
11	T127	WT	G						5	2	1	1	1	1																				24101589-091				
12	T128	WT	G						5	2	1	1	1	1																				24101589-092				
13	X201	WT	G						3	1	2																							24101589-093				
14	XSG-01	WT	G						0																									24101589-094				
15	Field Blank	WT	G						20	13	2	1	3	1																				24101589-095				
16	G102 Duplicate	WT	G						7	2	2	2	1	1																				24101589-096				
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE			TIME			ACCEPTED BY / AFFILIATION			DATE			TIME			SAMPLE CONDITIONS																	
COF-24Q4 Rev 0			[Signature] SD			10-30			1620			[Signature] Denise			10/30/24			16:20			> z																	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>John Cobb</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YY): <i>10-30-24</i>				

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

Page: 7 of 7

Company: Vistra Corp-Coffeen		Report To: Brian Voelker	Attention: Brian Voelker			
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp	REGULATORY AGENCY		
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:	Quote	UST	RCRA	OTHER
Phone: (217) 753-8911	Fax:	Project Name: COF 2024 GW	Sub-Phase	Site Location	IL	
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003	Project			
			Profile #:	STATE:		

ITEM #	Section D Required Client Information		Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N Analysis Test I	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.						
	SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE		DW WT WW P SL OL WP AR OT TS	CORE			DATE	TIME			Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103			COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G200 Duplicate	WT	G				6	2	1	2	1							X																	24101589-097	
2	G217 Duplicate	WT	G				6	2	1	2	1							X																	24101589-098	
3	G301 Duplicate	WT	G				2	1		1								X			X														24101589-099	
4	R201 Duplicate	WT	G		10-30-84	1410	6	2	1	2	1										X														24101589-100	
5	Equipment Blank 1	WT	G				7	4	1	1	1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		24101589-101	
6	Equipment Blank 2	WT	G				7	4	1	1	1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		24101589-102	
7	Equipment Blank 3	WT	G				7	4	1	1	1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		24101589-103	
8																																				
9																																				
10																																				
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16																																				
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION				DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLE CONDITIONS																						
COF-24Q4 Rev 0		[Signature]				10-30	1622	[Signature]				10/30/84	16:20	y z																						

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Gelp					
SIGNATURE OF SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 10-30-74				

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:		Page: 1 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:			

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)		SAMPLE TYPE (G=GRAB C=COMPI)		COLLECTED		SAMPLE TEMP AT COLLECTION	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
								DATE	TIME		# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS				
COF-24Q4 Rev 0		[Signature]		10-31	1600	[Signature]		10/31/24	1600	12.5	>	z		
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Justin Corp SIGNATURE of SAMPLER: [Signature]										DATE Signed (MM/DD/YYYY): 10-31-24	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

PH 96651/98858

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Page: 2 of 7

ITEM #	Section D Required Client Information		Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.
	SAMPLE ID (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE		DRINKING WATER WATER WASTE WATER PRODUCT SOL/SOLID CL WPE AIR OTHER TISSUE	CW WT WW P SL OL WP AR OT TS			DATE	TIME			Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)		
1	G122		WT	G				5	2	1	1	1							X																24101589-017	
2	G123		WT	G				5	2	1	1	1							X																24101589-018	
3	G124		WT	G				5	2	1	1	1							X																24101589-019	
4	G125		WT	G				5	2	1	1	1							X																24101589-020	
5	G126		WT	G				5	2	1	1	1							X																24101589-021	
6	G151		WT	G				4	2		1	1																					X		24101589-022	
7	G152		WT	G				4	2		1	1																				X		24101589-023		
8	G153		WT	G				4	2		1	1																				X		24101589-024		
9	G154		WT	G				5	2		2	1															X				X			24101589-025		
10	G155		WT	G				4	2		1	1																			X			24101589-026		
11	G200		WT	G				6	2	1	2	1							X							X								24101589-027		
12	G206		WT	G	10-31-24	1412		6	2	1	2	1							X				X								X			24101589-028		
13	G206D		WT	G	10-31-24	1352		2	1		1								X				X											24101589-029		
14	G207		WT	G				6	2	1	2	1																			X			24101589-030		
15	G208		WT	G	10-31-24	1320		6	2	1	2	1																			X			24101589-031		
16	G209		WT	G	10-31-24	1309		6	2	1	2	1							X				X								X			24101589-032		

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Lisha Gop</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YY): <i>10-31-24</i>				

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Invoice Information:

Page: 3 of 7

G220 received 10/30/24.
Date/time for G213
per Brett Gillman. am 11/1/24

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Justin Cup SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YYYY): 10-31-27		Temp in °C Received on ice (Y/N) Cooled 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:		Page: 4 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Quote Reference:			
Phone: (217) 753-8911 Fax:		Purchase Order No.:		Project Manager:			
Requested Due Date/TAT: 10 day		Project Name: COF 2024 GW		Profile #:			
		Project Number: 1940106781-003					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL CL WPE WP AR AR OTHER OT TS TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test #	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
SAMPLE ID (A-Z, 0-9 / -)		Sample IDs MUST BE UNIQUE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
COF-24Q4 Rev 0		[Signature]		10-31	1600	[Signature]		10/31/24	1600	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: **Brett Gillihan**

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YYYY): **10-31-24**

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:		Page: 5 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com Rich Speraneo: Rich.Speraneo@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quota Reference:			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 1940108781-003		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)															Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)		
1	G307		WT	G				2	1		1																							24101589-065
2	G307D		WT	G				2	1		1																							24101589-066
3	G308		WT	G				2	1		1																							24101589-067
4	G310		WT	G				2	1		1																							24101589-068
5	G312		WT	G				2	1		1																							24101589-069
6	G313		WT	G				2	1		1																							24101589-070
7	G314		WT	G				2	1		1																							24101589-071
8	G314D		WT	G				2	1		1																							24101589-072
9	G315		WT	G				2	1		1																							24101589-073
10	G316		WT	G				2	1		1																							24101589-074
11	G401		WT	G				5	2		2		1																					24101589-075
12	G402		WT	G				5	2		2		1																					24101589-076
13	G403		WT	G				5	2		2		1																					24101589-077
14	G404		WT	G				5	2		2		1																					24101589-078
15	G405		WT	G				5	2		2		1																					24101589-079
16	G406		WT	G				5	2		2		1																					24101589-080

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		<i>[Signature]</i>		10-31	1600	<i>[Signature]</i>		10/31/24	1600				
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: NA													
SIGNATURE of SAMPLER: <i>[Signature]</i>													
DATE Signed (MM/DD/YYYY):													

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-Coffeen**
Address: **134 CIPS Lane**
Coffeen, IL 62017
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: **Sam Davies: samantha.davies@vistracorp.com**
Jason Grieve: Jason.Grieve@vistracorp.com
Rich Speraneo: Rich.Speraneo@vistracorp.com
Purchase Order No.:
Project Name: **COF 2024 GW**
Project Number: **1940106781-003**

Section C Invoice Information:

Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project Manager:
Profile #:

Page: **6** of **7**

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED		PRESERVATIVES		Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.									
ITEM #	SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test #	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.	
1	G407	WT	G				5	2	2	1								X														24101589-081	
2	G410	WT	G				4	1	2	1																						24101589-082	
3	G411	WT	G				4	1	2	1																						24101589-083	
4	L201	WT	G				17	10	2	1	3	1									X											24101589-084	
5	NE Riser	WT	G				3	1	2									X														24101589-085	
6	R104	WT	G				7	2	2	2	1										X											24101589-086	
7	R201	WT	G				8	2	1	2	1							X					X									24101589-087	
8	R205	WT	G				6	2	1	2	1																					24101589-088	
9	SG-02	WT	G				0										X	X				X	X									24101589-089	
10	SG-03	WT	G				0										X	X				X	X									24101589-090	
11	T127	WT	G				5	2	1	1	1										X											24101589-091	
12	T128	WT	G				5	2	1	1	1										X											24101589-092	
13	X201	WT	G				3	1	2											X					X		X					24101589-093	
14	XSG-01	WT	G				0										X					X										24101589-094	
15	Field Blank	WT	G				20	13	2	1	3	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24101589-095	
16	G102 Duplicate	WT	G	10-31-24	0954		7	2	2	2	1										X												24101589-096

SAMPLER NAME AND SIGNATURE		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
PRINT Name of SAMPLER: <i>Justin W</i>		10-31		1600		Union Ovalle		10/31/24		1600		Temp in °C	
SIGNATURE of SAMPLER: <i>Justin W</i>												Received on Ice (Y/N)	
												Custody Sealed Cooler (Y/N)	
												Samples Intact (Y/N)	

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:			
Phone: (217) 753-8911		Project Name: COF 2024 GW		Project Manager:		Site Location	
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:		STATE: IL	

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 SOL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.		
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)				
1	AP2D		WT	G				3	1	2																								24101589-001		
2	G1001		WT	G				2	1	1																								24101589-002		
3	G1003		WT	G				2	1	1																								24101589-003		
4	G101		WT	G				5	2	1	1		1																					24101589-004		
5	G102		WT	G				7	2	2	2		1																					24101589-005		
6	G103		WT	G				7	2	2	2		1																					24101589-006		
7	G105		WT	G				7	2	2	2		1																					24101589-007		
8	G106		WT	G				7	2	2	2		1																					24101589-008		
9	G107		WT	G				5	2	1	1		1																					24101589-009		
10	G108		WT	G				5	2	1	1		1																					24101589-010		
11	G109		WT	G				5	2	1	1		1																					24101589-011		
12	G110		WT	G				5	2	1	1		1																					24101589-012		
13	G111		WT	G				5	2	1	1		1																					24101589-013		
14	G119		WT	G				5	2	1	1		1																					24101589-014		
15	G120		WT	G				5	2	1	1		1																					24101589-015		
16	G121		WT	G				5	2	1	1		1																					24101589-016		
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION						DATE		TIME		SAMPLE CONDITIONS																
COF-24Q4 Rev 0			24150			11-4		1550		Jackie Davis						11-4-24		15:50		3.3 #5																

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		2410		11-4	1550	Jodie Davis		11-4	15:50	3.3			
										#5			

Cooler #1 3.3c
Cooler #2 3.5c LTA5
Cooler #3 3.5c
Cooler #4 2.1c
Urn 11/5/24

Added NaOH (99725) to Samples G276, G407
HNO3 (9964) to Samples G314D, G316
PH 96651, 98858

JD 11/5/24

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Page: 2 of 7

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: <i>Tracy Cangel</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YY): <i>7/14/74</i>				

24101589-01

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:		Page: 3 of 7	
Company: Vistra Corp-Coffeeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com Rich Speraneo: Rich.Speraneo@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		Site Location	
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:		STATE: IL	
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.		
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)						
SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		DRINKING WATER DW	WATER WT	WASTE WATER WW	PRODUCT P	SOLID/SOLID SL	OIL OL	WPE WP	AIR AR	OTHER OT	TISSUE TS																											
1	G210	WT	G					6	2	1	2	1																								24101589-033		
2	G211	WT	G					6	2	1	2	1																							24101589-034			
3	G212	WT	G					6	2	1	2	1								X															24101589-035			
4	G213	WT	G					6	2	1	2	1								X															24101589-036			
5	G214	WT	G					6	2	1	2	1																							24101589-037			
6	G215	WT	G					6	2	1	2	1																							24101589-038			
7	G216	WT	G					6	2	1	2	1																							24101589-039			
8	G217	WT	G					6	2	1	2	1								X															24101589-040			
9	G218	WT	G					6	2	1	2	1								X															24101589-041			
10	G219	WT	G					3	1		2																								24101589-042			
11	G220	WT	G					3	1		2																								24101589-043			
12	G270	WT	G					6	2	1	2	1								X															24101589-044			
13	G271	WT	G					6	2	1	2	1									X														24101589-045			
14	G272	WT	G					6	2	1	2	1										X													24101589-046			
15	G273	WT	G					6	2	1	2	1										X													24101589-047			
16	G274	WT	G					6	2	1	2	1																							24101589-048			
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION				DATE		TIME		ACCEPTED BY / AFFILIATION				DATE		TIME		SAMPLE CONDITIONS																				
COF-24Q4 Rev 0		27 SO				11-4		1550		Jasli Davis				11-424		15:50		> z																				

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS							
COF-24Q4 Rev 0		21 SO		11-4		15:50		Jodie Davis		11-424		15:50									
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: NA																					
SIGNATURE of SAMPLER: NA																					
														DATE Signed (MM/DD/YY):							

24101589-101

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 4 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Purchase Order No.:			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-MPCP-102	COF-MPCP-103-104	COF-MPCP-106	Residual Chlorine (Y/N)				
SAMPLE ID (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE		DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS																																		
1	G275	WT	G					6	2	1	2		1																	24101589-049						
2	G275D	WT	G					3	1		2																			24101589-050						
3	G276	WT	G	11/4/24				6	2	1	2		1																	24101589-051						
4	G277	WT	G					6	2	1	2		1																	24101589-052						
5	G278	WT	G					6	2	1	2		1																	24101589-053						
6	G279	WT	G					6	2	1	2		1																	24101589-054						
7	G280	WT	G					6	2	1	2		1																	24101589-055						
8	G281	WT	G					5	2		2		1																	24101589-056						
9	G283	WT	G					3	1		2																			24101589-057						
10	G284	WT	G					3	1		2																			24101589-058						
11	G285	WT	G					3	1		2																			24101589-059						
12	G301	WT	G					2	1		1																			24101589-060						
13	G302	WT	G					2	1		1																			24101589-061						
14	G303	WT	G					2	1		1																			24101589-062						
15	G305	WT	G					2	1		1																			24101589-063						
16	G306	WT	G	11-4-24				2	1		1																			24101589-064						
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION				DATE		TIME		SAMPLE CONDITIONS																			
COF-24Q4 Rev 0		21 SO			11-4		1550		Justin Davis				11/4/24		15:50																					

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Justin Gop		DATE Signed (MM/DD/YY): 11-4-24	
SIGNATURE of SAMPLER: <i>Justin Gop</i>			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

24101589

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-Coffeen**
Address: **134 CIPS Lane**
Coffeen, IL 62017
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: **Sam Davies: samantha.davies@vistracorp.com**
Jason Grieve: Jason.Grieve@vistracorp.com
Rich Speraneo: Rich.Speraneo@vistracorp.com
Purchase Order No.:
Project Name: **COF 2024 GW**
Project Number: **1940106781-003**

Section C Invoice Information:

Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project Manager:
Profile #:

Page: **5** of **7**

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED		PRESERVATIVES		Requested Analysis Filtered (Y/N)														Project No./ Lab I.D.							
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE	CODE	DATE	TIME	UNPRESERVED	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G307	WT	G	11-4-24	1119	2	1	1						X					X										24101589-065
2	G307D	WT	G	11-4-24	1056	2	1	1						X					X										24101589-066
3	G308	WT	G	11-4-24	1156	2	1	1						X					X										24101589-067
4	G310	WT	G			2	1	1						X					X										24101589-068
5	G312	WT	G			2	1	1						X					X										24101589-069
6	G313	WT	G			2	1	1						X					X										24101589-070
7	G314	WT	G			2	1	1						X					X										24101589-071
8	G314D	WT	G	11-4-24	1350	2	1	1						X					X										24101589-072
9	G315	WT	G	11-4-24	1316	2	1	1						X					X										24101589-073
10	G316	WT	G	11-4-24	1236	2	1	1						X					X										24101589-074
11	G401	WT	G			5	2	2	1						X					X									24101589-075
12	G402	WT	G	11-4-24	1157	5	2	2	1						X					X									24101589-076
13	G403	WT	G		1106	5	2	2	1						X					X									24101589-077
14	G404	WT	G		1040	5	2	2	1						X					X									24101589-078
15	G405	WT	G		1021	5	2	2	1						X					X									24101589-079
16	G406	WT	G		1746	5	2	2	1						X					X									24101589-080

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Justin Gop**

SIGNATURE of SAMPLER: **[Signature]**

DATE Signed (MM/DD/YY): **11-4-24**

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

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

Page: 6 of 7

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Controlled Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Lopez					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 7-7-23				

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:		Page: 7 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project:			
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:			

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 SOLID SL OIL OL WPE WP AR AR OTHER OT TSSUE TS	MATRIX CODE (see valid codes)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test #	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)		
1	G200 Duplicate	WT	G					6	2	1	2	1																						24101589-097
2	G217 Duplicate	WT	G					6	2	1	2	1																						24101589-098
3	G301 Duplicate	WT	G					2	1		1																							24101589-099
4	R201 Duplicate	WT	G					6	2	1	2	1																						24101589-100
5	Equipment Blank 1	WT	G					7	4	1	1	1	1																					24101589-101
6	Equipment Blank 2	WT	G					7	4	1	1	1	1																					24101589-102
7	Equipment Blank 3	WT	G					7	4	1	1	1	1																					24101589-103
8																																		
9																																		
10																																		
11																																		
12																																		
13																																		
14																																		
15																																		
16																																		
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION							DATE		TIME		SAMPLE CONDITIONS														
COF-24Q4 Rev 0		S. J. S.			11-4		1550		Jockie Davis							11/4/24		15:58		Y Z														

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		<i>[Signature]</i>		11-4	1550	<i>[Signature]</i>		11/4/24	15:58				
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>NA</i>													
SIGNATURE of SAMPLER: <i>NA</i>													
										DATE Signed (MM/DD/YYYY):			

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:		Page: 1 of 7	
Company: Vistra Corp-Coffeeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Quote Reference:			
Phone: (217) 753-8911 Fax:		Purchase Order No.:		Project Manager:			
Requested Due Date/TAT: 10 day		Project Name: COF 2024 GW		Profile #:			
		Project Number: 1940106781-003					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)				
1	AP2D	WT	G				3	1	2																										24101589-001	
2	G1001	WT	G				2	1	1										X															24101589-002		
3	G1003	WT	G				2	1	1										X															24101589-003		
4	G101	WT	G				5	2	1	1	1																							24101589-004		
5	G102	WT	G				7	2	2	2		1							X															24101589-005		
6	G103	WT	G				7	2	2	2		1							X															24101589-006		
7	G105	WT	G				7	2	2	2		1																						24101589-007		
8	G106	WT	G				7	2	2	2		1																						24101589-008		
9	G107	WT	G				5	2	1	1		1							X															24101589-009		
10	G108	WT	G				5	2	1	1		1							X															24101589-010		
11	G109	WT	G				5	2	1	1		1							X															24101589-011		
12	G110	WT	G				5	2	1	1		1							X															24101589-012		
13	G111	WT	G				5	2	1	1		1							X															24101589-013		
14	G119	WT	G				5	2	1	1		1							X															24101589-014		
15	G120	WT	G				5	2	1	1		1							X															24101589-015		
16	G121	WT	G				5	2	1	1		1							X															24101589-016		
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																							
COF-24Q4 Rev 0			[Signature]			11-6	1545	[Signature]			11/6	1545																								

Added HNO₃(99964) G312, G314, G401

NaOH(99725) G401

PH 96651, 98858

JD 11-7-24 8

Temp: 4.1

5.7

3.7

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

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

Invoice information:

Page: 2 of 7

Company: Vistra Corp-Coffeen		Report To: Brian Voelker	Invoice Information:			
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com	Attention: Brian Voelker			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com	Company Name: Vistra Corp	REGULATORY AGENCY		
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Rich Speraneo: Rich.Speraneo@vistracorp.com	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER
Purchase Order No.:		Quote Reference:	UST	RCRA	OTHER	
Phone: (217) 753-8911	Fax:	Project Name: COF 2024 GW	Project Manager:	Site Location		
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003	Profile #:	STATE:	IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)																		
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₈	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104				COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	G122	WT	G				5	2	1	1	1				X															24101589-017					
2	G123	WT	G				5	2	1	1	1				X															24101589-018					
3	G124	WT	G				5	2	1	1	1				X															24101589-019					
4	G125	WT	G	11/6/24	1022		5	2	1	1	1				X															24101589-020					
5	G126	WT	G				5	2	1	1	1				X															24101589-021					
6	G151	WT	G				4	2		1	1															X				24101589-022					
7	G152	WT	G	11/6/24	1130		4	2		1	1															X				24101589-023					
8	G153	WT	G				4	2		1	1															X				24101589-024					
9	G154	WT	G				5	2		2	1														X	X				24101589-025					
10	G155	WT	G				4	2		1	1														X					24101589-026					
11	G200	WT	G				6	2	1	2	1					X			X		X				X					24101589-027					
12	G206	WT	G				6	2	1	2	1					X			X						X					24101589-028					
13	G206D	WT	G				2	1		1						X			X											24101589-029					
14	G207	WT	G				6	2	1	2	1														X					24101589-030					
15	G208	WT	G				6	2	1	2	1														X					24101589-031					
16	G209	WT	G				6	2	1	2	1					X			X						X					24101589-032					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																							
COF-24Q4 Rev 0		Sgt Sp			11-6	1545	[Signature]			11/6	1545	> z																							

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Tracy Carroll SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 11/16/24		Temp in °C	Received on Ice (Y/N)	Custody Intact 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:		Page: 3 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Purchase Order No.:			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 1940108781-003		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW P PRODUCT SL OIL CL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Y/N	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.			
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106				Residual Chlorine (Y/N)
1	G210	WT	G					6	2	1	2	1																						24101589-033	
2	G211	WT	G					6	2	1	2	1																						24101589-034	
3	G212	WT	G					6	2	1	2	1																						24101589-035	
4	G213	WT	G					6	2	1	2	1																						24101589-036	
5	G214	WT	G					6	2	1	2	1																						24101589-037	
6	G215	WT	G					6	2	1	2	1																						24101589-038	
7	G216	WT	G					6	2	1	2	1																						24101589-039	
8	G217	WT	G					6	2	1	2	1																						24101589-040	
9	G218	WT	G					6	2	1	2	1																						24101589-041	
10	G219	WT	G					3	1		2																							24101589-042	
11	G220	WT	G					3	1		2																							24101589-043	
12	G270	WT	G					6	2	1	2	1																						24101589-044	
13	G271	WT	G					6	2	1	2	1																						24101589-045	
14	G272	WT	G					6	2	1	2	1																						24101589-046	
15	G273	WT	G					6	2	1	2	1																						24101589-047	
16	G274	WT	G					6	2	1	2	1																						24101589-048	
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION			DATE		TIME		SAMPLE CONDITIONS																			
COF-24Q4 Rev 0		ZC SD			11-6		1545		Zach			11/6		1545		> z																			

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
COF-24Q4 Rev 0		<i>[Signature]</i>		11-6	1545	<i>[Signature]</i>		11/6	1545		
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: NA SIGNATURE of SAMPLER: NA										DATE Signed (MM/DD/YY): Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)	

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

Page: 4 of 4

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Initialed (Y/N)
PRINT Name of SAMPLER: Justin Gie					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 1-6-24				

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-Coffeen**
Address: **134 CIPS Lane**
Coffeen, IL 62017
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: **Sam Davies: samantha.davies@vistracorp.com**
Jason Grieve: Jason.Grieve@vistracorp.com
Rich Speraneo: Rich.Speraneo@vistracorp.com
Purchase Order No.:
Project Name: **COF 2024 GW**
Project Number: **1940106781-003**

Section C Invoice Information:

Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project Manager:
Profile #:

Page: **5** of **7**

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.	
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	DRINKING WATER WATER WASTE WATER PRODUCT OIL WPE AIR OTHER TSSUE	DW WT WW P SL OL WP AR OT TS			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000		COF-WPCP-102
1	G307			WT	G				2	1							X														24101589-065
2	G307D			WT	G				2	1							X														24101589-066
3	G308			WT	G				2	1							X														24101589-067
4	G310			WT	G	11-6-24	1121		2	1							X														24101589-068
5	G312			WT	G	11-6-24	1252		2	1							X														24101589-069
6	G313			WT	G				2	1							X														24101589-070
7	G314			WT	G	11-6-24	1411		2	1							X														24101589-071
8	G314D			WT	G				2	1							X														24101589-072
9	G315			WT	G				2	1							X														24101589-073
10	G316			WT	G				2	1							X														24101589-074
11	G401			WT	G	11-6-24	1036		5	2							X				X					X					24101589-075
12	G402			WT	G				5	2							X				X					X					24101589-076
13	G403			WT	G				5	2							X				X					X					24101589-077
14	G404			WT	G				5	2							X				X					X					24101589-078
15	G405			WT	G				5	2							X				X					X					24101589-079
16	G406			WT	G				5	2							X				X					X					24101589-080

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0	<i>[Signature]</i>	11-6	1545	<i>[Signature]</i>	11/6	1545	>	z		

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *Justin GAO*

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed (MM/DD/YY): *11-6-24*

Temp in °C

Received on box (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:		Page: 6 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Purchase Order No.:			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:			

ITEM #	Section D Required Client Information		Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test (Y/N)	Requested Analysis Filtered (Y/N)														Project No./ Lab I.D.
	SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	DATE	TIME	Unpreserved			H ₂ SO ₄	HNO ₃			HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105		COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)					
																																DATE	TIME	Unpreserved	H ₂ SO ₄	
1	G407	WT	G						5	2																					24101589-081					
2	G410	WT	G	11-6-24	0959				4	1																					24101589-082					
3	G411	WT	G	11-6-24	0922				4	1																					24101589-083					
4	L201	WT	G						17	10																					24101589-084					
5	NE Riser	WT	G						3	1																					24101589-085					
6	R104	WT	G						7	2																					24101589-086					
7	R201	WT	G						8	2																					24101589-087					
8	R205	WT	G	11/6/24	1253				6	2																					24101589-088					
9	SG-02	WT	G						0																						24101589-089					
10	SG-03	WT	G						0																						24101589-090					
11	T127	WT	G						5	2																					24101589-091					
12	T128	WT	G						5	2																					24101589-092					
13	X201	WT	G						3	1																					24101589-093					
14	XSG-01	WT	G						0																						24101589-094					
15	Field Blank	WT	G						20	13																					24101589-095					
16	G102 Duplicate	WT	G						7	2																					24101589-096					
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION				DATE				TIME				ACCEPTED BY / AFFILIATION				DATE				TIME				SAMPLE CONDITIONS								
COF-24Q4 Rev 0				[Signature]				11-6				1545				[Signature]				11/6				1545				> z								

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on box (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Justin Calp					
SIGNATURE of SAMPLER: [Signature]					
DATE Signed (MM/DD/YYYY): 11-6-24					

24101589

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-Coffeen**
Address: **134 CIPS Lane**
Coffeen, IL 62017
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: **Sam Davies: samantha.davies@vistracorp.com**
Jason Grieve: Jason.Grieve@vistracorp.com
Purchase Order No.:
Project Name: **COF 2024 GW**
Project Number: **1940108781-003**

Section C

Invoice Information:

Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project:
Profile #:

Page: **7** of **7**

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Analysis Test		Requested Analysis Filtered (Y/N)												Project No./ Lab I.D.			
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes C-COMP)	DATE	TIME	UNPRESERVED	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)		
1	G200 Duplicate	WT			6	2	1	2	1						X					X		X				X			24101589-097
2	G217 Duplicate	WT			6	2	1	2	1						X				X						X			24101589-098	
3	G301 Duplicate	WT			2	1		1					X					X										24101589-099	
4	R201 Duplicate	WT			6	2	1	2	1					X						X		X		X				24101589-100	
5	Equipment Blank 1	WT			7	4	1	1	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24101589-101	
6	Equipment Blank 2	WT			7	4	1	1	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24101589-102	
7	Equipment Blank 3	WT			7	4	1	1	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24101589-103	
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0	<i>[Signature]</i>	11-6	1545	<i>[Signature]</i>	11/6	1545	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:	NA
SIGNATURE of SAMPLER:	NA

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:		Page: 1 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@visstracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@visstracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@visstracorp.com		Quote Reference:			
Phone: (217) 753-8911 Fax:		Purchase Order No.:		Project Manager:			
Requested Due Date/TAT: 10 day		Project Name: COF 2024 GW		Profile #:			
		Project Number: 1940106781-003					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID/SOLID OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Y/N	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)				
1	AP2D		WT	G	11-7-24	1245		3	1	2									X					X										24101589-001		
2	G1001		WT	G		1118		2	1	1									X					X										24101589-002		
3	G1003		WT	G		1224		2	1	1									X						X									24101589-003		
4	G101		WT	G				5	2	1	1		1										X											24101589-004		
5	G102		WT	G				7	2	2	2		1										X							X				24101589-005		
6	G103		WT	G				7	2	2	2		1										X							X				24101589-006		
7	G105		WT	G				7	2	2	2		1										X							X				24101589-007		
8	G106		WT	G				7	2	2	2		1										X							X				24101589-008		
9	G107		WT	G				5	2	1	1		1										X											24101589-009		
10	G108		WT	G				5	2	1	1		1										X											24101589-010		
11	G109		WT	G				5	2	1	1		1										X											24101589-011		
12	G110		WT	G				5	2	1	1		1										X											24101589-012		
13	G111		WT	G				5	2	1	1		1										X											24101589-013		
14	G119		WT	G				5	2	1	1		1										X											24101589-014		
15	G120		WT	G				5	2	1	1		1										X											24101589-015		
16	G121		WT	G				5	2	1	1		1										X											24101589-016		
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																							
COF-24Q4 Rev 0			Jim. f. [signature]			11/7/24	1533	Jonas Davis			11/7/24	15:33	5.5					HS																		

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Brett Gillen		DATE Signed (MM/DD/YYYY): 11-7-24	
SIGNATURE of SAMPLER: [signature]			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)

PHV 9/25/198858
OH

Field Blank Fecal ran out of hotel due to lab error. um 11/8/24

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

Section C
Invoice Information:

Page: 4 of 7

Company: Vistra Corp-Coffeeen		Report To: Brian Voelker	Attention: Brian Voelker			
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp	REGULATORY AGENCY		
Coffeeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com	Purchase Order No.:	UST	RCRA	OTHER
Phone: (217) 753-8911	Fax:	Project Name: COF 2024 GW	Quote Reference:	Site Location		
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003	Profile #:	STATE:	IL	

[illegible]

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: BREH Gillman					
SIGNATURE OF SAMPLER: 	DATE Signed (MM/DD/YY): 11-7-24				

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:		Page: 5 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Quote Reference:			
Phone: (217) 753-8911 Fax:		Purchase Order No.:		Project Manager:			
Requested Due Date/TAT: 10 day		Project Name: COF 2024 GW		Profile #:			
		Project Number: 1940108781-003					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TSSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test#	Requested Analysis Filtered (Y/N)																Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: JUSTIN COP							
SIGNATURE of SAMPLER: <i>Justin Cop</i> DATE Signed (MM/DD/YY): 11-7-24							

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

Page: 6 of 7

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin CP					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 11-7-24				

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:		REGULATORY AGENCY	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		NPDES UST GROUND WATER RCRA DRINKING WATER OTHER	
Address: 134 CIPS Lane Coffeen, IL 62017		Copy To: Sam Davies: samantha.davies@vistracorp.com Jason Grieve: Jason.Grieve@vistracorp.com		Company Name: Vistra Corp		Site Location STATE: IL	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 1940108781-003		Project			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Requested Analysis Filtered (Y/N)																Project No. / Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		Jenny Carroll		11/7/24	1533	Jenny Carroll		11/7/24	15:33				
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Jenny Carroll</i>													
SIGNATURE of SAMPLER: <i>Jenny Carroll</i> DATE Signed (MM/DD/YY): <i>11/7/24</i>													

December 17, 2024

Eric Bauer
Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
TEL: (414) 837-3607
FAX: (414) 837-3608



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: COF-24Q4

WorkOrder: 24101590

Dear Eric Bauer:

TEKLAB, INC received 64 samples on 11/7/2024 3:33:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101590

Client Project: COF-24Q4

Report Date: 17-Dec-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Sample Summary	66
Receiving Check List	68
Chain of Custody	Appended

Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101590

Client Project: COF-24Q4

Report Date: 17-Dec-24

Abbr Definition

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101590

Client Project: COF-24Q4

Report Date: 17-Dec-24

Qualifiers

# - Unknown hydrocarbon	B - Analyte detected in associated Method Blank
C - RL shown is a Client Requested Quantitation Limit	E - Value above quantitation range
H - Holding times exceeded	I - Associated internal standard was outside method criteria
J - Analyte detected below quantitation limits	M - Manual Integration used to determine area response
ND - Not Detected at the Reporting Limit	R - RPD outside accepted recovery limits
S - Spike Recovery outside recovery limits	T - TIC(Tentatively identified compound)
X - Value exceeds Maximum Contaminant Level	



Case Narrative

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101590

Client Project: COF-24Q4

Report Date: 17-Dec-24

Cooler Receipt Temp: 14.9 °C

An employee of Teklab, Inc. collected the sample(s).

G1003 and G277 could not be collected; the wells were dry. G276 went dry during sample collection. Equipment Blanks were not needed (dedicated equipment, only, was employed).

Dates/times of collection per field file confirmation. EAH 11/14/24

Ra226/228 analyses were performed by Eurofins St. Louis. See attached reports for results and QC.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101590

Client Project: COF-24Q4

Report Date: 17-Dec-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-001
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G1001
Collection Date: 11/07/2024 11:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:21	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-003
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G151
Collection Date: 10/30/2024 9:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:21	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-004
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24

Client Sample ID: G152

Collection Date: 11/06/2024 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:22	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-005
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G153
Collection Date: 10/30/2024 10:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:22	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-006

Client Sample ID: G154

Matrix: GROUNDWATER

Collection Date: 10/30/2024 10:21

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:22	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-007

Client Sample ID: G155

Matrix: GROUNDWATER

Collection Date: 10/30/2024 9:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:22	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-008
Matrix: GROUNDWATER
Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G200
Collection Date: 10/29/2024 12:33

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:22	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-009

Client Sample ID: G206

Matrix: GROUNDWATER

Collection Date: 10/31/2024 14:12

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:23	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-010
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G206D
Collection Date: 10/31/2024 13:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:23	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-011
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G209
Collection Date: 10/31/2024 13:04

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:23	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-012

Client Sample ID: G212

Matrix: GROUNDWATER

Collection Date: 10/31/2024 11:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:19	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-013

Client Sample ID: G213

Matrix: GROUNDWATER

Collection Date: 10/31/2024 11:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:19	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-014
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G215
Collection Date: 10/31/2024 11:41

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:20	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-015
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24

Client Sample ID: G217

Collection Date: 10/31/2024 10:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:20	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-016

Client Sample ID: G218

Matrix: GROUNDWATER

Collection Date: 10/31/2024 10:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:20	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-017

Client Sample ID: G219

Matrix: GROUNDWATER

Collection Date: 10/31/2024 10:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:20	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-018
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G220
Collection Date: 10/30/2024 13:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:20	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-019

Client Sample ID: G270

Matrix: GROUNDWATER

Collection Date: 10/29/2024 14:01

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:20	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-020

Client Sample ID: G271

Matrix: GROUNDWATER

Collection Date: 10/31/2024 14:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:20	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-021
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G273
Collection Date: 10/31/2024 13:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/02/2024 12:20	R357464



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-022

Client Sample ID: G275

Matrix: GROUNDWATER

Collection Date: 10/30/2024 10:04

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 12:08	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-023

Client Sample ID: G275D

Matrix: GROUNDWATER

Collection Date: 10/30/2024 9:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 12:08	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-024
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G276
Collection Date: 11/04/2024 11:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 12:08	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-026

Client Sample ID: G279

Matrix: GROUNDWATER

Collection Date: 10/30/2024 11:21

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 12:08	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-027

Client Sample ID: G280

Matrix: GROUNDWATER

Collection Date: 10/30/2024 12:14

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 12:08	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-028

Client Sample ID: G281

Matrix: GROUNDWATER

Collection Date: 10/30/2024 14:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 12:12	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-029

Client Sample ID: G283

Matrix: GROUNDWATER

Collection Date: 11/07/2024 12:11

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 12:11	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-030

Client Sample ID: G284

Matrix: GROUNDWATER

Collection Date: 10/31/2024 12:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 12:12	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-031

Client Sample ID: G285

Matrix: GROUNDWATER

Collection Date: 10/29/2024 11:34

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 12:12	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-032

Client Sample ID: G301

Matrix: GROUNDWATER

Collection Date: 11/07/2024 13:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 13:35	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-033

Client Sample ID: G302

Matrix: GROUNDWATER

Collection Date: 11/06/2024 11:58

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 13:35	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-034
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G303
Collection Date: 11/06/2024 13:48

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 13:36	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-035

Client Sample ID: G305

Matrix: GROUNDWATER

Collection Date: 11/06/2024 13:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 13:36	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-036
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G306
Collection Date: 11/04/2024 10:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 13:36	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-037
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G307
Collection Date: 11/04/2024 11:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 13:36	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-038

Client Sample ID: G307D

Matrix: GROUNDWATER

Collection Date: 11/04/2024 10:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 13:37	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-039

Client Sample ID: G308

Matrix: GROUNDWATER

Collection Date: 11/04/2024 11:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 13:37	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-040

Client Sample ID: G310

Matrix: GROUNDWATER

Collection Date: 11/06/2024 11:21

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 13:38	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-041
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G312
Collection Date: 11/06/2024 12:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 13:38	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-042

Client Sample ID: G313

Matrix: GROUNDWATER

Collection Date: 11/07/2024 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/05/2024 13:38	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-043

Client Sample ID: G314

Matrix: GROUNDWATER

Collection Date: 11/06/2024 14:11

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:49	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-044
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G314D
Collection Date: 11/04/2024 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:49	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-045

Client Sample ID: G315

Matrix: GROUNDWATER

Collection Date: 11/04/2024 13:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:49	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-046

Client Sample ID: G316

Matrix: GROUNDWATER

Collection Date: 11/04/2024 12:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:49	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-047
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G401
Collection Date: 11/06/2024 10:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:50	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-048

Client Sample ID: G402

Matrix: GROUNDWATER

Collection Date: 11/04/2024 11:57

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:50	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-049

Client Sample ID: G403

Matrix: GROUNDWATER

Collection Date: 11/04/2024 11:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:50	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-050

Client Sample ID: G404

Matrix: GROUNDWATER

Collection Date: 11/04/2024 10:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:50	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-051

Client Sample ID: G405

Matrix: GROUNDWATER

Collection Date: 11/04/2024 10:21

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:50	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-052

Client Sample ID: G406

Matrix: GROUNDWATER

Collection Date: 11/04/2024 12:46

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:50	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-053

Client Sample ID: G407

Matrix: GROUNDWATER

Collection Date: 11/04/2024 13:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:51	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-054
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G410
Collection Date: 11/06/2024 9:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:51	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-055

Client Sample ID: G411

Matrix: GROUNDWATER

Collection Date: 11/06/2024 9:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:51	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab ID: 24101590-056

Client Sample ID: R201

Matrix: GROUNDWATER

Collection Date: 10/30/2024 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:51	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-057
Matrix: AQUEOUS

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: Field Blank
Collection Date: 11/07/2024 12:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:51	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-058
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G200 Duplicate
Collection Date: 10/29/2024 12:33

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:51	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-059
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G217 Duplicate
Collection Date: 10/31/2024 10:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:52	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-060
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: G301 Duplicate
Collection Date: 11/07/2024 13:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:56	R357675



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
COF-845-101

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4
Lab ID: 24101590-061
Matrix: GROUNDWATER

Work Order: 24101590
Report Date: 17-Dec-24
Client Sample ID: R201 Duplicate
Collection Date: 10/30/2024 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	12/04/2024 11:56	R357675



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
24101590-001	G1001	Groundwater	1	11/07/2024 11:18
24101590-002	G1003	Groundwater	1	
24101590-003	G151	Groundwater	1	10/30/2024 9:16
24101590-004	G152	Groundwater	1	11/06/2024 11:30
24101590-005	G153	Groundwater	1	10/30/2024 10:45
24101590-006	G154	Groundwater	1	10/30/2024 10:21
24101590-007	G155	Groundwater	1	10/30/2024 9:51
24101590-008	G200	Groundwater	1	10/29/2024 12:33
24101590-009	G206	Groundwater	1	10/31/2024 14:12
24101590-010	G206D	Groundwater	1	10/31/2024 13:52
24101590-011	G209	Groundwater	1	10/31/2024 13:04
24101590-012	G212	Groundwater	1	10/31/2024 11:05
24101590-013	G213	Groundwater	1	10/31/2024 11:37
24101590-014	G215	Groundwater	1	10/31/2024 11:41
24101590-015	G217	Groundwater	1	10/31/2024 10:53
24101590-016	G218	Groundwater	1	10/31/2024 10:25
24101590-017	G219	Groundwater	1	10/31/2024 10:19
24101590-018	G220	Groundwater	1	10/30/2024 13:08
24101590-019	G270	Groundwater	1	10/29/2024 14:01
24101590-020	G271	Groundwater	1	10/31/2024 14:20
24101590-021	G273	Groundwater	1	10/31/2024 13:24
24101590-022	G275	Groundwater	1	10/30/2024 10:04
24101590-023	G275D	Groundwater	1	10/30/2024 9:42
24101590-024	G276	Groundwater	1	11/04/2024 11:26
24101590-025	G277	Groundwater	1	
24101590-026	G279	Groundwater	1	10/30/2024 11:21
24101590-027	G280	Groundwater	1	10/30/2024 12:14
24101590-028	G281	Groundwater	1	10/30/2024 14:25
24101590-029	G283	Groundwater	1	11/07/2024 12:11
24101590-030	G284	Groundwater	1	10/31/2024 12:35
24101590-031	G285	Groundwater	1	10/29/2024 11:34
24101590-032	G301	Groundwater	1	11/07/2024 13:18
24101590-033	G302	Groundwater	1	11/06/2024 11:58
24101590-034	G303	Groundwater	1	11/06/2024 13:48
24101590-035	G305	Groundwater	1	11/06/2024 13:20
24101590-036	G306	Groundwater	1	11/04/2024 10:19
24101590-037	G307	Groundwater	1	11/04/2024 11:19
24101590-038	G307D	Groundwater	1	11/04/2024 10:56
24101590-039	G308	Groundwater	1	11/04/2024 11:56



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: COF-24Q4

Work Order: 24101590
Report Date: 17-Dec-24

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
24101590-040	G310	Groundwater	1	11/06/2024 11:21
24101590-041	G312	Groundwater	1	11/06/2024 12:52
24101590-042	G313	Groundwater	1	11/07/2024 11:40
24101590-043	G314	Groundwater	1	11/06/2024 14:11
24101590-044	G314D	Groundwater	1	11/04/2024 13:50
24101590-045	G315	Groundwater	1	11/04/2024 13:16
24101590-046	G316	Groundwater	1	11/04/2024 12:36
24101590-047	G401	Groundwater	1	11/06/2024 10:36
24101590-048	G402	Groundwater	1	11/04/2024 11:57
24101590-049	G403	Groundwater	1	11/04/2024 11:06
24101590-050	G404	Groundwater	1	11/04/2024 10:40
24101590-051	G405	Groundwater	1	11/04/2024 10:21
24101590-052	G406	Groundwater	1	11/04/2024 12:46
24101590-053	G407	Groundwater	1	11/04/2024 13:40
24101590-054	G410	Groundwater	1	11/06/2024 9:59
24101590-055	G411	Groundwater	1	11/06/2024 9:22
24101590-056	R201	Groundwater	1	10/30/2024 14:10
24101590-057	Field Blank	Aqueous	1	11/07/2024 12:55
24101590-058	G200 Duplicate	Groundwater	1	10/29/2024 12:33
24101590-059	G217 Duplicate	Groundwater	1	10/31/2024 10:53
24101590-060	G301 Duplicate	Groundwater	1	11/07/2024 13:18
24101590-061	R201 Duplicate	Groundwater	1	10/30/2024 14:10
24101590-062	Equipment Blank 1	Aqueous	1	
24101590-063	Equipment Blank 2	Aqueous	1	
24101590-064	Equipment Blank 3	Aqueous	1	



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24101590

Client Project: COF-24Q4

Report Date: 17-Dec-24

Carrier: Justin Colp

Received By: AMD

Completed by:

On:

29-Oct-24

Amber Dilallo

Reviewed by:

On:

12-Nov-24

Ellie Hopkins

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	Temp °C 14.9
Type of thermal preservation?	No ☐	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.

Samples were received on 10/29/24 at 1600 on ice. Cooler #1 14.9c. Cooler #2 12.1c. Additional Nitric Acid (99964) was needed upon arrival at the laboratory. pH strip #96651. - amberdilallo - 10/29/2024 4:39:36 PM

Samples were received on 10/30/24 at 1620 on ice (LTG #10). Cooler #1 = 8.1c. Cooler #2 = 9.1c. Cooler #3 = 14.1c. Cooler #4 = 16.7c. Additional Nitric Acid (99964) was needed in G153, G275, and G275D upon arrival at the laboratory. pH strip #96651. - NR/amberdilallo - 10/31/2024 8:29:27 AM

Samples were received on 10/31/24 at 1600 on ice [12.5C - LTG#9]. Additional Nitric Acid (99964) was needed upon arrival at the laboratory for G218. pH strip #96651. G220 received 10/30/24. Date and time for G213 per Brett Gillihan. - amberdilallo - 11/1/2024 10:06:52 AM

Samples were received on 11/4/24 at 1550 on ice [3.3C - LTG#5]. Additional Nitric Acid (99964) was needed upon arrival at the laboratory for G314D and G316. pH strip #96651. Cooler #1 3.3c. Cooler #2 3.5c. Cooler #3 3.5c. Cooler #4 2.1c. - JD/amberdilallo - 11/5/2024 10:41:23 AM

Samples were received on 11/06/24 at 15.45 on ice Cooler #1 3.7C, Cooler #2 4.1C, Cooler #3 5.7 - LTG9. Ph strip #96651. Additional nitric acid (99964) was needed upon arrival at the laboratory for sample G503 and G314.- lhenson - 11/7/2024 10:31:50 AM

Samples were received on 11/7/24 at 1533 on ice [5.5C - LTG#5]. Additional Nitric Acid (99964) was needed upon arrival at the laboratory for G313. pH strip #96651. - amberdilallo - 11/8/2024 9:25:52 AM

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:		Page: 1 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Quote Reference:			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:		Site Location	
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:		STATE: IL	

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 WASTE WATER WW PRODUCT P SOLID SL WPE WP AIR AR OTHER OT ISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)												Radium 226/228, only	Project No./ Lab I.D.				
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000			COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)
1	AP2D		WT	G			0																									N/A		
2	G1001		WT	G			2		2																							24101590-001		
3	G1003		WT	G			2		2																							24101590-002		
4	G101		WT	G			0																									N/A		
5	G102		WT	G			0																									N/A		
6	G103		WT	G			0																									N/A		
7	G105		WT	G			0																									N/A		
8	G106		WT	G			0																									N/A		
9	G107		WT	G			0																									N/A		
10	G108		WT	G	10-29-24	0944	0																									N/A		
11	G109		WT	G		1005	0																									N/A		
12	G110		WT	G		1033	0																									N/A		
13	G111		WT	G		1056	0																									N/A		
14	G119		WT	G		1247	0																									N/A		
15	G120		WT	G		1308	0																									N/A		
16	G121		WT	G		1330	0																									N/A		

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	TECHNICAL SAMPLE CONDITIONS			
COF-24Q4 Rev 0		J. Colp		10-29	1600	J. Colp		10/29/24	1600	Temp in °C: 14.9 Received on Ice (Y/N): Custody Sealed Cooler (Y/N): Samples Intact (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: <i>[Signature]</i>					
DATE Signed (MM/DD/YYYY): 10-29-24		Added HNO ₃ (99%) Temp #1 14.9°C #2 12.1°C to G285 2/2			

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Page: 2 of 7

Requested Analysis Filtered (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 Cole					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 10-29-24				

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

Page: 3 of 7

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on (ice (Y/N))	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Justin Cole					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 10-28-74				

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Page: 4 of 7

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Container (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Cole					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 10-24-24				

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:		Page: 6 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com Rich Speraneo: Rich.Speraneo@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		Site Location	
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:		STATE: IL	
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)																Radium 226/228, only																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			MATRIX	CODE			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			DRAINING WATER WATER WASTE WATER PRODUCT SOLID/SOLID OL WPE AR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1		G407	WT	G						2			2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		J. Corp		10/29	1600	Jordan Oliver		10/29/24	1600				
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:													
SIGNATURE of SAMPLER:													
DATE Signed (MM/DD/YY): 10-29-24													

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-Coffeen**
Address: **134 CIPS Lane**
Coffeen, IL 62017
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: **Sam Davies: samantha.davies@vistracorp.com**
Jason Grieve: Jason.Grieve@vistracorp.com
Rich Speraneo: Rich.Speraneo@vistracorp.com
Purchase Order No.:
Project Name: **COF 2024 GW**
Project Number: **1940106781-003**

Section C

Invoice Information:

Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project Manager:
Profile #:

Page: 1 of 7

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)												Radium 226/228, only	
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	DRINKING WATER WATER WASTE WATER PRODUCT SOL/SOLID OIL WPE AR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106
1	AP2D			WT	G				0							X				X				X						N/A		
2	G1001			WT	G				2		2					X				X									24101590-001			
3	G1003			WT	G				2		2					X				X			X						24101590-002			
4	G101			WT	G				0									X											N/A			
5	G102			WT	G				0									X								X			N/A			
6	G103			WT	G	10-30-24	1706		0									X								X			N/A			
7	G105			WT	G	↓	1735		0									X								X			N/A			
8	G106			WT	G	↓	1332		0									X								X			N/A			
9	G107			WT	G	↓	1346		0									X											N/A			
10	G108			WT	G				0									X											N/A			
11	G109			WT	G				0									X											N/A			
12	G110			WT	G				0									X											N/A			
13	G111			WT	G				0									X											N/A			
14	G119			WT	G				0									X											N/A			
15	G120			WT	G				0									X											N/A			
16	G121			WT	G				0									X											N/A			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0	SS	10-30	1620	Justin Davis	10/30/24	16:20	8.1	>	z	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Davis

SIGNATURE of SAMPLER: Justin Davis

DATE Signed (MM/DD/YY): 10/30/24

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

Cooler #1 8.1c
Cooler #2 9.1c
Cooler #3 14.1c
Cooler #4 16.7c

LTC 10

PHV 96651

Ice
LTC #5

Added HNO₃ (99964) +
2/2 G153 + G275
1/2 G275
10/30

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:		Page: 2 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Quote Reference:			
Phone: (217) 753-8911 Fax:		Purchase Order No.:		Project Manager:			
Requested Due Date/TAT: 10 day		Project Name: COF 2024 GW		Profile #:			
		Project Number: 1940106781-003					

ITEM #		Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives										Y/N	Analysis Test	Radium 226/228, only													
																								Residual Chlorine (Y/N)	Project No./ Lab I.D.												

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		21 S		10-30	1620	Coffeen Power		10/30/24	16:20				
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Justin Cole</i>													
SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DD/YY): 10-30-24													

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:		Page: 3 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker			
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com Rich Speraneo: Rich.Speraneo@vistracorp.com		Address: see Section A		REGULATORY AGENCY	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES GROUND WATER DRINKING WATER	
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:		UST RCRA OTHER	
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:		Site Location: IL	
						STATE:	

ITEM #	Section D Required Client Information		Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Y/N	Radium 226/228, only											
	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID/SOLID SL OIL OL WPE WP AIR AR OTHER OT ISSUE TS	DATE	TIME			Unpreserved	H ₂ SO ₄			HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104			COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G210	WT	G				0																			X			N/A					
2	G211	WT	G				0																			X			N/A					
3	G212	WT	G				2			2											X					X			24101590-012					
4	G213	WT	G				2			2											X					X			24101590-013					
5	G214	WT	G				0																			X			N/A					
6	G215	WT	G				2			2											X					X			24101590-014					
7	G216	WT	G				0																			X			N/A					
8	G217	WT	G				2			2											X					X			24101590-015					
9	G218	WT	G				2			2											X					X			24101590-016					
10	G219	WT	G				2			2													X						24101590-017					
11	G220	WT	G	10-30-24	1308		2			2													X						24101590-018					
12	G270	WT	G				2			2											X			X	X	X			24101590-019					
13	G271	WT	G				2			2												X		X	X	X			24101590-020					
14	G272	WT	G				0																			X			N/A					
15	G273	WT	G				2			2												X		X	X	X			24101590-021					
16	G274	WT	G	10-30-24	918		0																			X			N/A					
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION			DATE		TIME		SAMPLE CONDITIONS																	
COF-24Q4 Rev 0			[Signature]			10-30		1620		[Signature]			10/30		16:20		> z																	

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		[Signature]		10-30	1620	[Signature]		10/30/24	16:20	> z			
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: [Signature]													
SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 10-30-24													

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-Coffeen**
Address: **134 CIPS Lane**
Coffeen, IL 62017
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: **Sam Davies: samantha.davies@vistracorp.com**
Jason Grieve: Jason.Grieve@vistracorp.com
Rich Speraneo: Rich.Speraneo@vistracorp.com
Purchase Order No.:
Project Name: **COF 2024 GW**
Project Number: **1940106781-003**

Section C

Invoice Information:

Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project Manager:
Profile #:

Page: **4** of **7**

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED		PRESERVATIVES		Requested Analysis Filtered (Y/N)																Radium 226/228, only									
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test #	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-105	Residual Chlorine (Y/N)	Project No./ Lab I.D.	
1	G275	WT	G	10-30-24	1004		2																										24101590-022
2	G275D	WT	G	10-30-24	942		2																										24101590-023
3	G276	WT	G	10-30-24	Dry		2																										24101590-024
4	G277	WT	G				2																										24101590-025
5	G278	WT	G	10-30-24	1059		0																										N/A
6	G279	WT	G	10-30-24	1121		2																										24101590-026
7	G280	WT	G	10-30-24	1719		2											X	X			X		X	X	X	X	X	X				24101590-027
8	G281	WT	G	10-30-24	1425		2										X	X				X	X										24101590-028
9	G283	WT	G				2													X					X								24101590-029
10	G284	WT	G				2													X					X								24101590-030
11	G285	WT	G				2													X					X								24101590-031
12	G301	WT	G				2										X					X											24101590-032
13	G302	WT	G				2										X					X											24101590-033
14	G303	WT	G				2										X					X											24101590-034
15	G305	WT	G				2										X					X											24101590-035
16	G306	WT	G				2										X					X											24101590-036

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Justin Cobb**

SIGNATURE of SAMPLER: **Justin Cobb**

DATE Signed (MM/DD/YY): **10-30-24**

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

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

Page: 6 of 7

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-24Q4 Rev 0	[Signature]	10-30	1620	Gabe Davis	10/30/24	16:20	> z

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 Wolf					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 10-30-25				

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-Coffeen**
Address: **134 CIPS Lane**
Coffeen, IL 62017
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: **Sam Davies: samantha.davies@vistracorp.com**
Jason Grieve: Jason.Grieve@vistracorp.com
Purchase Order No.:
Project Name: **COF 2024 GW**
Project Number: **1940106781-003**

Section C

Invoice Information:

Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote
Project
Profile #:

Page: **7** of **7**

Section D Required Client Information		Valid Matrix Codes		COLLECTED		Preservatives		Requested Analysis Filtered (Y/N)		Radium 226/228, only																				
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX	CODE	DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G217 Duplicate	WT	G			2		2									X													24101590-059
2	G301 Duplicate	WT	G			2		2							X					X										24101590-060
3	R201 Duplicate	WT	G	10/30/24	1410	2		2								X						X	X							24101590-061
4	Equipment Blank 1	WT	G			2		2							X	X	X	X	X	X	X	X	X	X	X	X	X	X		24101590-062
5	Equipment Blank 2	WT	G			2		2							X	X	X	X	X	X	X	X	X	X	X	X	X	X		24101590-063
6	Equipment Blank 3	WT	G			2		2							X	X	X	X	X	X	X	X	X	X	X	X	X	X		24101590-064
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-24Q4 Rev 0	<i>Sam Davies</i>	10-30	1620	<i>Justin Cap</i>	10/30/24	16:20				

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Justin Cap</i>				
SIGNATURE of SAMPLER:	<i>Justin Cap</i>	DATE Signed (MM/DD/YY):	10/30-24		

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:		Page: 1 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker			
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:			
						REGULATORY AGENCY	
						NPDES GROUND WATER DRINKING WATER	
						UST RCRA OTHER	
						Site Location	
						STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)												Radium 226/228, only				
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.	
1	AP2D		WT	G				0																									N/A	
2	G1001		WT	G				2		2																							24101590-001	
3	G1003		WT	G				2		2																							24101590-002	
4	G101		WT	G	10-31-24	0936		0																									N/A	
5	G102		WT	G	10-31-24	0959		0																									N/A	
6	G103		WT	G				0																										N/A
7	G105		WT	G				0																										N/A
8	G106		WT	G				0																										N/A
9	G107		WT	G				0																										N/A
10	G108		WT	G				0																										N/A
11	G109		WT	G				0																										N/A
12	G110		WT	G				0																										N/A
13	G111		WT	G				0																										N/A
14	G119		WT	G				0																										N/A
15	G120		WT	G				0																										N/A
16	G121		WT	G				0																										N/A
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																					
COF-24Q4 Rev 0			SIL SP			10-31	1600	Smor Ojales			10/31/2000	12.5	#9																					

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		<i>Bill Go</i>		10-31	1600	<i>Justin Colles</i>		10/31/24	1600	12.5	>	z	
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Justin Colles</i>													
SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DD/YY): 10-31-24													

Added HNO3 (999wt)
to G218 1/2.
pH v 9.0051 um 10/11/24

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:		Page: 2 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Quote Reference:			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 1940108781-003		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test#	Y/N	Radium 226/228, only													
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102			COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G122	WT	G				0																										N/A	
2	G123	WT	G				0																										N/A	
3	G124	WT	G				0																										N/A	
4	G125	WT	G				0																										N/A	
5	G126	WT	G				0																										N/A	
6	G151	WT	G				2			2																					X		24101590-003	
7	G152	WT	G				2			2																					X		24101590-004	
8	G153	WT	G				2			2																					X		24101590-005	
9	G154	WT	G				2			2																				X	X		24101590-006	
10	G155	WT	G				2			2																					X		24101590-007	
11	G200	WT	G				2			2										X										X			24101590-008	
12	G206	WT	G		10-31-24	1412	2			2										X										X			24101590-009	
13	G206D	WT	G		10-31-24	1352	2			2										X													24101590-010	
14	G207	WT	G				0																								X		N/A	
15	G208	WT	G		10-31-24	1320	0																								X		N/A	
16	G209	WT	G		10-31-24	1304	2			2										X										X			24101590-011	
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																				
COF-24Q4 Rev 0		S-I SO		10-31		1600		Upper Orleans		10/31/14		1600		> z																				

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
COF-24Q4 Rev 0		<i>S-I SO</i>		10-31	1600	<i>Sharon O'Connell</i>		10/31/24	1600	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: <i>Justin Cold</i> SIGNATURE of SAMPLER: <i>Justin Cold</i>											
DATE Signed (MM/DD/YY): <i>10-31-24</i>											

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:		Page: 3 of 7	
Company: Vistra Corp-Coffeeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY	
Address: 134 CIPS Lane Coffeeen, IL 62017		Copy To: Sam Davies: samantha.davies@vistracorp.com Jason Grieve: Jason.Grieve@vistracorp.com Rich Speraneo: Rich.Speraneo@vistracorp.com		Company Name: Vistra Corp Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES GROUND WATER DRINKING WATER	
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:		UST RCRA OTHER	
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:		Site Location STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODES DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL CL WPE WP AR AR OTHER OT ISSUE TS	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Code (see valid codes to left)	Sample Type (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								V/N	Radium 226/228, only																
						DATE	TIME			Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other		Analysis Test	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NIE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-105	Residual Chlorine (V/N)	Project No./ Lab I.D.
1	G210	WT G	10-31-24	1241	0																				X		N/A								
2	G211	WT G	10-31-24	1206	0																				X		N/A								
3	G212	WT G	10-31-24	1105	2		2													X					X		24101590-012								
4	G213	WT G	10-31-24	1137	2		2													X					X		24101590-013								
5	G214	WT G	10-31-24	1202	0																				X		N/A								
6	G215	WT G	↓	1141	2		2													X					X		24101590-014								
7	G216	WT G	↓	1116	0																				X		N/A								
8	G217	WT G	↓	1053	2		2													X					X		24101590-015								
9	G218	WT G	↓	1025	2		2													X					X		24101590-016								
10	G219	WT G	10-31-24	1019	2		2															X					24101590-017								
11	G220	WT G	10-31-24	1308	2		2															X					24101590-018								
12	G270	WT G			2		2													X			X	X	X		24101590-019								
13	G271	WT G	10-31-24	1400	2		2															X		X	X		24101590-020								
14	G272	WT G	10-31-24	1354	0																				X		N/A								
15	G273	WT G	10-31-24	1324	2		2													X		X		X	X		24101590-021								
16	G274	WT G			0																				X		N/A								
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLE CONDITIONS																					
COF-24Q4 Rev 0				[Signature]		10-31	1600	Sharon O'Brien				10-31	1600																						

G220 received 10/30/24.

DC tel time for G213

DC tel time for G213
per Brett Gillman. um ^{TE} 10² 11/1/24

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 Loo					
SIGNATURE of SAMPLER: <i>Justin Loo</i>	DATE Signed (MM/DD/YY): 10-31-24				

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

Invoice Information:

Page: 4 of 7

Company: Vistra Corp-Coffeen		Report To: Brian Voelker	Attention: Brian Voelker						
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp	REGULATORY AGENCY					
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		UST	RCRA	OTHER			
Phone: (217) 753-8911	Fax:	Purchase Order No.:	Quote Reference:	<table border="1"> <tr> <td>Site Location</td> <td rowspan="2">IL</td> </tr> <tr> <td>STATE:</td> </tr> </table>			Site Location	IL	STATE:
Site Location	IL								
STATE:									
Project Name: COF 2024 GW		Project Manager:							
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003	Profile #:						

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE GROUNDWATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OIL CL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)										Radium 226/228, only		
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102
1	G275		WT	G				2		2										X									24101590-022
2	G275D		WT	G				2		2										X		X						24101590-023	
3	G276		WT	G				2		2										X		X		X				24101590-024	
4	G277		WT	G				2		2										X		X		X				24101590-025	
5	G278		WT	G				0																X			N/A		
6	G279		WT	G				2		2															X			24101590-026	
7	G280		WT	G				2		2								X	X		X	X	X					24101590-027	
8	G281		WT	G				2		2								X	X				X					24101590-028	
9	G283		WT	G				2		2									X		X							24101590-029	
10	G284		WT	G	10-31-24	1235		2		2									X		X							24101590-030	
11	G285		WT	G				2		2										X		X						24101590-031	
12	G301		WT	G				2		2																		24101590-032	
13	G302		WT	G				2		2																		24101590-033	
14	G303		WT	G				2		2																		24101590-034	
15	G305		WT	G				2		2																		24101590-035	
16	G306		WT	G				2		2																		24101590-036	
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION							DATE	TIME	SAMPLE CONDITIONS												
COF-24Q4 Rev 0			Jif Gg			10-31	1600	Union Oilco							10/31/24	1600	> z												

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Breagh Gilligan</i>					
SIGNATURE OF SAMPLER: <i>Breagh Gilligan</i>	DATE Signed (MM/DD/YY): <i>10-31-24</i>				

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-Coffeen**
Address: **134 CIPS Lane**
Coffeen, IL 62017
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: **Sam Davies: samantha.davies@vistracorp.com**
Jason Grieve: Jason.Grieve@vistracorp.com
Rich Speraneo: Rich.Speraneo@vistracorp.com
Purchase Order No.:
Project Name: **COF 2024 GW**
Project Number: **1940106781-003**

Section C

Invoice Information:

Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project Manager:
Profile #:

Page: **5** of **7**

Section D Required Client Information										Requested Analysis Filtered (Y/N)										Radium 226/228, only											
ITEM #	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 SOL/SOLID SL OL WPE WP AIR AR OTHER OT TSS TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.				
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104		COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104
1	G307		WT	G				2		2						X															24101590-037
2	G307D		WT	G				2		2						X															24101590-038
3	G308		WT	G				2		2						X															24101590-039
4	G310		WT	G				2		2						X															24101590-040
5	G312		WT	G				2		2						X															24101590-041
6	G313		WT	G				2		2						X															24101590-042
7	G314		WT	G				2		2						X															24101590-043
8	G314D		WT	G				2		2						X															24101590-044
9	G315		WT	G				2		2						X															24101590-045
10	G316		WT	G				2		2						X															24101590-046
11	G401		WT	G				2		2							X														24101590-047
12	G402		WT	G				2		2							X														24101590-048
13	G403		WT	G				2		2							X														24101590-049
14	G404		WT	G				2		2							X														24101590-050
15	G405		WT	G				2		2							X														24101590-051
16	G406		WT	G				2		2							X														24101590-052

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0	<i>[Signature]</i>	10-31	1600	<i>[Signature]</i>	10/31/24	1600				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **NA**

SIGNATURE of SAMPLER: **NA**

DATE Signed
(MM/DD/YY):

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-Coffeen**
Address: **134 CIPS Lane**
Coffeen, IL 62017
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: **Sam Davies; samantha.davies@vistracorp.com**
Jason Grieve; Jason.Grieve@vistracorp.com
Rich Speraneo; Rich.Speraneo@vistracorp.com
Purchase Order No.:
Project Name: **COF 2024 GW**
Project Number: **1940106781-003**

Section C

Invoice Information:

Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project Manager:
Profile #:

Page: **6** of **7**

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED		PRESERVATIVES		Requested Analysis Filtered (Y/N)																Radium 226/228, only								
ITEM #	SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G407	WT	G				2		2								X															24101590-053
2	G410	WT	G				2		2																							24101590-054
3	G411	WT	G				2		2																							24101590-055
4	L201	WT	G				0														X											N/A
5	NE Riser	WT	G				0											X														N/A
6	R104	WT	G				0														X											N/A
7	R201	WT	G				2		2									X								X						24101590-056
8	R205	WT	G				0																									N/A
9	SG-02	WT	G				0										X	X				X	X									N/A
10	SG-03	WT	G				0										X	X				X	X									N/A
11	T127	WT	G				0														X											N/A
12	T128	WT	G				0														X											N/A
13	X201	WT	G				0												X						X		X					N/A
14	XSG-01	WT	G				0										X					X										N/A
15	Field Blank	WT	G				2		2								X	X	X	X	X	X	X	X	X	X	X	X	X	X		24101590-057
16	G200 Duplicate	WT	G				2		2									X					X									24101590-058

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		[Signature]		10-31	1600	[Signature]		10/31/24	1600				
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: NA													
SIGNATURE of SAMPLER: NA													
										DATE Signed (MM/DD/YYYY):			

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-Coffeen**
Address: **134 CIPS Lane**
Coffeen, IL 62017
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: **Sam Davies: samantha.davies@vistracorp.com**
Jason Grieve: Jason.Grieve@vistracorp.com
Purchase Order No.:
Project Name: **COF 2024 GW**
Project Number: **1940108781-003**

Section C

Invoice Information:

Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote:
Project:
Profile #:

Page: **7** of **7**

Section D Required Client Information		Valid Matrix Codes		MATRIX CODE (see valid codes & C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)																Radium 226/228, only	
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX	CODE		DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.		
1	G217 Duplicate	WT	G	10-31-24	1053	2											X														24101590-059				
2	G301 Duplicate	WT	G			2									X				X												24101590-060				
3	R201 Duplicate	WT	G			2										X						X									24101590-061				
4	Equipment Blank 1	WT	G			2									X	X	X	X	X	X	X	X	X	X	X	X	X	X			24101590-062				
5	Equipment Blank 2	WT	G			2									X	X	X	X	X	X	X	X	X	X	X	X	X	X			24101590-063				
6	Equipment Blank 3	WT	G			2									X	X	X	X	X	X	X	X	X	X	X	X	X	X			24101590-064				
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-24Q4 Rev 0	<i>[Signature]</i>	10-31	1600	<i>[Signature]</i>	10/31/24	1600	Y	N		

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE signed

(MM/DD/YY): 10-31-24

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:		Page: 1 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies; samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve; Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo; Rich.Speraneo@vistracorp.com					
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Quote Reference:			
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRAINAGE WATER DW WATER WT WASTE WATER WW PRODUCT P SOL-SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N Analysis Test	Requested Analysis Filtered (Y/N)																Radium 226/228, only																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102		COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
1	AP2D	WT	G				0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

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: NA					
SIGNATURE of SAMPLER: NA					
DATE Signed (MM/DD/YYYY):					

Cooler #1 3.3c LTC5
Cooler #2 3.5c
Cooler #3 3.5c
Cooler #4 2.1c
Jm 11/5/24

Added HNO₃ (99964) to Samples G314D 2/2, G316 2/2
PH 96651
JD 11/5/24

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Page: 2 of 7

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WPE WP AR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N Analysis Test	Requested Analysis Filtered (Y/N)														Radium 226/228, only		
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.	
1	G122		WT	G				0																										N/A
2	G123		WT	G	11/4/24	1339		0																										N/A
3	G124		WT	G				0																										N/A
4	G125		WT	G				0																										N/A
5	G126		WT	G				0																										N/A
6	G151		WT	G				2		2																						X	24101590-003	
7	G152		WT	G				2		2																					X	24101590-004		
8	G153		WT	G				2		2																					X	24101590-005		
9	G154		WT	G				2		2																				X	X	24101590-006		
10	G155		WT	G				2		2																					X	24101590-007		
11	G200		WT	G				2		2																					X	24101590-008		
12	G206		WT	G				2		2																					X	24101590-009		
13	G206D		WT	G				2		2																							24101590-010	
14	G207		WT	G	11/4/24	1235		0																							X	N/A		
15	G208		WT	G				0																							X	N/A		
16	G209		WT	G				2		2																					X	24101590-011		
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																					
COF-24Q4 Rev 0			27 G			11-4	1899	Jodi Davis			11-4-24	15:50	> z																					

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Brett Gilligan</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YY): <i>11-4-24</i>				

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

Page: 3 of 7

ITEM #	Section D Required Client Information	Valid Matrix Codes <u>MATRIX</u> <u>CODE</u> DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							<u>Y/N</u>	Requested Analysis Filtered (Y/N)										Radium 226/228, only						
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-945-101	COF-945-102	COF-945-103	COF-945-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G210	WT	G			0																		X		N/A							
2	G211	WT	G			0																		X		N/A							
3	G212	WT	G			2		2							X				X					X		24101590-012							
4	G213	WT	G			2		2							X				X					X		24101590-013							
5	G214	WT	G			0																		X		N/A							
6	G215	WT	G			2		2							X				X					X		24101590-014							
7	G216	WT	G			0																		X		N/A							
8	G217	WT	G			2		2							X				X					X		24101590-015							
9	G218	WT	G			2		2							X				X					X		24101590-016							
10	G219	WT	G			2		2													X					24101590-017							
11	G220	WT	G			2		2													X					24101590-018							
12	G270	WT	G			2		2							X	X		X	X	X			X	X		24101590-019							
13	G271	WT	G			2		2							X			X	X				X			24101590-020							
14	G272	WT	G			0																		X		N/A							
15	G273	WT	G			2		2							X			X		X			X			24101590-021							
16	G274	WT	G			0																		X		N/A							
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																			
COF-24Q4 Rev 0		[Signature] GO		11-4		1550		[Signature] Davis		11-4-24		15:50		> z																			

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

24101590

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:		Page: 4 of 7	
Company: Vistra Corp-Coffeeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@visstracorp.com		Company Name: Vistra Corp			
Coffeeen, IL 62017		Jason Grieve: Jason.Grieve@visstracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@visstracorp.com		Quote Reference:			
Phone: (217) 753-8911 Fax:		Purchase Order No.:		Project Manager:			
Requested Due Date/TAT: 10 day		Project Name: COF 2024 GW		Profile #:			
		Project Number: 1940106781-003					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)																Radium 226/228, only	
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.		
1	G275	WT	G				2		2																									24101590-022	
2	G275D	WT	G				2		2																								24101590-023		
3	G276	WT	G	11/2/24	7:26		2		2																								24101590-024		
4	G277	WT	G				2		2																								24101590-025		
5	G278	WT	G				0																										N/A		
6	G279	WT	G				2		2																								24101590-026		
7	G280	WT	G				2		2																								24101590-027		
8	G281	WT	G				2		2																								24101590-028		
9	G283	WT	G				2		2																								24101590-029		
10	G284	WT	G				2		2																								24101590-030		
11	G285	WT	G				2		2																								24101590-031		
12	G301	WT	G				2		2																								24101590-032		
13	G302	WT	G				2		2																								24101590-033		
14	G303	WT	G				2		2																								24101590-034		
15	G305	WT	G				2		2																								24101590-035		
16	G306	WT	G	11-4-24	10:19		2		2																								24101590-036		
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION				DATE		TIME		SAMPLE CONDITIONS																		
COF-24Q4 Rev 0		S J SO			11-4		1550		Darius				11-4-24		15:50		x z																		

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		[Signature]		11-4	15:50	[Signature]		11-4-24	15:50				
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 Col													
SIGNATURE of SAMPLER: [Signature]													
DATE Signed (MM/DD/YY): 11-4-24													

Received G31410, not
G314. Sm 11/5/24

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Page: 6 of 7

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL CL CL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Y/N Analysis Test↓	Requested Analysis Filtered (Y/N)										Radium 226/228, only							
					DATE	TIME			Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$		Methanol	Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	
1	G407	WT G	11-9-24	1340	2	2							X																		24101590-053		
2	G410	WT G			2	2																		X							24101590-054		
3	G411	WT G			2	2																		X							24101590-055		
4	L201	WT G			0										X																N/A		
5	NE Riser	WT G			0									X																	N/A		
6	R104	WT G			0										X										X						N/A		
7	R201	WT G			2	2								X										X							24101590-056		
8	R205	WT G			0																			X							N/A		
9	SG-02	WT G			0									X	X																N/A		
10	SG-03	WT G			0									X	X																N/A		
11	T127	WT G			0										X																N/A		
12	T128	WT G			0										X																N/A		
13	X201	WT G			0																X										N/A		
14	XSG-01	WT G			0											X						X									N/A		
15	Field Blank	WT G			2	2								X	X	X	X	X	X	X	X	X	X	X	X	X	X				24101590-057		
16	G200 Duplicate	WT G			2	2								X					X	X					X						24101590-058		

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		21 SO	11-4	1550	Jackie Davis	11-4-24	15:50		>	z	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Cop					
SIGNATURE of SAMPLER: [Signature]	DATE Signed: 11-7-79				

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Page: 7 of 7

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0	221 SD	11-4	15:50	Jackie Dawson	11/4/24	15:50		>	z	

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

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:		Page: 1 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker			
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com Rich Speraneo: Rich.Speraneo@vistracorp.com		Address: see Section A		REGULATORY AGENCY	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES GROUND WATER DRINKING WATER	
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:		UST RCRA OTHER	
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:		Site Location STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OL WPE AIR OTHER TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N Analysis Test	Requested Analysis Filtered (Y/N)												Radium 226/228, only			
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	AP2D		WT	G				0											X														N/A
2	G1001		WT	G				2		2									X														24101590-001
3	G1003		WT	G				2		2									X														24101590-002
4	G101		WT	G				0														X											N/A
5	G102		WT	G				0																						X			N/A
6	G103		WT	G				0																						X			N/A
7	G105		WT	G				0																						X			N/A
8	G106		WT	G				0																						X			N/A
9	G107		WT	G				0																									N/A
10	G108		WT	G				0																									N/A
11	G109		WT	G				0																									N/A
12	G110		WT	G				0																									N/A
13	G111		WT	G				0																									N/A
14	G119		WT	G				0																									N/A
15	G120		WT	G				0																									N/A
16	G121		WT	G				0																									N/A
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																				
COF-24Q4 Rev 0			22 SO			11-6	1545	22 SO			11/6	1325	3.7																				

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

PHW 96651
Added HNO3(99964) to
G303 and G314
24 11/7/24

Cooler #1 3.7
#2 4.1
#3 5.7

4169

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invoice information:

Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Invoice Information:		Page: 2 of 3	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Attention: Brian Voelker			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Company Name: Vistra Corp		REGULATORY AGENCY	
		Rich Speraneo: Rich.Speraneo@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES GROUND WATER DRINKING WATER	
Phone: (217) 753-8911		Fax:		Project Reference:		UST RCRA OTHER	
Project Name: COF 2024 GW		Project Manager:		Project Manager:		Site Location	
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:		STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL CL WP WPE AR OTHER TS TSSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=C-CONT)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (17M)										Radium 226/228, only						
					DATE	TIME			Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other		Analysis Test	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G122	WT	G				0									X													N/A					
2	G123	WT	G				0									X												N/A						
3	G124	WT	G				0									X												N/A						
4	G125	WT	G	11/6/24	1022		0									X												N/A						
5	G126	WT	G				0									X												N/A						
6	G151	WT	G				2			2																X		24101590-003						
7	G152	WT	G	11/6/27	1130		2			2																X		24101590-004						
8	G153	WT	G				2			2																X		24101590-005						
9	G154	WT	G				2			2														X	X			24101590-006						
10	G155	WT	G				2			2															X			24101590-007						
11	G200	WT	G				2			2						X			X		X				X			24101590-008						
12	G206	WT	G				2			2						X			X						X			24101590-009						
13	G206D	WT	G				2			2						X			X									24101590-010						
14	G207	WT	G				0																		X			N/A						
15	G208	WT	G				0																		X			N/A						
16	G209	WT	G				2			2						X			X						X			24101590-011						
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																						
COF-24Q4 Rev 0		Sil SO			11-6	1545	Lo-H			11/6	1545	> z																						

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy, Garrett

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed (MM/DD/YY): 11/1/24

Temp in °C

Received on

Custody Sealed Cooler

Samples
intact (Y/N)

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Page: 3 of 7

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COF-24Q4 Rev 0	[Signature]	11-6	1545	[Signature]	11/6	1545	y z

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

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

Invoice Information

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

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 Gap					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 11-6-24				

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

Required Client Information:

Required Project Information:

Section C

Page: 5 of 7

Company: Vistra Corp-Coffeen		Report To: Brian Voelker	Attention: Brian Voelker			
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp	REGULATORY AGENCY		
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com Rich Speraneo: Rich.Speraneo@vistracorp.com	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: COF 2024 GW	Project Manager:	Site Location		
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003	Profile #:	STATE:	IL	

[illegible]

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Justin Cep					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 1-6-74				

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

Section C
Invoice Information:

Page: 6 of 7

Company: Vistra Corp-Coffeeen		Report To: Brian Voelker	Attention: Brian Voelker			
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp	REGULATORY AGENCY		
Coffeeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com Rich Speraneo: Rich.Speraneo@vistracorp.com	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: COF 2024 GW	Project Manager:	Site Location		
Requested Due Date/TAT: 10 day		Project Number: 1940108781-003	Profile #:	STATE:	IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRAINAGE WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WPE AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (S=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test Y/N	Requested Analysis Filtered (Y/N)										Radium 226/228, only							
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃		Methanol	Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G407	WT	G			2		2							X															24101590-053			
2	G410	WT	G	11-6-24	0959	2		2																	X				24101590-054				
3	G411	WT	G	11-6-24	0922	2		2																	X				24101590-055				
4	L201	WT	G			0											X												N/A				
5	NE Riser	WT	G			0										X			X										N/A				
6	R104	WT	G			0											X									X			N/A				
7	R201	WT	G			2		2									X			X		X				X			24101590-056				
8	R205	WT	G	11/6/24	1253	0																				X			N/A				
9	SG-02	WT	G			0									X	X			X	X									N/A				
10	SG-03	WT	G			0									X	X			X	X									N/A				
11	T127	WT	G			0											X												N/A				
12	T128	WT	G			0											X												N/A				
13	X201	WT	G			0											X				X		X						N/A				
14	XSG-01	WT	G			0									X			X											N/A				
15	Field Blank	WT	G			2		2							X	X	X	X	X	X	X	X	X	X	X	X	X		24101590-057				
16	G200 Duplicate	WT	G			2		2								X				X		X				X			24101590-058				
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																					
COF-24Q4 Rev 0		<i>[Signature]</i>			11-6	1545	<i>[Signature]</i>			11/6	1545	> z																					

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 GWP				
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY): 11-6-24				

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-Coffeen**
Address: **134 CIPS Lane**
Coffeen, IL 62017
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: **Sam Davies: samantha.davies@vistracorp.com**
Jason Grieve: Jason.Grieve@vistracorp.com
Purchase Order No.:
Project Name: **COF 2024 GW**
Project Number: **1940106781-003**

Section C

Invoice Information:

Attention: **Brian Voelker**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project Name:
Profile #:

Page: **7** of **7**

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED		PRESERVATIVES		Requested Analysis Filtered (Y/N)																Radium 226/228, only								
ITEM #	SAMPLE ID (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE	MATRIX	CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No / Lab I.D.
1	G217 Duplicate	WT	G				2		2								X		X													24101590-059
2	G301 Duplicate	WT	G				2		2								X				X											24101590-060
3	R201 Duplicate	WT	G				2		2									X							X							24101590-061
4	Equipment Blank 1	WT	G				2		2								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24101590-062
5	Equipment Blank 2	WT	G				2		2								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24101590-063
6	Equipment Blank 3	WT	G				2		2								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24101590-064
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-24Q4 Rev 0				[Signature]		11-6	1545	[Signature]		11/6	1545	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: NA																																
SIGNATURE of SAMPLER: NA																																
												DATE Signed (MM/DD/YY):																				

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:		Page: 1 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Quote Reference:			
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)																Radium 226/228, only
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)		
																																	Project No./ Lab I.D.	
1	AP2D	WT	G	WT	11-7-24	12:45	0																									N/A		
2	G1001	WT	G	WT	11-7-24	11:10	2		2																							24101590-001		
3	G1003	WT	G	WT		DRY	2		2																							24101590-002		
4	G101	WT	G	WT			0									X															N/A			
5	G102	WT	G	WT			0									X															N/A			
6	G103	WT	G	WT			0									X															N/A			
7	G105	WT	G	WT			0									X															N/A			
8	G106	WT	G	WT			0									X															N/A			
9	G107	WT	G	WT			0									X															N/A			
10	G108	WT	G	WT			0									X															N/A			
11	G109	WT	G	WT			0									X															N/A			
12	G110	WT	G	WT			0									X															N/A			
13	G111	WT	G	WT			0									X															N/A			
14	G119	WT	G	WT			0									X															N/A			
15	G120	WT	G	WT			0									X															N/A			
16	G121	WT	G	WT			0									X															N/A			

PH / G1005T
Added HNO₃ (99964) 1/2
to G313. Gm 11/8/24

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Brian Voelker		DATE Signed (MM/DD/YY): 11-7-24	
SIGNATURE of SAMPLER: <i>[Signature]</i>			

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:		Page: 4 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker			
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp		REGULATORY AGENCY	
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com Rich Speraneo: Rich.Speraneo@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES GROUND WATER DRINKING WATER	
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Project Manager:		UST RCRA OTHER	
Requested Due Date/TAT: 10 day		Project Number: 1940106781-003		Profile #:		Site Location STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)														Radium 226/228, only		
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G275	WT	G				2		2																								24101590-022
2	G275D	WT	G				2		2																								24101590-023
3	G276	WT	G				2		2																								24101590-024
4	G277	WT	G			dry	2		2																								24101590-025
5	G278	WT	G				0																										N/A
6	G279	WT	G				2		2																								24101590-026
7	G280	WT	G				2		2																								24101590-027
8	G281	WT	G				2		2																								24101590-028
9	G283	WT	G			11/7/24	12:11		2		2																						24101590-029
10	G284	WT	G				2		2																								24101590-030
11	G285	WT	G				2		2																								24101590-031
12	G301	WT	G			11/7/24	13:18		2		2																						24101590-032
13	G302	WT	G				2		2																								24101590-033
14	G303	WT	G				2		2																								24101590-034
15	G305	WT	G				2		2																								24101590-035
16	G306	WT	G				2		2																								24101590-036
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																			
COF-24Q4 Rev 0		Jung Carroll		11/7/24		1535		Jockie Davis		11/7/24		15:33		> z																			

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS											
COF-24Q4 Rev 0		Jenny Carroll		11/7/24	15:55	Jocelyn Davis		11/7/24	15:33												
SAMPLER NAME AND SIGNATURE										Temp in °C											
PRINT Name of SAMPLER: <i>Brett Gillman</i>																					
SIGNATURE of SAMPLER: <i>Brett Gillman</i>																					
DATE Signed (MM/DD/YY): 11-7-24										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:		Page: 5 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker			
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A		REGULATORY AGENCY	
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Purchase Order No.:		NPDES GROUND WATER DRINKING WATER	
Phone: (217) 753-8911 Fax:		Project Name: COF 2024 GW		Quote Reference:		UST RCRA OTHER	
Requested Due Date/TAT: 10 day		Project Number: 1940108781-003		Project Manager:		Site Location	
				Profile #:		STATE: IL	

Section D Required Client Information		Valid Matrix Codes		COLLECTED		PRESERVATIVES		Requested Analysis Filtered (Y/N)												Radium 226/228, only													
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES												Analysis Test													Project No. / Lab I.D.
								Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104		COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)		
1	G307	WT	G				2		2								X												24101590-037				
2	G307D	WT	G				2		2								X												24101590-038				
3	G308	WT	G				2		2								X												24101590-039				
4	G310	WT	G				2		2								X												24101590-040				
5	G312	WT	G				2		2								X												24101590-041				
6	G313	WT	G	11-7-24	1140		2		2								X												24101590-042				
7	G314	WT	G				2		2								X												24101590-043				
8	G314D	WT	G				2		2								X												24101590-044				
9	G315	WT	G				2		2								X												24101590-045				
10	G316	WT	G				2		2								X												24101590-048				
11	G401	WT	G				2		2								X												24101590-047				
12	G402	WT	G				2		2								X												24101590-048				
13	G403	WT	G				2		2								X												24101590-049				
14	G404	WT	G				2		2								X												24101590-050				
15	G405	WT	G				2		2								X												24101590-051				
16	G406	WT	G				2		2								X												24101590-052				

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
COF-24Q4 Rev 0		Justin Grieve		11/7/24		1533		Jason Davies		11/7/24		15:33			
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 Gp															
SIGNATURE of SAMPLER: Justin Gp															
DATE Signed (MM/DD/YY): 11-7-24															

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:		Page: 6 of 7	
Company: Vistra Corp-Coffeen		Report To: Brian Voelker		Attention: Brian Voelker			
Address: 134 CIPS Lane		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Coffeen, IL 62017		Jason Grieve: Jason.Grieve@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Rich Speraneo: Rich.Speraneo@vistracorp.com		Quote Reference:			
Phone: (217) 753-8911 Fax:		Purchase Order No.:		Project Manager:			
Requested Due Date/TAT: 10 day		Project Name: COF 2024 GW		Profile #:			
		Project Number: 1940106781-003		Site Location		IL	
				STATE:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)														Radium 226/228, only		
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	COF-257-101	COF-257-102	COF-257-103	COF-257-104	COF-811-105	COF-845-101	COF-845-102	COF-845-103	COF-845-104	COF-NE-103	COF-SUP-000	COF-WPCP-102	COF-WPCP-103-104	COF-WPCP-106	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G407		WT	G				2			2								X													24101590-053	
2	G410		WT	G				2			2														X							24101590-054	
3	G411		WT	G				2			2														X							24101590-055	
4	L201		WT	G	11-7-24	1722		0																								N/A	
5	NE Riser		WT	G	11-7-24	1047		0												X												N/A	
6	R104		WT	G				0																								N/A	
7	R201		WT	G				2			2									X					X							24101590-056	
8	R205		WT	G				0																								N/A	
9	SG-02		WT	G				0											X	X			X	X								N/A	
10	SG-03		WT	G				0											X	X			X	X								N/A	
11	T127		WT	G				0																								N/A	
12	T128		WT	G				0																								N/A	
13	* X201 Filter in lab		WT	G	11-7-24	1058		0																	X							N/A	
14	XSG-01		WT	G				0											X													N/A	
15	Field Blank		WT	G	11-7-24	1255		2			2								X	X	X	X	X	X	X	X	X	X	X	X		24101590-057	
16	G200 Duplicate		WT	G				2			2														X							24101590-058	
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION			DATE		TIME		SAMPLE CONDITIONS																
COF-24Q4 Rev 0			J. [Signature]			11/7/24		1533		J. [Signature]			11/7/24		15:33		Y Z																

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
COF-24Q4 Rev 0		Justin G. Davis		11/7/24	1533	Justin G. Davis		11/7/24	15:33				
										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 G. Davis
SIGNATURE of SAMPLER:	Justin G. Davis
DATE Signed (MM/DD/YY):	11-7-24

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

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

Page: 7 of 7

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Tracy Carroll
SIGNATURE of SAMPLER:	
DATE signed (MM/DD/YY):	11/17/24

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 12/11/2024 4:25:26 PM

JOB DESCRIPTION

Radium-226 and Radium-228
24101590

JOB NUMBER

160-56264-1

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



Generated
12/11/2024 4:25:26 PM

Authorized for release by
Erika Smith, Project Manager
erika.smith@et.eurofinsus.com
(314)298-8566

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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1

Client: TekLab, Inc
Project: Radium-226 and Radium-228

Job ID: 160-56264-1

Eurofins St. Louis

CASE NARRATIVE

Client: TekLab, Inc

Project: 24101590

Report Number: 160-56264-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition, all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method.

Eurofins Environment Testing attests to the validity of the laboratory data generated by Eurofins facilities reported herein. All analyses performed by Eurofins Environment Testing facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins Environment Testing's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Calculations are performed before rounding to avoid round-off errors in calculated results.

Proper preservation was noted for the methods performed on these samples, unless otherwise detailed below.

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.

The matrix for the Method Blank and LCS/LCSD is as close to the samples as can be reasonably achieved. Detailed information can be found in the most current revision of the associated SOP.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

No additional analytical or quality issues were noted, other than those described below or in the Definitions/ Glossary page.

Receipt

The samples were received on 11/14/2024 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved. The temperatures of the 6 coolers at receipt time were 19.8°C, 19.8°C, 20.0°C, 20.0°C, 20.0°C and 20.2°C.

Receipt Exceptions

Due to the high volume of samples received, the job was split into three parts with staggered due dates.

Method 903.0 - Radium-226 (GFPC)

Samples 24101590-001 (160-56264-1), 24101590-003 (160-56264-2), 24101590-004 (160-56264-3), 24101590-005 (160-56264-4), 24101590-006 (160-56264-5), 24101590-007 (160-56264-6), 24101590-008 (160-56264-7), 24101590-009 (160-56264-8), 24101590-010 (160-56264-9), 24101590-011 (160-56264-10), 24101590-012 (160-56264-11), 24101590-013 (160-56264-12), 24101590-014 (160-56264-13), 24101590-015 (160-56264-14), 24101590-016 (160-56264-15), 24101590-017 (160-56264-16), 24101590-018 (160-56264-17), 24101590-019 (160-56264-18), 24101590-020 (160-56264-19) and 24101590-021 (160-56264-20) were analyzed for Radium-226 (GFPC). The samples were prepared on 11/18/2024 and analyzed on 12/10/2024.

Method 904.0 - Radium-228 (GFPC)

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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1

Client: TekLab, Inc
Project: Radium-226 and Radium-228

Job ID: 160-56264-1 (Continued)

Eurofins St. Louis

Samples 24101590-001 (160-56264-1), 24101590-003 (160-56264-2), 24101590-004 (160-56264-3), 24101590-005 (160-56264-4), 24101590-006 (160-56264-5), 24101590-007 (160-56264-6), 24101590-008 (160-56264-7), 24101590-009 (160-56264-8), 24101590-010 (160-56264-9), 24101590-011 (160-56264-10), 24101590-012 (160-56264-11), 24101590-013 (160-56264-12), 24101590-014 (160-56264-13), 24101590-015 (160-56264-14), 24101590-016 (160-56264-15), 24101590-017 (160-56264-16), 24101590-018 (160-56264-17), 24101590-019 (160-56264-18), 24101590-020 (160-56264-19) and 24101590-021 (160-56264-20) were analyzed for Radium-228 (GFPC). The samples were prepared on 11/18/2024 and analyzed on 12/2/2024.

The detection goal was not met for the following samples due to the reduced sample volume attributed to the presence of matrix interferences: 24101590-004 (160-56264-3), 24101590-005 (160-56264-4), 24101590-006 (160-56264-5), 24101590-007 (160-56264-6), 24101590-011 (160-56264-10) and 24101590-016 (160-56264-15). Analytical results are reported with the detection limit achieved.

Method Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Samples 24101590-001 (160-56264-1), 24101590-006 (160-56264-5), 24101590-008 (160-56264-7), 24101590-009 (160-56264-8), 24101590-010 (160-56264-9), 24101590-011 (160-56264-10), 24101590-012 (160-56264-11), 24101590-013 (160-56264-12), 24101590-014 (160-56264-13), 24101590-015 (160-56264-14), 24101590-016 (160-56264-15), 24101590-017 (160-56264-16), 24101590-018 (160-56264-17), 24101590-019 (160-56264-18), 24101590-020 (160-56264-19) and 24101590-021 (160-56264-20) were analyzed for Combined Radium-226 and Radium-228. The samples were analyzed on 12/6/2024 and 12/11/2024.

Eurofins St. Louis

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

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.

*Relinquished By	Date/Time /	Received By	Date/Time /
<i>[Signature]</i>	11/14/27 1000	<i>[Signature]</i>	11/18/27 1000
<i>[Signature]</i>	11/14/27 1230	Cheyenne Forrest	11/19/24 1230

Pg 2 of 6

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:	
Project# 24101590				Comments: Please issue reports and invoices via email only Please analyze for Radium 226/228 per methods specified for Vistra/Ramboll projects. Method changes require Teklab authorization. Samples collected from an IL site. Batch QC is required for all analyses requested. Vistra-EDD requested.			
Requested Due Date:		Contact: Elizabeth Hurley Standard TAT		Email: EHurley@TekLabinc.com Billing/PO: 37245		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
	24101590-012	10/31/24 1105	HNO3	Groundwater
	24101590-013	10/31/24 1137	HNO3	Groundwater
	24101590-014	10/31/24 1141	HNO3	Groundwater
	24101590-015	10/31/24 1053	HNO3	Groundwater
	24101590-016	10/31/24 1025	HNO3	Groundwater
	24101590-017	10/31/24 1019	HNO3	Groundwater
	24101590-018	10/30/24 1308	HNO3	Groundwater
	24101590-019	10/29/24 1401	HNO3	Groundwater
	24101590-020	10/31/24 1420	HNO3	Groundwater
	24101590-021	10/31/24 1324	HNO3	Groundwater
	24101590-022	10/30/24 1004	HNO3	Groundwater

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.

Ra226/228
Radium 226
Radium 228

Relinquished By	Date/Time	Received By	Date/Time
S.M. O'Neil	11/14/24 1000	[Signature]	11/18/24 1600
	11/14/24	Cheyenne Forrest	11/19/24 1230

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)

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:		Teklab Sampling Team	QC Level:	2
Project# 24101590						Comments: Please issue reports and invoices via email only						
						Please analyze for Radium 226/228 per methods specified for Vistra/Ramboll projects						
						Method changes require Teklab authorization. Samples collected from an IL site.						
						Batch QC is required for all analyses requested. Vistra-EDD requested						
Contact: Elizabeth Hurley Standard TAT						Email: EHurley@TekLabinc.com						
Requested Due Date: 37245						Billing/PO: 37245						
						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
	24101590-045	11/4/24 1316	HNO3	Groundwater
	24101590-046	11/4/24 1236	HNO3	Groundwater
	24101590-047	11/6/24 1036	HNO3	Groundwater
	24101590-048	11/4/24 1157	HNO3	Groundwater
	24101590-049	11/4/24 1106	HNO3	Groundwater
	24101590-050	11/4/24 1040	HNO3	Groundwater
	24101590-051	11/4/24 1021	HNO3	Groundwater
	24101590-052	11/4/24 1246	HNO3	Groundwater
	24101590-053	11/4/24 1340	HNO3	Groundwater
	24101590-054	11/6/24 0959	HNO3	Groundwater
	24101590-055	11/6/24 0922	HNO3	Groundwater

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.

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	11/14/24	<i>[Signature]</i>	11/14/24
	11/14/24	<i>[Signature]</i>	11/14/24
		Cheyenne Forrest	

Are the samples chilled? YES ☐ NO ☒

With: ☐ Ice ☐ Blue Ice

Preserved in: ☐ Lab ☐ Field

QC Level: 2

re Teklab authorization. Sa

Phone: (618) 344-1004 ext. 33

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	P reservative	Matrix
	24101590-056	10/30/24 1410	HNO3	Groundwater
	24101590-057	11/7/24 1255	HNO3	Aqueous
	24101590-058	10/29/24 1233	HNO3	Groundwater
	24101590-059	10/31/24 1053	HNO3	Groundwater
	24101590-060	11/7/24 1318	HNO3	Groundwater
	24101590-061	10/30/24 1410	HNO3	Groundwater
			HNO3	Aqueous
			HNO3	Aqueous
			HNO3	Aqueous
			HNO3	Groundwater
			HNO3	Groundwater

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.

Date/Time	Received By

Date/Time:

Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-56264-1

SDG Number: 24101590

Login Number: 56264

List Number: 1

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins St. Louis

Definitions/Glossary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
COP-845-101
SDG: 24101590

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-56264-1
SDG: 24101590

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-56264-1	24101590-001	Water	11/07/24 11:18	11/14/24 12:30
160-56264-2	24101590-003	Water	10/30/24 09:16	11/14/24 12:30
160-56264-3	24101590-004	Water	11/06/24 11:30	11/14/24 12:30
160-56264-4	24101590-005	Water	10/30/24 10:45	11/14/24 12:30
160-56264-5	24101590-006	Water	10/30/24 10:21	11/14/24 12:30
160-56264-6	24101590-007	Water	10/30/24 09:51	11/14/24 12:30
160-56264-7	24101590-008	Water	10/29/24 12:33	11/14/24 12:30
160-56264-8	24101590-009	Water	10/31/24 14:12	11/14/24 12:30
160-56264-9	24101590-010	Water	10/31/24 13:52	11/14/24 12:30
160-56264-10	24101590-011	Water	10/31/24 13:04	11/14/24 12:30
160-56264-11	24101590-012	Water	10/31/24 11:05	11/14/24 12:30
160-56264-12	24101590-013	Water	10/31/24 11:37	11/14/24 12:30
160-56264-13	24101590-014	Water	10/31/24 11:41	11/14/24 12:30
160-56264-14	24101590-015	Water	10/31/24 10:53	11/14/24 12:30
160-56264-15	24101590-016	Water	10/31/24 10:25	11/14/24 12:30
160-56264-16	24101590-017	Water	10/31/24 10:19	11/14/24 12:30
160-56264-17	24101590-018	Water	10/30/24 13:08	11/14/24 12:30
160-56264-18	24101590-019	Water	10/29/24 14:01	11/14/24 12:30
160-56264-19	24101590-020	Water	10/31/24 14:20	11/14/24 12:30
160-56264-20	24101590-021	Water	10/31/24 13:24	11/14/24 12:30

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Client Sample ID: 24101590-001

Lab Sample ID: 160-56264-1

Date Collected: 11/07/24 11:18

Matrix: Water

Date Received: 11/14/24 12:30

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	0.319		0.136	0.139	1.00	0.159	pCi/L	11/18/24 09:29	12/10/24 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.4		30 - 110					11/18/24 09:29	12/10/24 10:24	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	1.19		0.588	0.598	1.00	0.822	pCi/L	11/18/24 11:27	12/02/24 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.4		30 - 110					11/18/24 11:27	12/02/24 12:21	1
Y Carrier	74.0		30 - 110					11/18/24 11:27	12/02/24 12:21	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	1.50		0.604	0.614	5.00	0.822	pCi/L		12/06/24 18:04	1

Client Sample ID: 24101590-003

Lab Sample ID: 160-56264-2

Date Collected: 10/30/24 09:16

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0980	U	0.0936	0.0940	1.00	0.146	pCi/L	11/18/24 09:29	12/10/24 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		30 - 110					11/18/24 09:29	12/10/24 10:24	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	0.0900	U	0.344	0.344	1.00	0.621	pCi/L	11/18/24 11:27	12/02/24 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		30 - 110					11/18/24 11:27	12/02/24 12:21	1
Y Carrier	80.4		30 - 110					11/18/24 11:27	12/02/24 12:21	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Client Sample ID: 24101590-004

Lab Sample ID: 160-56264-3

Date Collected: 11/06/24 11:30

Matrix: Water

Date Received: 11/14/24 12:30

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	0.234		0.131	0.133	1.00	0.163	pCi/L	11/18/24 09:29	12/10/24 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		30 - 110					11/18/24 09:29	12/10/24 10:24	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	0.451	U G	0.626	0.627	1.00	1.05	pCi/L	11/18/24 11:27	12/02/24 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		30 - 110					11/18/24 11:27	12/02/24 12:22	1
Y Carrier	71.4		30 - 110					11/18/24 11:27	12/02/24 12:22	1

Client Sample ID: 24101590-005

Lab Sample ID: 160-56264-4

Date Collected: 10/30/24 10:45

Matrix: Water

Date Received: 11/14/24 12:30

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	0.138	U	0.102	0.102	1.00	0.141	pCi/L	11/18/24 09:29	12/10/24 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		30 - 110					11/18/24 09:29	12/10/24 10:24	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	-0.181	U G	0.563	0.563	1.00	1.09	pCi/L	11/18/24 11:27	12/02/24 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		30 - 110					11/18/24 11:27	12/02/24 12:22	1
Y Carrier	63.2		30 - 110					11/18/24 11:27	12/02/24 12:22	1

Client Sample ID: 24101590-006

Lab Sample ID: 160-56264-5

Date Collected: 10/30/24 10:21

Matrix: Water

Date Received: 11/14/24 12:30

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	0.442		0.249	0.252	1.00	0.334	pCi/L	11/18/24 09:29	12/10/24 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.7		30 - 110					11/18/24 09:29	12/10/24 10:24	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Client Sample ID: 24101590-006

Date Collected: 10/30/24 10:21

Date Received: 11/14/24 12:30

Lab Sample ID: 160-56264-5

Matrix: Water

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	0.854	U G	0.769	0.773	1.00	1.21	pCi/L	11/18/24 11:27	12/02/24 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.7		30 - 110					11/18/24 11:27	12/02/24 12:22	1
Y Carrier	75.1		30 - 110					11/18/24 11:27	12/02/24 12:22	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		0.808	0.813	5.00	1.21	pCi/L		12/06/24 18:04	1

Client Sample ID: 24101590-007

Date Collected: 10/30/24 09:51

Date Received: 11/14/24 12:30

Lab Sample ID: 160-56264-6

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	0.227	U	0.190	0.191	1.00	0.283	pCi/L	11/18/24 09:29	12/10/24 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.6		30 - 110					11/18/24 09:29	12/10/24 10:24	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	0.660	U G	1.07	1.07	1.00	1.83	pCi/L	11/18/24 11:27	12/02/24 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.6		30 - 110					11/18/24 11:27	12/02/24 12:22	1
Y Carrier	65.4		30 - 110					11/18/24 11:27	12/02/24 12:22	1

Client Sample ID: 24101590-008

Date Collected: 10/29/24 12:33

Date Received: 11/14/24 12:30

Lab Sample ID: 160-56264-7

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	0.161		0.102	0.104	1.00	0.140	pCi/L	11/18/24 09:29	12/10/24 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					11/18/24 09:29	12/10/24 10:24	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Client Sample ID: 24101590-008

Lab Sample ID: 160-56264-7

Date Collected: 10/29/24 12:33

Matrix: Water

Date Received: 11/14/24 12:30

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	0.433	U	0.477	0.479	1.00	0.781	pCi/L	11/18/24 11:27	12/02/24 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					11/18/24 11:27	12/02/24 12:22	1
Y Carrier	74.8		30 - 110					11/18/24 11:27	12/02/24 12:22	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	0.594	U	0.488	0.490	5.00	0.781	pCi/L		12/06/24 18:04	1

Client Sample ID: 24101590-009

Lab Sample ID: 160-56264-8

Date Collected: 10/31/24 14:12

Matrix: Water

Date Received: 11/14/24 12:30

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	0.121		0.0853	0.0860	1.00	0.119	pCi/L	11/18/24 09:29	12/10/24 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					11/18/24 09:29	12/10/24 10:24	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	-0.106	U	0.333	0.333	1.00	0.659	pCi/L	11/18/24 11:27	12/02/24 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					11/18/24 11:27	12/02/24 12:23	1
Y Carrier	72.1		30 - 110					11/18/24 11:27	12/02/24 12:23	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	0.121	U	0.344	0.344	5.00	0.659	pCi/L		12/06/24 18:04	1

Client Sample ID: 24101590-010

Lab Sample ID: 160-56264-9

Date Collected: 10/31/24 13:52

Matrix: Water

Date Received: 11/14/24 12:30

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	0.132	U	0.111	0.112	1.00	0.168	pCi/L	11/18/24 09:29	12/10/24 10:24	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Client Sample ID: 24101590-010

Lab Sample ID: 160-56264-9

Date Collected: 10/31/24 13:52

Matrix: Water

Date Received: 11/14/24 12:30

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110	11/18/24 09:29	12/10/24 10:24	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Radium-228	-0.0189	U	(2σ+/-) 0.424	(2σ+/-) 0.424	1.00	0.796	pCi/L	11/18/24 11:27	12/02/24 12:23	1
Carrier	%Yield	Qualifier						Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		Limits 30 - 110					11/18/24 11:27	12/02/24 12:23	1
Y Carrier	76.3		30 - 110					11/18/24 11:27	12/02/24 12:23	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	0.132	U	0.438	0.439	5.00	0.796	pCi/L		12/06/24 18:04	1

Client Sample ID: 24101590-011

Lab Sample ID: 160-56264-10

Date Collected: 10/31/24 13:04

Matrix: Water

Date Received: 11/14/24 12:30

Method: EPA 903.0 - Radium-226 (GFPC)

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.249		0.154	0.156	1.00	0.220	pCi/L	11/18/24 09:29	12/10/24 10:25	1
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	83.8		30 - 110							
								Prepared	Analyzed	Dil Fac
								11/18/24 09:29	12/10/24 10:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

			Count Uncert.	Total Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.689	U G	0.771	0.773	1.00	1.26	pCi/L	11/18/24 11:27	12/02/24 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		30 - 110					11/18/24 11:27	12/02/24 12:23	1
Y Carrier	61.3		30 - 110					11/18/24 11:27	12/02/24 12:23	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	0.938	U	0.786	0.789	5.00	1.26	pCi/L		12/11/24 15:48	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Client Sample ID: 24101590-012

Lab Sample ID: 160-56264-11

Date Collected: 10/31/24 11:05

Matrix: Water

Date Received: 11/14/24 12:30

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	0.147		0.102	0.103	1.00	0.146	pCi/L	11/18/24 09:29	12/10/24 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		30 - 110					11/18/24 09:29	12/10/24 10:21	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	-0.183	U	0.452	0.452	1.00	0.884	pCi/L	11/18/24 11:27	12/02/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		30 - 110					11/18/24 11:27	12/02/24 12:19	1
Y Carrier	62.1		30 - 110					11/18/24 11:27	12/02/24 12:19	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	0.147	U	0.463	0.464	5.00	0.884	pCi/L		12/11/24 15:48	1

Client Sample ID: 24101590-013

Lab Sample ID: 160-56264-12

Date Collected: 10/31/24 11:37

Matrix: Water

Date Received: 11/14/24 12:30

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	0.240		0.117	0.119	1.00	0.148	pCi/L	11/18/24 09:29	12/10/24 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.7		30 - 110					11/18/24 09:29	12/10/24 10:21	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	0.0381	U	0.374	0.374	1.00	0.687	pCi/L	11/18/24 11:27	12/02/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.7		30 - 110					11/18/24 11:27	12/02/24 12:19	1
Y Carrier	75.1		30 - 110					11/18/24 11:27	12/02/24 12:19	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	0.278	U	0.392	0.392	5.00	0.687	pCi/L		12/11/24 15:48	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Client Sample ID: 24101590-014

Lab Sample ID: 160-56264-13

Date Collected: 10/31/24 11:41

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0898	0.0905	1.00	0.131	pCi/L	11/18/24 09:29	12/10/24 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					11/18/24 09:29	12/10/24 10:22	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	-0.113	U	0.387	0.387	1.00	0.745	pCi/L	11/18/24 11:27	12/02/24 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					11/18/24 11:27	12/02/24 12:20	1
Y Carrier	67.7		30 - 110					11/18/24 11:27	12/02/24 12:20	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	0.122	U	0.397	0.397	5.00	0.745	pCi/L		12/11/24 15:48	1

Client Sample ID: 24101590-015

Lab Sample ID: 160-56264-14

Date Collected: 10/31/24 10:53

Matrix: Water

Date Received: 11/14/24 12:30

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	0.228		0.106	0.108	1.00	0.126	pCi/L	11/18/24 09:29	12/10/24 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					11/18/24 09:29	12/10/24 10:22	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	0.336	U	0.406	0.407	1.00	0.671	pCi/L	11/18/24 11:27	12/02/24 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					11/18/24 11:27	12/02/24 12:20	1
Y Carrier	71.0		30 - 110					11/18/24 11:27	12/02/24 12:20	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	0.565	U	0.420	0.421	5.00	0.671	pCi/L		12/11/24 15:48	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Client Sample ID: 24101590-016

Lab Sample ID: 160-56264-15

Date Collected: 10/31/24 10:25

Matrix: Water

Date Received: 11/14/24 12:30

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	0.447		0.210	0.214	1.00	0.255	pCi/L	11/18/24 09:29	12/10/24 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					11/18/24 09:29	12/10/24 10:22	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	0.897	U G	0.793	0.797	1.00	1.24	pCi/L	11/18/24 11:27	12/02/24 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					11/18/24 11:27	12/02/24 12:20	1
Y Carrier	67.7		30 - 110					11/18/24 11:27	12/02/24 12:20	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	1.34		0.820	0.825	5.00	1.24	pCi/L		12/11/24 15:48	1

Client Sample ID: 24101590-017

Lab Sample ID: 160-56264-16

Date Collected: 10/31/24 10:19

Matrix: Water

Date Received: 11/14/24 12:30

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	0.146		0.0944	0.0953	1.00	0.130	pCi/L	11/18/24 09:29	12/10/24 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		30 - 110					11/18/24 09:29	12/10/24 10:22	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	0.332	U	0.483	0.484	1.00	0.815	pCi/L	11/18/24 11:27	12/02/24 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		30 - 110					11/18/24 11:27	12/02/24 12:20	1
Y Carrier	61.7		30 - 110					11/18/24 11:27	12/02/24 12:20	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	0.478	U	0.492	0.493	5.00	0.815	pCi/L		12/11/24 15:48	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Client Sample ID: 24101590-018

Lab Sample ID: 160-56264-17

Date Collected: 10/30/24 13:08

Matrix: Water

Date Received: 11/14/24 12:30

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		0.105	0.108	1.00	0.108	pCi/L	11/18/24 09:29	12/10/24 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		30 - 110					11/18/24 09:29	12/10/24 10:22	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	0.439	0.440	1.00	0.740	pCi/L	11/18/24 11:27	12/02/24 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		30 - 110					11/18/24 11:27	12/02/24 12:20	1
Y Carrier	64.7		30 - 110					11/18/24 11:27	12/02/24 12:20	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	0.572	U	0.451	0.453	5.00	0.740	pCi/L		12/11/24 15:48	1

Client Sample ID: 24101590-019

Lab Sample ID: 160-56264-18

Date Collected: 10/29/24 14:01

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0954	U	0.109	0.109	1.00	0.177	pCi/L	11/18/24 09:29	12/10/24 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.1		30 - 110					11/18/24 09:29	12/10/24 10:22	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	0.199	U	0.459	0.459	1.00	0.813	pCi/L	11/18/24 11:27	12/02/24 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.1		30 - 110					11/18/24 11:27	12/02/24 12:20	1
Y Carrier	67.3		30 - 110					11/18/24 11:27	12/02/24 12:20	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	0.295	U	0.472	0.472	5.00	0.813	pCi/L		12/11/24 15:48	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Client Sample ID: 24101590-020

Lab Sample ID: 160-56264-19

Date Collected: 10/31/24 14:20

Matrix: Water

Date Received: 11/14/24 12:30

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	0.107	U	0.0839	0.0844	1.00	0.123	pCi/L	11/18/24 09:29	12/10/24 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		30 - 110					11/18/24 09:29	12/10/24 10:22	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	-0.0410	U	0.323	0.323	1.00	0.618	pCi/L	11/18/24 11:27	12/02/24 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		30 - 110					11/18/24 11:27	12/02/24 12:20	1
Y Carrier	72.9		30 - 110					11/18/24 11:27	12/02/24 12:20	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	0.334	0.334	5.00	0.618	pCi/L		12/11/24 15:48	1

Client Sample ID: 24101590-021

Lab Sample ID: 160-56264-20

Date Collected: 10/31/24 13:24

Matrix: Water

Date Received: 11/14/24 12:30

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	0.156	U	0.124	0.124	1.00	0.183	pCi/L	11/18/24 09:29	12/10/24 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		30 - 110					11/18/24 09:29	12/10/24 10:22	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	0.188	U	0.549	0.550	1.00	0.971	pCi/L	11/18/24 11:27	12/02/24 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		30 - 110					11/18/24 11:27	12/02/24 12:20	1
Y Carrier	76.3		30 - 110					11/18/24 11:27	12/02/24 12:20	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	0.344	U	0.563	0.564	5.00	0.971	pCi/L		12/11/24 15:48	1

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QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-689146/1-A
Matrix: Water
Analysis Batch: 692849

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689146

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.001506	U	0.0473	0.0473	1.00	0.0997	pCi/L	11/18/24 09:29	12/10/24 10:17	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		30 - 110					11/18/24 09:29	12/10/24 10:17	1

Lab Sample ID: LCS 160-689146/2-A
Matrix: Water
Analysis Batch: 692849

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689146

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	9.039		0.974	1.00	0.119	pCi/L	94	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	90.9		30 - 110							

Lab Sample ID: 160-56264-2 DU
Matrix: Water
Analysis Batch: 692926

Client Sample ID: 24101590-003
Prep Type: Total/NA
Prep Batch: 689146

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0980	U	0.06093	U	0.0763	1.00	0.126	pCi/L	0.22	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	78.0		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-689167/1-A
Matrix: Water
Analysis Batch: 691381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689167

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.05415	U	0.357	0.357	1.00	0.669	pCi/L	11/18/24 11:27	12/02/24 12:21	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		30 - 110					11/18/24 11:27	12/02/24 12:21	1
Y Carrier	72.9		30 - 110					11/18/24 11:27	12/02/24 12:21	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-689167/2-A
Matrix: Water
Analysis Batch: 691381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689167

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228		8.30	9.883		1.38	1.00	0.636	pCi/L	119	75 - 125		
	LCS	LCS										
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	90.9		30 - 110									
Y Carrier	74.4		30 - 110									

Lab Sample ID: 160-56264-2 DU
Matrix: Water
Analysis Batch: 691381

Client Sample ID: 24101590-003
Prep Type: Total/NA
Prep Batch: 689167

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit		RER	RER Limit
Radium-228	0.0900	U		0.07778	U	0.386	1.00	0.704	pCi/L		0.02	1
	DU	DU										
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	78.0		30 - 110									
Y Carrier	70.7		30 - 110									

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEE POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-56264-1
SDG: 24101590

Rad

Prep Batch: 689146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-56264-1	24101590-001	Total/NA	Water	PrecSep-21	
160-56264-2	24101590-003	Total/NA	Water	PrecSep-21	
160-56264-3	24101590-004	Total/NA	Water	PrecSep-21	
160-56264-4	24101590-005	Total/NA	Water	PrecSep-21	
160-56264-5	24101590-006	Total/NA	Water	PrecSep-21	
160-56264-6	24101590-007	Total/NA	Water	PrecSep-21	
160-56264-7	24101590-008	Total/NA	Water	PrecSep-21	
160-56264-8	24101590-009	Total/NA	Water	PrecSep-21	
160-56264-9	24101590-010	Total/NA	Water	PrecSep-21	
160-56264-10	24101590-011	Total/NA	Water	PrecSep-21	
160-56264-11	24101590-012	Total/NA	Water	PrecSep-21	
160-56264-12	24101590-013	Total/NA	Water	PrecSep-21	
160-56264-13	24101590-014	Total/NA	Water	PrecSep-21	
160-56264-14	24101590-015	Total/NA	Water	PrecSep-21	
160-56264-15	24101590-016	Total/NA	Water	PrecSep-21	
160-56264-16	24101590-017	Total/NA	Water	PrecSep-21	
160-56264-17	24101590-018	Total/NA	Water	PrecSep-21	
160-56264-18	24101590-019	Total/NA	Water	PrecSep-21	
160-56264-19	24101590-020	Total/NA	Water	PrecSep-21	
160-56264-20	24101590-021	Total/NA	Water	PrecSep-21	
MB 160-689146/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-689146/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-56264-2 DU	24101590-003	Total/NA	Water	PrecSep-21	

Prep Batch: 689167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-56264-1	24101590-001	Total/NA	Water	PrecSep_0	
160-56264-2	24101590-003	Total/NA	Water	PrecSep_0	
160-56264-3	24101590-004	Total/NA	Water	PrecSep_0	
160-56264-4	24101590-005	Total/NA	Water	PrecSep_0	
160-56264-5	24101590-006	Total/NA	Water	PrecSep_0	
160-56264-6	24101590-007	Total/NA	Water	PrecSep_0	
160-56264-7	24101590-008	Total/NA	Water	PrecSep_0	
160-56264-8	24101590-009	Total/NA	Water	PrecSep_0	
160-56264-9	24101590-010	Total/NA	Water	PrecSep_0	
160-56264-10	24101590-011	Total/NA	Water	PrecSep_0	
160-56264-11	24101590-012	Total/NA	Water	PrecSep_0	
160-56264-12	24101590-013	Total/NA	Water	PrecSep_0	
160-56264-13	24101590-014	Total/NA	Water	PrecSep_0	
160-56264-14	24101590-015	Total/NA	Water	PrecSep_0	
160-56264-15	24101590-016	Total/NA	Water	PrecSep_0	
160-56264-16	24101590-017	Total/NA	Water	PrecSep_0	
160-56264-17	24101590-018	Total/NA	Water	PrecSep_0	
160-56264-18	24101590-019	Total/NA	Water	PrecSep_0	
160-56264-19	24101590-020	Total/NA	Water	PrecSep_0	
160-56264-20	24101590-021	Total/NA	Water	PrecSep_0	
MB 160-689167/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-689167/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-56264-2 DU	24101590-003	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)						
		Ba						
Lab Sample ID	Client Sample ID	(30-110)						
160-56264-1	24101590-001	71.4						
160-56264-2	24101590-003	80.0						
160-56264-2 DU	24101590-003	78.0						
160-56264-3	24101590-004	74.9						
160-56264-4	24101590-005	84.3						
160-56264-5	24101590-006	78.7						
160-56264-6	24101590-007	66.6						
160-56264-7	24101590-008	85.1						
160-56264-8	24101590-009	83.5						
160-56264-9	24101590-010	91.9						
160-56264-10	24101590-011	83.8						
160-56264-11	24101590-012	79.5						
160-56264-12	24101590-013	78.7						
160-56264-13	24101590-014	86.1						
160-56264-14	24101590-015	85.1						
160-56264-15	24101590-016	85.3						
160-56264-16	24101590-017	81.5						
160-56264-17	24101590-018	84.6						
160-56264-18	24101590-019	67.1						
160-56264-19	24101590-020	87.8						
160-56264-20	24101590-021	80.5						
LCS 160-689146/2-A	Lab Control Sample	90.9						
MB 160-689146/1-A	Method Blank	96.2						
Tracer/Carrier Legend								
Ba = Ba Carrier								

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba		Y			
Lab Sample ID	Client Sample ID	(30-110)	(30-110)				
160-56264-1	24101590-001	71.4	74.0				
160-56264-2	24101590-003	80.0	80.4				
160-56264-2 DU	24101590-003	78.0	70.7				
160-56264-3	24101590-004	74.9	71.4				
160-56264-4	24101590-005	84.3	63.2				
160-56264-5	24101590-006	78.7	75.1				
160-56264-6	24101590-007	66.6	65.4				
160-56264-7	24101590-008	85.1	74.8				
160-56264-8	24101590-009	83.5	72.1				
160-56264-9	24101590-010	91.9	76.3				
160-56264-10	24101590-011	83.8	61.3				
160-56264-11	24101590-012	79.5	62.1				
160-56264-12	24101590-013	78.7	75.1				
160-56264-13	24101590-014	86.1	67.7				
160-56264-14	24101590-015	85.1	71.0				
160-56264-15	24101590-016	85.3	67.7				
160-56264-16	24101590-017	81.5	61.7				

Eurofins St. Louis

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-1
SDG: 24101590

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)
160-56264-17	24101590-018	84.6	64.7
160-56264-18	24101590-019	67.1	67.3
160-56264-19	24101590-020	87.8	72.9
160-56264-20	24101590-021	80.5	76.3
LCS 160-689167/2-A	Lab Control Sample	90.9	74.4
MB 160-689167/1-A	Method Blank	96.2	72.9

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 12/16/2024 10:08:59 AM

JOB DESCRIPTION

Radium-226 and Radium-228
24101590

JOB NUMBER

160-56264-2

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
12/16/2024 10:08:59 AM

Authorized for release by
Erika Smith, Project Manager
erika.smith@et.eurofinsus.com
(314)298-8566



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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2

Client: TekLab, Inc
Project: Radium-226 and Radium-228

Job ID: 160-56264-2

Eurofins St. Louis

CASE NARRATIVE

Client: TekLab, Inc

Project: 24101590

Report Number: 160-56264-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition, all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method.

Eurofins Environment Testing attests to the validity of the laboratory data generated by Eurofins facilities reported herein. All analyses performed by Eurofins Environment Testing facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins Environment Testing's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Calculations are performed before rounding to avoid round-off errors in calculated results.

Proper preservation was noted for the methods performed on these samples, unless otherwise detailed below.

All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client.

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.

The matrix for the Method Blank and LCS/LCSD is as close to the samples as can be reasonably achieved. Detailed information can be found in the most current revision of the associated SOP.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

No additional analytical or quality issues were noted, other than those described below or in the Definitions/ Glossary page.

Receipt

The samples were received on 11/14/2024 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved. The temperatures of the 6 coolers at receipt time were 19.8°C, 19.8°C, 20.0°C, 20.0°C, 20.0°C and 20.2°C.

Receipt Exceptions

Due to the high volume of samples received, the job was split into three parts with staggered due dates.

Method 903.0 - Radium-226 (GFPC)

Samples 24101590-022 (160-56264-21), 24101590-023 (160-56264-22), 24101590-024 (160-56264-23), 24101590-026 (160-56264-24), 24101590-027 (160-56264-25), 24101590-028 (160-56264-26), 24101590-029 (160-56264-27), 24101590-030 (160-56264-28), 24101590-031 (160-56264-29), 24101590-032 (160-56264-30), 24101590-033 (160-56264-31), 24101590-034 (160-56264-32), 24101590-035 (160-56264-33), 24101590-036 (160-56264-34), 24101590-037 (160-56264-35), 24101590-038 (160-56264-36), 24101590-039 (160-56264-37), 24101590-040 (160-56264-38) and 24101590-041 (160-56264-39) were analyzed for Radium-226 (GFPC). The samples were prepared on 11/18/2024 and analyzed on 12/10/2024.

Eurofins St. Louis

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2

Client: TekLab, Inc
Project: Radium-226 and Radium-228

Job ID: 160-56264-2 (Continued)

Eurofins St. Louis

Method 904.0 - Radium-228 (GFPC)

Samples 24101590-022 (160-56264-21), 24101590-023 (160-56264-22), 24101590-024 (160-56264-23), 24101590-026 (160-56264-24), 24101590-027 (160-56264-25), 24101590-028 (160-56264-26), 24101590-029 (160-56264-27), 24101590-030 (160-56264-28), 24101590-031 (160-56264-29), 24101590-032 (160-56264-30), 24101590-033 (160-56264-31), 24101590-034 (160-56264-32), 24101590-035 (160-56264-33), 24101590-036 (160-56264-34), 24101590-037 (160-56264-35), 24101590-038 (160-56264-36), 24101590-039 (160-56264-37), 24101590-040 (160-56264-38) and 24101590-041 (160-56264-39) were analyzed for Radium-228 (GFPC). The samples were prepared on 11/18/2024 and analyzed on 12/5/2024.

The detection goal was not met for the following samples due to the reduced sample volume attributed to the presence of matrix interferences: 24101590-023 (160-56264-22), 24101590-030 (160-56264-28), 24101590-031 (160-56264-29), 24101590-036 (160-56264-34) and 24101590-037 (160-56264-35). Analytical results are reported with the detection limit achieved.

Method Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Samples 24101590-022 (160-56264-21), 24101590-023 (160-56264-22), 24101590-024 (160-56264-23), 24101590-026 (160-56264-24), 24101590-027 (160-56264-25), 24101590-028 (160-56264-26), 24101590-029 (160-56264-27), 24101590-030 (160-56264-28), 24101590-031 (160-56264-29), 24101590-032 (160-56264-30), 24101590-033 (160-56264-31), 24101590-034 (160-56264-32), 24101590-035 (160-56264-33), 24101590-036 (160-56264-34), 24101590-037 (160-56264-35), 24101590-038 (160-56264-36), 24101590-039 (160-56264-37), 24101590-040 (160-56264-38) and 24101590-041 (160-56264-39) were analyzed for Combined Radium-226 and Radium-228. The samples were analyzed on 12/13/2024 and 12/15/2024.

Eurofins St. Louis

PLEASE NOTE:

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	24101590-001	11/7/24 1118	HNO3	Groundwater
			HNO3	Groundwater
	24101590-003	10/30/24 0916	HNO3	Groundwater
	24101590-004	11/6/24 1130	HNO3	Groundwater
	24101590-005	10/30/24 1045	HNO3	Groundwater
	24101590-006	10/30/24 1021	HNO3	Groundwater
	24101590-007	10/30/24 0951	HNO3	Groundwater
	24101590-008	10/29/24 1233	HNO3	Groundwater
	24101590-009	10/31/24 1412	HNO3	Groundwater
	24101590-010	10/31/24 1352	HNO3	Groundwater
	24101590-011	10/31/24 1304	HNO3	Groundwater

12/16/2024

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					
Project#	24101590		Cooler Temp:	Sampler:	QC Level: 2
Comments: Please issue reports and invoices via email only Please analyze for Radium 226/228 per methods specified for Vistra/Ramboll projects. Method changes require Teklab authorization. Samples collected from an IL site. Batch QC is required for all analyses requested. Vistra-EDD requested.					
Contact:	Elizabeth Hurley		EHurley@TekLabinc.com		
Requested Due Date:	Standard TAT		Billing/PO: 37245		
			Phone: (618) 344-1004 ext. 33		

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

[illegible]

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	11/14/24	<i>[Signature]</i>	11/18/24
	11/15/24		11/19/24
		Cheyenne Forrest	12/30

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Pg 3 of 6

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											
Project#		24101590		Cooler Temp:				Sampler:		Teklab Sampling Team	
QC Level:		2									
Comments: Please issue reports and invoices via email only Please analyze for Radium 226/228 per methods specified for Vistra/Ramboll projects. Method changes require Teklab authorization. Samples collected from an IL site. Batch QC is required for all analyses requested. Vistra-EDD requested											
Contact:		Elizabeth Hurley		Email:		EHurley@TekLabinc.com					
Requested Due Date:		Standard TAT		Billing/PO:		37245					
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
	24101590-023	10/30/24 0942	HNO ₃	Groundwater
	24101590-024	11/4/24 1126	HNO ₃	Groundwater
			HNO ₃	Groundwater
	24101590-026	10/30/24 1121	HNO ₃	Groundwater
	24101590-027	10/30/24 1214	HNO ₃	Groundwater
	24101590-028	10/30/24 1425	HNO ₃	Groundwater
	24101590-029	11/7/24 1211	HNO ₃	Groundwater
	24101590-030	10/31/24 1235	HNO ₃	Groundwater
	24101590-031	10/29/24 1134	HNO ₃	Groundwater
	24101590-032	11/7/24 1318	HNO ₃	Groundwater
	24101590-033	11/6/24 1158	HNO ₃	Groundwater

Ra226/228 Radium 226 Radium 228

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NEELAP 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 NEELAP accreditation for the requested method and/or analytes,
please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any
analyte/method during the life of the contract, you must contact Teklab immediately.

Relinquished By	Date/Time	Received By	Date/Time
Wendy Silvers	11/14/24 1600		11/14/24 1600
	11/14/24	Wendy Silvers	11/14/24 1230
		Cheyenne Forrest	

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)

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											
Project#		24101590		Cooler Temp:				Sampler:		Teklab Sampling Team	
				QC Level:		2					
Comments: Please issue reports and invoices via email only Please analyze for Radium 226/228 per methods specified for Vistra/Ramboll projects. Method changes require Teklab authorization. Samples collected from an IL site. Batch QC is required for all analyses requested. Vistra-EDD requested											
Contact:		Elizabeth Hurley		Email:		EHurley@TekLabinc.com					
Requested Due Date:		Standard TAT		Billing/PO:		37245					
				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
	24101590-045	11/4/24 1316	HNO3	Groundwater
	24101590-046	11/4/24 1236	HNO3	Groundwater
	24101590-047	11/6/24 1036	HNO3	Groundwater
	24101590-048	11/4/24 1157	HNO3	Groundwater
	24101590-049	11/4/24 1106	HNO3	Groundwater
	24101590-050	11/4/24 1040	HNO3	Groundwater
	24101590-051	11/4/24 1021	HNO3	Groundwater
	24101590-052	11/4/24 1246	HNO3	Groundwater
	24101590-053	11/4/24 1340	HNO3	Groundwater
	24101590-054	11/6/24 0959	HNO3	Groundwater
	24101590-055	11/6/24 0922	HNO3	Groundwater

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.

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	11/14/24 1:00	<i>[Signature]</i>	11/14/24 1:00
	11/14/24	<i>[Signature]</i>	11/14/24 1230
		Cheyenne Forrest	

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)

Are the samples chilled? YES ☐ NO ☒

With: ☐ Ice ☐ Blue Ice

Preserved in: ☐ Lab ☐ Field

QC Level: 2

24101590

Email:	EHurley@TekLabInc.com
Billing/PO:	37245

Phone: (618) 344-1004 ext. 33

Please analyze for Radium 226/228 per methods specified for Vistra/Ramboll projects.

Method changes require Teklab authorization. Samples collected from an IL site.

Batch QC is required for all analyses requested. Vistra-EDD requested.

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
	24101590-056	10/30/24 1410	HNO3	Groundwater
	24101590-057	11/7/24 1255	HNO3	Aqueous
	24101590-058	10/29/24 1233	HNO3	Groundwater
	24101590-059	10/31/24 1053	HNO3	Groundwater
	24101590-060	11/7/24 1318	HNO3	Groundwater
	24101590-061	10/30/24 1410	HNO3	Groundwater
			HNO3	Aqueous
			HNO3	Aqueous
			HNO3	Aqueous
			HNO3	Groundwater
			HNO3	Groundwater

***Relinquished By**

Date/Time

Received By

1

Date/Time:

1

Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-56264-2

SDG Number: 24101590

Login Number: 56264

List Number: 1

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins St. Louis

Definitions/Glossary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
COP-845-101
SDG: 24101590

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-56264-21	24101590-022	Water	10/30/24 10:04	11/14/24 12:30
160-56264-22	24101590-023	Water	10/30/24 09:42	11/14/24 12:30
160-56264-23	24101590-024	Water	11/04/24 11:26	11/14/24 12:30
160-56264-24	24101590-026	Water	10/30/24 11:21	11/14/24 12:30
160-56264-25	24101590-027	Water	10/30/24 12:14	11/14/24 12:30
160-56264-26	24101590-028	Water	10/30/24 14:25	11/14/24 12:30
160-56264-27	24101590-029	Water	11/07/24 12:11	11/14/24 12:30
160-56264-28	24101590-030	Water	10/31/24 12:35	11/14/24 12:30
160-56264-29	24101590-031	Water	10/29/24 11:34	11/14/24 12:30
160-56264-30	24101590-032	Water	11/07/24 13:18	11/14/24 12:30
160-56264-31	24101590-033	Water	11/06/24 11:58	11/14/24 12:30
160-56264-32	24101590-034	Water	11/06/24 13:48	11/14/24 12:30
160-56264-33	24101590-035	Water	11/06/24 13:20	11/14/24 12:30
160-56264-34	24101590-036	Water	11/04/24 10:19	11/14/24 12:30
160-56264-35	24101590-037	Water	11/04/24 11:19	11/14/24 12:30
160-56264-36	24101590-038	Water	11/04/24 10:56	11/14/24 12:30
160-56264-37	24101590-039	Water	11/04/24 11:56	11/14/24 12:30
160-56264-38	24101590-040	Water	11/06/24 11:21	11/14/24 12:30
160-56264-39	24101590-041	Water	11/06/24 12:52	11/14/24 12:30

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Client Sample ID: 24101590-022

Lab Sample ID: 160-56264-21

Date Collected: 10/30/24 10:04

Matrix: Water

Date Received: 11/14/24 12:30

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	0.144	U	0.134	0.134	1.00	0.208	pCi/L	11/18/24 09:39	12/10/24 20:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		30 - 110					11/18/24 09:39	12/10/24 20:06	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	0.481	0.481	1.00	0.857	pCi/L	11/18/24 09:42	12/05/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		30 - 110					11/18/24 09:42	12/05/24 12:08	1
Y Carrier	86.0		30 - 110					11/18/24 09:42	12/05/24 12:08	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	0.278	U	0.499	0.499	5.00	0.857	pCi/L		12/13/24 17:32	1

Client Sample ID: 24101590-023

Lab Sample ID: 160-56264-22

Date Collected: 10/30/24 09:42

Matrix: Water

Date Received: 11/14/24 12:30

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	0.223	U	0.234	0.235	1.00	0.372	pCi/L	11/18/24 09:39	12/10/24 20:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	39.2		30 - 110					11/18/24 09:39	12/10/24 20:06	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	0.447	U G	0.986	0.986	1.00	1.73	pCi/L	11/18/24 09:42	12/05/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	39.2		30 - 110					11/18/24 09:42	12/05/24 12:08	1
Y Carrier	79.3		30 - 110					11/18/24 09:42	12/05/24 12:08	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	0.670	U	1.01	1.01	5.00	1.73	pCi/L		12/13/24 17:32	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Client Sample ID: 24101590-024

Lab Sample ID: 160-56264-23

Date Collected: 11/04/24 11:26

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0297	U	0.0771	0.0771	1.00	0.141	pCi/L	11/18/24 09:39	12/10/24 20:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		30 - 110					11/18/24 09:39	12/10/24 20:06	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	-0.0413	U	0.269	0.269	1.00	0.523	pCi/L	11/18/24 09:42	12/05/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		30 - 110					11/18/24 09:42	12/05/24 12:08	1
Y Carrier	81.9		30 - 110					11/18/24 09:42	12/05/24 12:08	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	0.0297	U	0.280	0.280	5.00	0.523	pCi/L		12/13/24 17:32	1

Client Sample ID: 24101590-026

Lab Sample ID: 160-56264-24

Date Collected: 10/30/24 11:21

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0433	U	0.0828	0.0829	1.00	0.147	pCi/L	11/18/24 09:39	12/10/24 20:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		30 - 110					11/18/24 09:39	12/10/24 20:06	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	0.0914	U	0.322	0.322	1.00	0.586	pCi/L	11/18/24 09:42	12/05/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		30 - 110					11/18/24 09:42	12/05/24 12:08	1
Y Carrier	75.1		30 - 110					11/18/24 09:42	12/05/24 12:08	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	0.135	U	0.332	0.333	5.00	0.586	pCi/L		12/13/24 17:32	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Client Sample ID: 24101590-027

Lab Sample ID: 160-56264-25

Date Collected: 10/30/24 12:14

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0509	U	0.0937	0.0938	1.00	0.167	pCi/L	11/18/24 09:39	12/10/24 20:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		30 - 110					11/18/24 09:39	12/10/24 20:06	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	-0.237	U	0.435	0.436	1.00	0.872	pCi/L	11/18/24 09:42	12/05/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		30 - 110					11/18/24 09:42	12/05/24 12:08	1
Y Carrier	85.2		30 - 110					11/18/24 09:42	12/05/24 12:08	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	0.0509	U	0.445	0.446	5.00	0.872	pCi/L		12/13/24 17:32	1

Client Sample ID: 24101590-028

Lab Sample ID: 160-56264-26

Date Collected: 10/30/24 14:25

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0876	U	0.0997	0.100	1.00	0.162	pCi/L	11/18/24 09:39	12/10/24 20:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					11/18/24 09:39	12/10/24 20:06	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	0.131	U	0.388	0.388	1.00	0.685	pCi/L	11/18/24 09:42	12/05/24 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					11/18/24 09:42	12/05/24 12:12	1
Y Carrier	86.4		30 - 110					11/18/24 09:42	12/05/24 12:12	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	0.219	U	0.401	0.401	5.00	0.685	pCi/L		12/13/24 17:32	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Client Sample ID: 24101590-029

Lab Sample ID: 160-56264-27

Date Collected: 11/07/24 12:11

Matrix: Water

Date Received: 11/14/24 12:30

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	0.301		0.136	0.138	1.00	0.159	pCi/L	11/18/24 09:39	12/10/24 20:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.7		30 - 110					11/18/24 09:39	12/10/24 20:06	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	0.805		0.522	0.527	1.00	0.779	pCi/L	11/18/24 09:42	12/05/24 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.7		30 - 110					11/18/24 09:42	12/05/24 12:11	1
Y Carrier	81.5		30 - 110					11/18/24 09:42	12/05/24 12:11	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		0.539	0.545	5.00	0.779	pCi/L		12/13/24 17:32	1

Client Sample ID: 24101590-030

Lab Sample ID: 160-56264-28

Date Collected: 10/31/24 12:35

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0647	U	0.124	0.125	1.00	0.221	pCi/L	11/18/24 09:39	12/10/24 20:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		30 - 110					11/18/24 09:39	12/10/24 20:06	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	0.153	U G	0.762	0.762	1.00	1.35	pCi/L	11/18/24 09:42	12/05/24 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		30 - 110					11/18/24 09:42	12/05/24 12:12	1
Y Carrier	80.4		30 - 110					11/18/24 09:42	12/05/24 12:12	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	0.218	U	0.772	0.772	5.00	1.35	pCi/L		12/13/24 17:32	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Client Sample ID: 24101590-031

Lab Sample ID: 160-56264-29

Date Collected: 10/29/24 11:34

Matrix: Water

Date Received: 11/14/24 12:30

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	0.530		0.200	0.206	1.00	0.215	pCi/L	11/18/24 09:39	12/10/24 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.2		30 - 110					11/18/24 09:39	12/10/24 20:14	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	2.02	G	0.959	0.977	1.00	1.37	pCi/L	11/18/24 09:42	12/05/24 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.2		30 - 110					11/18/24 09:42	12/05/24 12:12	1
Y Carrier	76.3		30 - 110					11/18/24 09:42	12/05/24 12:12	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	2.55		0.980	0.998	5.00	1.37	pCi/L		12/13/24 17:32	1

Client Sample ID: 24101590-032

Lab Sample ID: 160-56264-30

Date Collected: 11/07/24 13:18

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0249	U	0.0822	0.0822	1.00	0.154	pCi/L	11/18/24 09:39	12/10/24 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		30 - 110					11/18/24 09:39	12/10/24 20:14	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	-0.00882	U	0.360	0.360	1.00	0.682	pCi/L	11/18/24 09:42	12/05/24 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		30 - 110					11/18/24 09:42	12/05/24 13:35	1
Y Carrier	83.0		30 - 110					11/18/24 09:42	12/05/24 13:35	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	0.0249	U	0.369	0.369	5.00	0.682	pCi/L		12/13/24 17:32	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Client Sample ID: 24101590-033

Lab Sample ID: 160-56264-31

Date Collected: 11/06/24 11:58

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0648	U	0.101	0.101	1.00	0.173	pCi/L	11/18/24 09:39	12/10/24 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					11/18/24 09:39	12/10/24 20:14	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	0.208	U	0.370	0.371	1.00	0.639	pCi/L	11/18/24 09:42	12/05/24 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					11/18/24 09:42	12/05/24 13:35	1
Y Carrier	83.7		30 - 110					11/18/24 09:42	12/05/24 13:35	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	0.273	U	0.384	0.385	5.00	0.639	pCi/L		12/13/24 17:32	1

Client Sample ID: 24101590-034

Lab Sample ID: 160-56264-32

Date Collected: 11/06/24 13:48

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0642	U	0.0974	0.0975	1.00	0.167	pCi/L	11/18/24 09:39	12/10/24 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		30 - 110					11/18/24 09:39	12/10/24 20:14	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	0.384	U	0.448	0.450	1.00	0.737	pCi/L	11/18/24 09:42	12/05/24 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		30 - 110					11/18/24 09:42	12/05/24 13:36	1
Y Carrier	75.9		30 - 110					11/18/24 09:42	12/05/24 13:36	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	0.448	U	0.458	0.460	5.00	0.737	pCi/L		12/13/24 17:32	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Client Sample ID: 24101590-035

Lab Sample ID: 160-56264-33

Date Collected: 11/06/24 13:20

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0398	U	0.0925	0.0926	1.00	0.167	pCi/L	11/18/24 09:39	12/10/24 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		30 - 110					11/18/24 09:39	12/10/24 20:14	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	-0.0129	U	0.479	0.479	1.00	0.887	pCi/L	11/18/24 09:42	12/05/24 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		30 - 110					11/18/24 09:42	12/05/24 13:36	1
Y Carrier	80.4		30 - 110					11/18/24 09:42	12/05/24 13:36	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	0.0398	U	0.488	0.488	5.00	0.887	pCi/L		12/13/24 17:32	1

Client Sample ID: 24101590-036

Lab Sample ID: 160-56264-34

Date Collected: 11/04/24 10:19

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0960	U	0.132	0.132	1.00	0.223	pCi/L	11/18/24 09:39	12/10/24 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		30 - 110					11/18/24 09:39	12/10/24 20:14	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	0.486	U G	0.627	0.629	1.00	1.04	pCi/L	11/18/24 09:42	12/05/24 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		30 - 110					11/18/24 09:42	12/05/24 13:36	1
Y Carrier	76.6		30 - 110					11/18/24 09:42	12/05/24 13:36	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	0.582	U	0.641	0.643	5.00	1.04	pCi/L		12/13/24 17:32	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Client Sample ID: 24101590-037

Lab Sample ID: 160-56264-35

Date Collected: 11/04/24 11:19

Matrix: Water

Date Received: 11/14/24 12:30

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	0.115	U	0.112	0.112	1.00	0.172	pCi/L	11/18/24 09:39	12/10/24 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					11/18/24 09:39	12/10/24 20:14	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	1.06	G	0.701	0.708	1.00	1.05	pCi/L	11/18/24 09:42	12/05/24 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					11/18/24 09:42	12/05/24 13:36	1
Y Carrier	78.5		30 - 110					11/18/24 09:42	12/05/24 13:36	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	1.18		0.710	0.717	5.00	1.05	pCi/L		12/15/24 11:36	1

Client Sample ID: 24101590-038

Lab Sample ID: 160-56264-36

Date Collected: 11/04/24 10:56

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0545	U	0.0776	0.0778	1.00	0.132	pCi/L	11/18/24 09:39	12/10/24 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		30 - 110					11/18/24 09:39	12/10/24 20:14	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	0.0304	U	0.355	0.355	1.00	0.666	pCi/L	11/18/24 09:42	12/05/24 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		30 - 110					11/18/24 09:42	12/05/24 13:37	1
Y Carrier	78.1		30 - 110					11/18/24 09:42	12/05/24 13:37	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	0.0850	U	0.363	0.363	5.00	0.666	pCi/L		12/15/24 11:36	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Client Sample ID: 24101590-039

Lab Sample ID: 160-56264-37

Date Collected: 11/04/24 11:56

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0415	U	0.0755	0.0756	1.00	0.135	pCi/L	11/18/24 09:39	12/10/24 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		30 - 110					11/18/24 09:39	12/10/24 20:14	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	0.161	U	0.499	0.500	1.00	0.886	pCi/L	11/18/24 09:42	12/05/24 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		30 - 110					11/18/24 09:42	12/05/24 13:37	1
Y Carrier	78.5		30 - 110					11/18/24 09:42	12/05/24 13:37	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	0.202	U	0.505	0.506	5.00	0.886	pCi/L		12/15/24 11:36	1

Client Sample ID: 24101590-040

Lab Sample ID: 160-56264-38

Date Collected: 11/06/24 11:21

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0181	U	0.0700	0.0700	1.00	0.138	pCi/L	11/18/24 09:39	12/10/24 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.4		30 - 110					11/18/24 09:39	12/10/24 20:14	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	2.95		0.782	0.828	1.00	0.874	pCi/L	11/18/24 09:42	12/05/24 13:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.4		30 - 110					11/18/24 09:42	12/05/24 13:38	1
Y Carrier	83.7		30 - 110					11/18/24 09:42	12/05/24 13:38	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	2.96		0.785	0.831	5.00	0.874	pCi/L		12/15/24 11:36	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Client Sample ID: 24101590-041

Lab Sample ID: 160-56264-39

Date Collected: 11/06/24 12:52

Matrix: Water

Date Received: 11/14/24 12:30

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	0.117	U	0.116	0.117	1.00	0.184	pCi/L	11/18/24 09:39	12/10/24 20:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		30 - 110					11/18/24 09:39	12/10/24 20:14	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	2.35		0.686	0.719	1.00	0.782	pCi/L	11/18/24 09:42	12/05/24 13:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		30 - 110					11/18/24 09:42	12/05/24 13:38	1
Y Carrier	79.6		30 - 110					11/18/24 09:42	12/05/24 13:38	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	2.47		0.696	0.728	5.00	0.782	pCi/L		12/15/24 11:36	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-689149/1-A
Matrix: Water
Analysis Batch: 692927

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689149

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.001743	U	0.0776	0.0776	1.00	0.154	pCi/L	11/18/24 09:39	12/10/24 20:06	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					11/18/24 09:39	12/10/24 20:06	1

Lab Sample ID: LCS 160-689149/2-A
Matrix: Water
Analysis Batch: 692927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689149

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	8.866		0.981	1.00	0.160	pCi/L	93	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	85.3		30 - 110							

Lab Sample ID: 160-56264-39 DU
Matrix: Water
Analysis Batch: 692926

Client Sample ID: 24101590-041
Prep Type: Total/NA
Prep Batch: 689149

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.117	U	0.04171	U	0.0736	1.00	0.130	pCi/L	0.40	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	88.1		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-689150/1-A
Matrix: Water
Analysis Batch: 691990

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689150

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.2221	U	0.236	0.236	1.00	0.535	pCi/L	11/18/24 09:42	12/05/24 12:08	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					11/18/24 09:42	12/05/24 12:08	1
Y Carrier	80.7		30 - 110					11/18/24 09:42	12/05/24 12:08	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-689150/2-A
Matrix: Water
Analysis Batch: 691990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689150

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228		8.29	9.021		1.30	1.00	0.608	pCi/L	109	75 - 125		
	LCS	LCS										
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	85.3		30 - 110									
Y Carrier	80.4		30 - 110									

Lab Sample ID: 160-56264-39 DU
Matrix: Water
Analysis Batch: 691936

Client Sample ID: 24101590-041
Prep Type: Total/NA
Prep Batch: 689150

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit		RER	RER Limit
Radium-228	2.35		1.835		0.583	1.00	0.613	pCi/L		0.40	1
	DU	DU									
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	88.1		30 - 110								
Y Carrier	82.6		30 - 110								

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEE POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-56264-2
SDG: 24101590

Rad

Prep Batch: 689149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-56264-21	24101590-022	Total/NA	Water	PrecSep-21	
160-56264-22	24101590-023	Total/NA	Water	PrecSep-21	
160-56264-23	24101590-024	Total/NA	Water	PrecSep-21	
160-56264-24	24101590-026	Total/NA	Water	PrecSep-21	
160-56264-25	24101590-027	Total/NA	Water	PrecSep-21	
160-56264-26	24101590-028	Total/NA	Water	PrecSep-21	
160-56264-27	24101590-029	Total/NA	Water	PrecSep-21	
160-56264-28	24101590-030	Total/NA	Water	PrecSep-21	
160-56264-29	24101590-031	Total/NA	Water	PrecSep-21	
160-56264-30	24101590-032	Total/NA	Water	PrecSep-21	
160-56264-31	24101590-033	Total/NA	Water	PrecSep-21	
160-56264-32	24101590-034	Total/NA	Water	PrecSep-21	
160-56264-33	24101590-035	Total/NA	Water	PrecSep-21	
160-56264-34	24101590-036	Total/NA	Water	PrecSep-21	
160-56264-35	24101590-037	Total/NA	Water	PrecSep-21	
160-56264-36	24101590-038	Total/NA	Water	PrecSep-21	
160-56264-37	24101590-039	Total/NA	Water	PrecSep-21	
160-56264-38	24101590-040	Total/NA	Water	PrecSep-21	
160-56264-39	24101590-041	Total/NA	Water	PrecSep-21	
MB 160-689149/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-689149/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-56264-39 DU	24101590-041	Total/NA	Water	PrecSep-21	

Prep Batch: 689150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-56264-21	24101590-022	Total/NA	Water	PrecSep_0	
160-56264-22	24101590-023	Total/NA	Water	PrecSep_0	
160-56264-23	24101590-024	Total/NA	Water	PrecSep_0	
160-56264-24	24101590-026	Total/NA	Water	PrecSep_0	
160-56264-25	24101590-027	Total/NA	Water	PrecSep_0	
160-56264-26	24101590-028	Total/NA	Water	PrecSep_0	
160-56264-27	24101590-029	Total/NA	Water	PrecSep_0	
160-56264-28	24101590-030	Total/NA	Water	PrecSep_0	
160-56264-29	24101590-031	Total/NA	Water	PrecSep_0	
160-56264-30	24101590-032	Total/NA	Water	PrecSep_0	
160-56264-31	24101590-033	Total/NA	Water	PrecSep_0	
160-56264-32	24101590-034	Total/NA	Water	PrecSep_0	
160-56264-33	24101590-035	Total/NA	Water	PrecSep_0	
160-56264-34	24101590-036	Total/NA	Water	PrecSep_0	
160-56264-35	24101590-037	Total/NA	Water	PrecSep_0	
160-56264-36	24101590-038	Total/NA	Water	PrecSep_0	
160-56264-37	24101590-039	Total/NA	Water	PrecSep_0	
160-56264-38	24101590-040	Total/NA	Water	PrecSep_0	
160-56264-39	24101590-041	Total/NA	Water	PrecSep_0	
MB 160-689150/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-689150/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-56264-39 DU	24101590-041	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba					
Lab Sample ID	Client Sample ID	(30-110)					
160-56264-21	24101590-022	84.1					
160-56264-22	24101590-023	39.2					
160-56264-23	24101590-024	91.4					
160-56264-24	24101590-026	82.3					
160-56264-25	24101590-027	83.3					
160-56264-26	24101590-028	88.4					
160-56264-27	24101590-029	76.7					
160-56264-28	24101590-030	74.2					
160-56264-29	24101590-031	76.2					
160-56264-30	24101590-032	84.3					
160-56264-31	24101590-033	87.6					
160-56264-32	24101590-034	81.3					
160-56264-33	24101590-035	79.2					
160-56264-34	24101590-036	78.2					
160-56264-35	24101590-037	84.8					
160-56264-36	24101590-038	87.1					
160-56264-37	24101590-039	78.5					
160-56264-38	24101590-040	75.4					
160-56264-39	24101590-041	81.8					
160-56264-39 DU	24101590-041	88.1					
LCS 160-689149/2-A	Lab Control Sample	85.3					
MB 160-689149/1-A	Method Blank	88.4					

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba		Y			
Lab Sample ID	Client Sample ID	(30-110)	(30-110)				
160-56264-21	24101590-022	84.1	86.0				
160-56264-22	24101590-023	39.2	79.3				
160-56264-23	24101590-024	91.4	81.9				
160-56264-24	24101590-026	82.3	75.1				
160-56264-25	24101590-027	83.3	85.2				
160-56264-26	24101590-028	88.4	86.4				
160-56264-27	24101590-029	76.7	81.5				
160-56264-28	24101590-030	74.2	80.4				
160-56264-29	24101590-031	76.2	76.3				
160-56264-30	24101590-032	84.3	83.0				
160-56264-31	24101590-033	87.6	83.7				
160-56264-32	24101590-034	81.3	75.9				
160-56264-33	24101590-035	79.2	80.4				
160-56264-34	24101590-036	78.2	76.6				
160-56264-35	24101590-037	84.8	78.5				
160-56264-36	24101590-038	87.1	78.1				
160-56264-37	24101590-039	78.5	78.5				
160-56264-38	24101590-040	75.4	83.7				

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Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-2
SDG: 24101590

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)
160-56264-39	24101590-041	81.8	79.6
160-56264-39 DU	24101590-041	88.1	82.6
LCS 160-689150/2-A	Lab Control Sample	85.3	80.4
MB 160-689150/1-A	Method Blank	88.4	80.7

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 12/16/2024 10:17:02 AM

JOB DESCRIPTION

Radium-226 and Radium-228
24101590

JOB NUMBER

160-56264-3

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



Generated
12/16/2024 10:17:02 AM

Authorized for release by
Erika Smith, Project Manager
erika.smith@et.eurofinsus.com
(314)298-8566



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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3

Client: TekLab, Inc
Project: Radium-226 and Radium-228

Job ID: 160-56264-3

Eurofins St. Louis

CASE NARRATIVE

Client: TekLab, Inc

Project: 24101590

Report Number: 160-56264-3

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition, all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method.

Eurofins Environment Testing attests to the validity of the laboratory data generated by Eurofins facilities reported herein. All analyses performed by Eurofins Environment Testing facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins Environment Testing's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Calculations are performed before rounding to avoid round-off errors in calculated results.

Proper preservation was noted for the methods performed on these samples, unless otherwise detailed below.

All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client.

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.

The matrix for the Method Blank and LCS/LCSD is as close to the samples as can be reasonably achieved. Detailed information can be found in the most current revision of the associated SOP.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

No additional analytical or quality issues were noted, other than those described below or in the Definitions/ Glossary page.

Receipt

The samples were received on 11/14/2024 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved. The temperatures of the 6 coolers at receipt time were 19.8°C, 19.8°C, 20.0°C, 20.0°C, 20.0°C and 20.2°C.

Receipt Exceptions

Due to the high volume of samples received, the job was split into three parts with staggered due dates.

Method 903.0 - Radium-226 (GFPC)

Samples 24101590-042 (160-56264-40), 24101590-043 (160-56264-41), 24101590-044 (160-56264-42), 24101590-045 (160-56264-43), 24101590-046 (160-56264-44), 24101590-047 (160-56264-45), 24101590-048 (160-56264-46), 24101590-049 (160-56264-47), 24101590-050 (160-56264-48), 24101590-051 (160-56264-49), 24101590-052 (160-56264-50), 24101590-053 (160-56264-51), 24101590-054 (160-56264-52), 24101590-055 (160-56264-53), 24101590-056 (160-56264-54), 24101590-057 (160-56264-55), 24101590-058 (160-56264-56), 24101590-059 (160-56264-57), 24101590-060 (160-56264-58) and 24101590-061 (160-56264-59) were analyzed for Radium-226 (GFPC). The samples were prepared on 11/18/2024 and analyzed on 12/10/2024.

Eurofins St. Louis

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3

Client: TekLab, Inc
Project: Radium-226 and Radium-228

Job ID: 160-56264-3 (Continued)

Eurofins St. Louis

Method 904.0 - Radium-228 (GFPC)

Samples 24101590-042 (160-56264-40), 24101590-043 (160-56264-41), 24101590-044 (160-56264-42), 24101590-045 (160-56264-43), 24101590-046 (160-56264-44), 24101590-047 (160-56264-45), 24101590-048 (160-56264-46), 24101590-049 (160-56264-47), 24101590-050 (160-56264-48), 24101590-051 (160-56264-49), 24101590-052 (160-56264-50), 24101590-053 (160-56264-51), 24101590-054 (160-56264-52), 24101590-055 (160-56264-53), 24101590-056 (160-56264-54), 24101590-057 (160-56264-55), 24101590-058 (160-56264-56), 24101590-059 (160-56264-57), 24101590-060 (160-56264-58) and 24101590-061 (160-56264-59) were analyzed for Radium-228 (GFPC). The samples were prepared on 11/18/2024 and analyzed on 12/4/2024 and 12/5/2024.

Method Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Samples 24101590-042 (160-56264-40), 24101590-043 (160-56264-41), 24101590-044 (160-56264-42), 24101590-045 (160-56264-43), 24101590-046 (160-56264-44), 24101590-047 (160-56264-45), 24101590-048 (160-56264-46), 24101590-049 (160-56264-47), 24101590-050 (160-56264-48), 24101590-051 (160-56264-49), 24101590-052 (160-56264-50), 24101590-053 (160-56264-51), 24101590-054 (160-56264-52), 24101590-055 (160-56264-53), 24101590-056 (160-56264-54), 24101590-057 (160-56264-55), 24101590-058 (160-56264-56), 24101590-059 (160-56264-57), 24101590-060 (160-56264-58) and 24101590-061 (160-56264-59) were analyzed for Combined Radium-226 and Radium-228. The samples were analyzed on 12/15/2024.

Eurofins St. Louis

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: Teklab Sampling Team

Project#	24101590

Comments:	Please issue reports and invoices via email only
	Please analyze for Radium 226/228 per methods specified for Vistra/Ramboll projects
	Method changes require Teklab authorization. Samples collected from an IL site.
	Batch QC is required for all analyses requested. Vistra-EDD requested

Requested Due Date:	Standard TAT	Email:	EHurley@TekLabInc.com
Billing/PO:			37245

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
	24101590-001	11/7/24 1118	HNO3	Groundwater
			HNO3	Groundwater
	24101590-003	10/30/24 0916	HNO3	Groundwater
	24101590-004	11/6/24 1130	HNO3	Groundwater
	24101590-005	10/30/24 1045	HNO3	Groundwater
	24101590-006	10/30/24 1021	HNO3	Groundwater
	24101590-007	10/30/24 0951	HNO3	Groundwater
	24101590-008	10/29/24 1233	HNO3	Groundwater
	24101590-009	10/31/24 1412	HNO3	Groundwater
	24101590-010	10/31/24 1352	HNO3	Groundwater
	24101590-011	10/31/24 1304	HNO3	Groundwater



160-56264 Chain of Custody

*Relinquished By	Date/Time /	Received By	Date/Time /
<i>[Signature]</i>	11/14/27 1000	<i>[Signature]</i>	11/18/27 1000
<i>[Signature]</i>	11/14/27 1230	Cheyenne Forrest	11/19/24 1230

Are the samples chilled? YES ☐ NO ☒

With: ☐ Ice ☐ Blue Ice

Preserved in: ☐ Lab ☐ Field

QC Level:

mples collected from

Phone: (618) 344-1004 ext. 33

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

[illegible][illegible]

PLEASE NOTE:

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	24101590-023	10/30/24 0942	HNO3	Groundwater
	24101590-024	11/4/24 1126	HNO3	Groundwater
			HNO3	Groundwater
	24101590-026	10/30/24 1121	HNO3	Groundwater
	24101590-027	10/30/24 1214	HNO3	Groundwater
	24101590-028	10/30/24 1425	HNO3	Groundwater
	24101590-029	11/7/24 1211	HNO3	Groundwater
	24101590-030	10/31/24 1235	HNO3	Groundwater
	24101590-031	10/29/24 1134	HNO3	Groundwater
	24101590-032	11/7/24 1318	HNO3	Groundwater
	24101590-033	11/6/24 1158	HNO3	Groundwater

Relinquished By	Date/Time	Received By	Date/Time
Wendy Silvers	11/14/27 1000 11/14/27	[Signature]	11/14/27 1000
		Cheyenne Forest	11/18/24 1230

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 ☐ Lab ☐ Field
Teklab Inc 5445 Horseshoe Lake Road Collinsville, IL 62234				
Project#	24101590		Cooler Temp:	Sampler:
			QC Level: 2	
	Comments: Please Issue reports and invoices via email only			
	Please analyze for Radium 226/228 per methods specified for Vistra/Ramboll projects.			
	Method changes require Teklab authorization. Samples collected from an IL site.			
	Batch QC is required for all analyses requested. Vistra-EDD requested.			
Contact:	Elizabeth Hurley	Email:	EHurley@TekLabInc.com	
Requested Due Date:	Standard TAT	Billing/PO:	37245	
		Phone:	(618) 344-1004 ext. 33	

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

[illegible]

Relinquished By	Date/Time	Received By	Date/Time
Mary Oliver	11/17/29	[Signature]	11/18/29
	11/18/29	Gheyenne Forrest	1230

Pg 5 of 6

Are the samples chilled? YES ☐ NO ☒

With: ☐ Ice ☐ Blue Ice

Preserved in: ☐ Lab ☐ Field

Cooler Temp:		Sampler:	Teklab Sampling Team

Comments:	Please issue reports and invoices via email only
	Please analyze for Radium 226/228 per methods specified for Vistra/Ramboll projects.
	Method changes require Teklab authorization. Samples collected from an IL site.
	Batch QC is required for all analyses requested. Vistra-EDD requested

Phone: (618) 344-1004 ext. 33

NE LAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NE LAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	24101590-045	11/4/24 1316	HNO3	Groundwater
	24101590-046	11/4/24 1236	HNO3	Groundwater
	24101590-047	11/6/24 1036	HNO3	Groundwater
	24101590-048	11/4/24 1157	HNO3	Groundwater
	24101590-049	11/4/24 1106	HNO3	Groundwater
	24101590-050	11/4/24 1040	HNO3	Groundwater
	24101590-051	11/4/24 1021	HNO3	Groundwater
	24101590-052	11/4/24 1246	HNO3	Groundwater
	24101590-053	11/4/24 1340	HNO3	Groundwater
	24101590-054	11/6/24 0959	HNO3	Groundwater
	24101590-055	11/6/24 0922	HNO3	Groundwater

***Relinquished By**

*Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	11/14/24 1:00	<i>[Signature]</i>	11/14/24 1:00
	11/14/24	<i>[Signature]</i>	11/14/24 1230
		Cheyenne Forrest	

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

PLEASE NOTE:

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	24101590-056	10/30/24 1410	HNO3	Groundwater
	24101590-057	11/7/24 1255	HNO3	Aqueous
	24101590-058	10/29/24 1233	HNO3	Groundwater
	24101590-059	10/31/24 1053	HNO3	Groundwater
	24101590-060	11/7/24 1318	HNO3	Groundwater
	24101590-061	10/30/24 1410	HNO3	Groundwater
			HNO3	Aqueous
			HNO3	Aqueous
			HNO3	Aqueous
			HNO3	Groundwater
			HNO3	Groundwater

*Relinquished By	Date/Time	Received By	Date/Time
[Signature]	11/17/04 12:00	[Signature]	11/17/04 12:00
	11/18/04	Cheyenne Forrest	11/19/04 12:30

Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-56264-3

SDG Number: 24101590

Login Number: 56264

List Number: 1

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins St. Louis

Definitions/Glossary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
COP-845-100
SDG: 24101590

Qualifiers

Rad

Qualifier	Qualifier Description
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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-56264-40	24101590-042	Water	11/07/24 11:40	11/14/24 12:30
160-56264-41	24101590-043	Water	11/06/24 14:11	11/14/24 12:30
160-56264-42	24101590-044	Water	11/04/24 13:50	11/14/24 12:30
160-56264-43	24101590-045	Water	11/04/24 13:16	11/14/24 12:30
160-56264-44	24101590-046	Water	11/04/24 12:36	11/14/24 12:30
160-56264-45	24101590-047	Water	11/06/24 10:36	11/14/24 12:30
160-56264-46	24101590-048	Water	11/04/24 11:57	11/14/24 12:30
160-56264-47	24101590-049	Water	11/04/24 11:06	11/14/24 12:30
160-56264-48	24101590-050	Water	11/04/24 10:40	11/14/24 12:30
160-56264-49	24101590-051	Water	11/04/24 10:21	11/14/24 12:30
160-56264-50	24101590-052	Water	11/04/24 12:46	11/14/24 12:30
160-56264-51	24101590-053	Water	11/04/24 13:40	11/14/24 12:30
160-56264-52	24101590-054	Water	11/06/24 09:59	11/14/24 12:30
160-56264-53	24101590-055	Water	11/06/24 09:22	11/14/24 12:30
160-56264-54	24101590-056	Water	10/30/24 14:10	11/14/24 12:30
160-56264-55	24101590-057	Water	11/07/24 12:55	11/14/24 12:30
160-56264-56	24101590-058	Water	10/29/24 12:33	11/14/24 12:30
160-56264-57	24101590-059	Water	10/31/24 10:53	11/14/24 12:30
160-56264-58	24101590-060	Water	11/07/24 13:18	11/14/24 12:30
160-56264-59	24101590-061	Water	10/30/24 14:10	11/14/24 12:30

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Client Sample ID: 24101590-042

Lab Sample ID: 160-56264-40

Date Collected: 11/07/24 11:40

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0995	U	0.0983	0.0987	1.00	0.154	pCi/L	11/18/24 09:39	12/10/24 20:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		30 - 110					11/18/24 09:39	12/10/24 20:15	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	3.98		0.725	0.812	1.00	0.607	pCi/L	11/18/24 09:42	12/05/24 13:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		30 - 110					11/18/24 09:42	12/05/24 13:38	1
Y Carrier	86.4		30 - 110					11/18/24 09:42	12/05/24 13:38	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	4.08		0.732	0.818	5.00	0.607	pCi/L		12/15/24 11:38	1

Client Sample ID: 24101590-043

Lab Sample ID: 160-56264-41

Date Collected: 11/06/24 14:11

Matrix: Water

Date Received: 11/14/24 12:30

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	0.265		0.111	0.114	1.00	0.116	pCi/L	11/18/24 09:43	12/10/24 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		30 - 110					11/18/24 09:43	12/10/24 08:11	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	1.17		0.458	0.470	1.00	0.587	pCi/L	11/18/24 09:46	12/04/24 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		30 - 110					11/18/24 09:46	12/04/24 11:49	1
Y Carrier	83.4		30 - 110					11/18/24 09:46	12/04/24 11:49	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	1.44		0.471	0.484	5.00	0.587	pCi/L		12/15/24 11:38	1

Eurofins St. Louis

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Client Sample ID: 24101590-044

Lab Sample ID: 160-56264-42

Date Collected: 11/04/24 13:50

Matrix: Water

Date Received: 11/14/24 12:30

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	0.883		0.196	0.212	1.00	0.160	pCi/L	11/18/24 09:43	12/10/24 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		30 - 110					11/18/24 09:43	12/10/24 08:11	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	0.908		0.438	0.446	1.00	0.615	pCi/L	11/18/24 09:46	12/04/24 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		30 - 110					11/18/24 09:46	12/04/24 11:49	1
Y Carrier	82.6		30 - 110					11/18/24 09:46	12/04/24 11:49	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	1.79		0.480	0.494	5.00	0.615	pCi/L		12/15/24 11:38	1

Client Sample ID: 24101590-045

Lab Sample ID: 160-56264-43

Date Collected: 11/04/24 13:16

Matrix: Water

Date Received: 11/14/24 12:30

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	0.169		0.0974	0.0986	1.00	0.125	pCi/L	11/18/24 09:43	12/10/24 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					11/18/24 09:43	12/10/24 08:11	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	1.53		0.476	0.496	1.00	0.546	pCi/L	11/18/24 09:46	12/04/24 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					11/18/24 09:46	12/04/24 11:49	1
Y Carrier	84.1		30 - 110					11/18/24 09:46	12/04/24 11:49	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	1.70		0.486	0.506	5.00	0.546	pCi/L		12/15/24 11:38	1

Eurofins St. Louis

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Client Sample ID: 24101590-046

Lab Sample ID: 160-56264-44

Date Collected: 11/04/24 12:36

Matrix: Water

Date Received: 11/14/24 12:30

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	0.154	U	0.132	0.133	1.00	0.200	pCi/L	11/18/24 09:43	12/10/24 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					11/18/24 09:43	12/10/24 08:11	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	1.36		0.602	0.615	1.00	0.816	pCi/L	11/18/24 09:46	12/04/24 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					11/18/24 09:46	12/04/24 11:49	1
Y Carrier	82.2		30 - 110					11/18/24 09:46	12/04/24 11:49	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	1.51		0.616	0.629	5.00	0.816	pCi/L		12/15/24 11:38	1

Client Sample ID: 24101590-047

Lab Sample ID: 160-56264-45

Date Collected: 11/06/24 10:36

Matrix: Water

Date Received: 11/14/24 12:30

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	0.151		0.0893	0.0903	1.00	0.115	pCi/L	11/18/24 09:43	12/10/24 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.7		30 - 110					11/18/24 09:43	12/10/24 08:11	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	1.45		0.413	0.434	1.00	0.441	pCi/L	11/18/24 09:46	12/04/24 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.7		30 - 110					11/18/24 09:46	12/04/24 11:50	1
Y Carrier	88.2		30 - 110					11/18/24 09:46	12/04/24 11:50	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		0.423	0.443	5.00	0.441	pCi/L		12/15/24 11:38	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Client Sample ID: 24101590-048

Lab Sample ID: 160-56264-46

Date Collected: 11/04/24 11:57

Matrix: Water

Date Received: 11/14/24 12:30

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	0.240		0.115	0.117	1.00	0.141	pCi/L	11/18/24 09:43	12/10/24 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110					11/18/24 09:43	12/10/24 08:11	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	-0.0910	U	0.296	0.296	1.00	0.573	pCi/L	11/18/24 09:46	12/04/24 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110					11/18/24 09:46	12/04/24 11:50	1
Y Carrier	86.7		30 - 110					11/18/24 09:46	12/04/24 11:50	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	0.240	U	0.318	0.318	5.00	0.573	pCi/L		12/15/24 11:38	1

Client Sample ID: 24101590-049

Lab Sample ID: 160-56264-47

Date Collected: 11/04/24 11:06

Matrix: Water

Date Received: 11/14/24 12:30

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	0.110	U	0.109	0.109	1.00	0.173	pCi/L	11/18/24 09:43	12/10/24 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		30 - 110					11/18/24 09:43	12/10/24 08:11	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	0.199	U	0.341	0.342	1.00	0.583	pCi/L	11/18/24 09:46	12/04/24 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		30 - 110					11/18/24 09:46	12/04/24 11:50	1
Y Carrier	85.6		30 - 110					11/18/24 09:46	12/04/24 11:50	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	0.358	0.359	5.00	0.583	pCi/L		12/15/24 11:38	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Client Sample ID: 24101590-050

Lab Sample ID: 160-56264-48

Date Collected: 11/04/24 10:40

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0874	U	0.0799	0.0803	1.00	0.120	pCi/L	11/18/24 09:43	12/10/24 08:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		30 - 110					11/18/24 09:43	12/10/24 08:08	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	0.963		0.471	0.479	1.00	0.651	pCi/L	11/18/24 09:46	12/04/24 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		30 - 110					11/18/24 09:46	12/04/24 11:50	1
Y Carrier	79.3		30 - 110					11/18/24 09:46	12/04/24 11:50	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	1.05		0.478	0.486	5.00	0.651	pCi/L		12/15/24 11:38	1

Client Sample ID: 24101590-051

Lab Sample ID: 160-56264-49

Date Collected: 11/04/24 10:21

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0987	0.0993	1.00	0.151	pCi/L	11/18/24 09:43	12/10/24 08:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		30 - 110					11/18/24 09:43	12/10/24 08:08	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	0.536	U	0.362	0.366	1.00	0.538	pCi/L	11/18/24 09:46	12/04/24 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		30 - 110					11/18/24 09:46	12/04/24 11:50	1
Y Carrier	84.1		30 - 110					11/18/24 09:46	12/04/24 11:50	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		0.375	0.379	5.00	0.538	pCi/L		12/15/24 11:38	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Client Sample ID: 24101590-052

Lab Sample ID: 160-56264-50

Date Collected: 11/04/24 12:46

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0428	U	0.0623	0.0624	1.00	0.107	pCi/L	11/18/24 09:43	12/10/24 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					11/18/24 09:43	12/10/24 08:11	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	0.403	U	0.336	0.338	1.00	0.523	pCi/L	11/18/24 09:46	12/04/24 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					11/18/24 09:46	12/04/24 11:50	1
Y Carrier	86.0		30 - 110					11/18/24 09:46	12/04/24 11:50	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	0.446	U	0.342	0.344	5.00	0.523	pCi/L		12/15/24 11:38	1

Client Sample ID: 24101590-053

Lab Sample ID: 160-56264-51

Date Collected: 11/04/24 13:40

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0857	U	0.0814	0.0818	1.00	0.125	pCi/L	11/18/24 09:43	12/10/24 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		30 - 110					11/18/24 09:43	12/10/24 08:11	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	-0.239	U	0.295	0.296	1.00	0.635	pCi/L	11/18/24 09:46	12/04/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		30 - 110					11/18/24 09:46	12/04/24 11:51	1
Y Carrier	78.1		30 - 110					11/18/24 09:46	12/04/24 11:51	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	0.0857	U	0.306	0.307	5.00	0.635	pCi/L		12/15/24 11:38	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Client Sample ID: 24101590-054

Lab Sample ID: 160-56264-52

Date Collected: 11/06/24 09:59

Matrix: Water

Date Received: 11/14/24 12:30

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	0.289		0.134	0.136	1.00	0.146	pCi/L	11/18/24 09:43	12/10/24 10:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					11/18/24 09:43	12/10/24 10:10	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	3.54		0.751	0.819	1.00	0.689	pCi/L	11/18/24 09:46	12/04/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					11/18/24 09:46	12/04/24 11:51	1
Y Carrier	84.5		30 - 110					11/18/24 09:46	12/04/24 11:51	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	3.83		0.763	0.830	5.00	0.689	pCi/L		12/15/24 11:38	1

Client Sample ID: 24101590-055

Lab Sample ID: 160-56264-53

Date Collected: 11/06/24 09:22

Matrix: Water

Date Received: 11/14/24 12:30

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	0.126		0.0846	0.0854	1.00	0.113	pCi/L	11/18/24 09:43	12/10/24 10:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					11/18/24 09:43	12/10/24 10:10	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	0.0157	U	0.278	0.278	1.00	0.520	pCi/L	11/18/24 09:46	12/04/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					11/18/24 09:46	12/04/24 11:51	1
Y Carrier	87.1		30 - 110					11/18/24 09:46	12/04/24 11:51	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	0.141	U	0.291	0.291	5.00	0.520	pCi/L		12/15/24 11:38	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Client Sample ID: 24101590-056

Lab Sample ID: 160-56264-54

Date Collected: 10/30/24 14:10

Matrix: Water

Date Received: 11/14/24 12:30

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	0.203	U	0.148	0.149	1.00	0.219	pCi/L	11/18/24 09:43	12/10/24 10:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		30 - 110					11/18/24 09:43	12/10/24 10:10	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	0.735		0.487	0.491	1.00	0.726	pCi/L	11/18/24 09:46	12/04/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		30 - 110					11/18/24 09:46	12/04/24 11:51	1
Y Carrier	86.0		30 - 110					11/18/24 09:46	12/04/24 11:51	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	0.938		0.509	0.513	5.00	0.726	pCi/L		12/15/24 11:38	1

Client Sample ID: 24101590-057

Lab Sample ID: 160-56264-55

Date Collected: 11/07/24 12:55

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0185	U	0.0840	0.0840	1.00	0.159	pCi/L	11/18/24 09:43	12/10/24 10:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		30 - 110					11/18/24 09:43	12/10/24 10:10	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	0.406	0.410	1.00	0.609	pCi/L	11/18/24 09:46	12/04/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		30 - 110					11/18/24 09:46	12/04/24 11:51	1
Y Carrier	85.6		30 - 110					11/18/24 09:46	12/04/24 11:51	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	0.615		0.415	0.419	5.00	0.609	pCi/L		12/15/24 11:38	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Client Sample ID: 24101590-058

Lab Sample ID: 160-56264-56

Date Collected: 10/29/24 12:33

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0982	U	0.0787	0.0792	1.00	0.112	pCi/L	11/18/24 09:43	12/10/24 10:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					11/18/24 09:43	12/10/24 10:09	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	0.439	U	0.337	0.339	1.00	0.513	pCi/L	11/18/24 09:46	12/04/24 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					11/18/24 09:46	12/04/24 11:51	1
Y Carrier	87.5		30 - 110					11/18/24 09:46	12/04/24 11:51	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	0.537		0.346	0.348	5.00	0.513	pCi/L		12/15/24 11:38	1

Client Sample ID: 24101590-059

Lab Sample ID: 160-56264-57

Date Collected: 10/31/24 10:53

Matrix: Water

Date Received: 11/14/24 12:30

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	0.302		0.118	0.121	1.00	0.120	pCi/L	11/18/24 09:43	12/10/24 10:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		30 - 110					11/18/24 09:43	12/10/24 10:09	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	0.275	U	0.340	0.341	1.00	0.563	pCi/L	11/18/24 09:46	12/04/24 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		30 - 110					11/18/24 09:46	12/04/24 11:52	1
Y Carrier	78.1		30 - 110					11/18/24 09:46	12/04/24 11:52	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	0.576		0.360	0.362	5.00	0.563	pCi/L		12/15/24 11:38	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Client Sample ID: 24101590-060

Lab Sample ID: 160-56264-58

Date Collected: 11/07/24 13:18

Matrix: Water

Date Received: 11/14/24 12:30

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	0.0733	U	0.0666	0.0670	1.00	0.0983	pCi/L	11/18/24 09:43	12/10/24 10:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					11/18/24 09:43	12/10/24 10:09	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	0.0374	U	0.321	0.321	1.00	0.589	pCi/L	11/18/24 09:46	12/04/24 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					11/18/24 09:46	12/04/24 11:56	1
Y Carrier	82.2		30 - 110					11/18/24 09:46	12/04/24 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	0.111	U	0.328	0.328	5.00	0.589	pCi/L		12/15/24 11:38	1

Client Sample ID: 24101590-061

Lab Sample ID: 160-56264-59

Date Collected: 10/30/24 14:10

Matrix: Water

Date Received: 11/14/24 12:30

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	0.325		0.140	0.143	1.00	0.151	pCi/L	11/18/24 09:43	12/10/24 10:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					11/18/24 09:43	12/10/24 10:11	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	0.170	U	0.483	0.483	1.00	0.849	pCi/L	11/18/24 09:46	12/04/24 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					11/18/24 09:46	12/04/24 11:56	1
Y Carrier	82.6		30 - 110					11/18/24 09:46	12/04/24 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	0.495	U	0.503	0.504	5.00	0.849	pCi/L		12/15/24 11:38	1

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QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-689149/1-A
Matrix: Water
Analysis Batch: 692927

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689149

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.001743	U	0.0776	0.0776	1.00	0.154	pCi/L	11/18/24 09:39	12/10/24 20:06	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					11/18/24 09:39	12/10/24 20:06	1

Lab Sample ID: LCS 160-689149/2-A
Matrix: Water
Analysis Batch: 692927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689149

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	8.866		0.981	1.00	0.160	pCi/L	93	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	85.3		30 - 110							

Lab Sample ID: MB 160-689151/1-A
Matrix: Water
Analysis Batch: 692926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689151

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01816	U	0.0595	0.0595	1.00	0.114	pCi/L	11/18/24 09:43	12/10/24 08:11	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.7		30 - 110					11/18/24 09:43	12/10/24 08:11	1

Lab Sample ID: LCS 160-689151/2-A
Matrix: Water
Analysis Batch: 692926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689151

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	9.652		1.04	1.00	0.120	pCi/L	101	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	93.9		30 - 110							

Lab Sample ID: 160-56264-48 DU
Matrix: Water
Analysis Batch: 692849

Client Sample ID: 24101590-050
Prep Type: Total/NA
Prep Batch: 689151

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0874	U	0.07573	U	0.100	1.00	0.167	pCi/L	0.06	1

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QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEE POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 160-56264-48 DU
Matrix: Water
Analysis Batch: 692849

Client Sample ID: 24101590-050
Prep Type: Total/NA
Prep Batch: 689151

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	87.8		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-689150/1-A
Matrix: Water
Analysis Batch: 691990

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689150

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.2221	U	0.236	0.236	1.00	0.535	pCi/L	11/18/24 09:42	12/05/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					11/18/24 09:42	12/05/24 12:08	1
Y Carrier	80.7		30 - 110					11/18/24 09:42	12/05/24 12:08	1

Lab Sample ID: LCS 160-689150/2-A
Matrix: Water
Analysis Batch: 691990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689150

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.29	9.021		1.30	1.00	0.608	pCi/L	109	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	85.3		30 - 110						
Y Carrier	80.4		30 - 110						

Lab Sample ID: MB 160-689152/1-A
Matrix: Water
Analysis Batch: 691855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689152

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2650	U	0.296	0.297	1.00	0.484	pCi/L	11/18/24 09:46	12/04/24 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.7		30 - 110					11/18/24 09:46	12/04/24 11:49	1
Y Carrier	85.2		30 - 110					11/18/24 09:46	12/04/24 11:49	1

Lab Sample ID: LCS 160-689152/2-A
Matrix: Water
Analysis Batch: 691855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689152

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.29	9.524		1.27	1.00	0.474	pCi/L	115	75 - 125

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QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-689152/2-A
Matrix: Water
Analysis Batch: 691855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689152

LCS LCS			
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.9		30 - 110
Y Carrier	88.2		30 - 110

Lab Sample ID: 160-56264-48 DU
Matrix: Water
Analysis Batch: 691855

Client Sample ID: 24101590-050
Prep Type: Total/NA
Prep Batch: 689152

		DU DU		Total					RER	
Analyte	Sample Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
Radium-228	0.963		1.398		0.471	1.00	0.514	pCi/L	0.46	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	87.8		30 - 110							
Y Carrier	83.0		30 - 110							

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEE POWER PLANT, ASH POND NO. 1

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-56264-3
SDG: 24101590

Rad

Prep Batch: 689149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-56264-40	24101590-042	Total/NA	Water	PrecSep-21	
MB 160-689149/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-689149/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 689150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-56264-40	24101590-042	Total/NA	Water	PrecSep_0	
MB 160-689150/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-689150/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 689151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-56264-41	24101590-043	Total/NA	Water	PrecSep-21	
160-56264-42	24101590-044	Total/NA	Water	PrecSep-21	
160-56264-43	24101590-045	Total/NA	Water	PrecSep-21	
160-56264-44	24101590-046	Total/NA	Water	PrecSep-21	
160-56264-45	24101590-047	Total/NA	Water	PrecSep-21	
160-56264-46	24101590-048	Total/NA	Water	PrecSep-21	
160-56264-47	24101590-049	Total/NA	Water	PrecSep-21	
160-56264-48	24101590-050	Total/NA	Water	PrecSep-21	
160-56264-49	24101590-051	Total/NA	Water	PrecSep-21	
160-56264-50	24101590-052	Total/NA	Water	PrecSep-21	
160-56264-51	24101590-053	Total/NA	Water	PrecSep-21	
160-56264-52	24101590-054	Total/NA	Water	PrecSep-21	
160-56264-53	24101590-055	Total/NA	Water	PrecSep-21	
160-56264-54	24101590-056	Total/NA	Water	PrecSep-21	
160-56264-55	24101590-057	Total/NA	Water	PrecSep-21	
160-56264-56	24101590-058	Total/NA	Water	PrecSep-21	
160-56264-57	24101590-059	Total/NA	Water	PrecSep-21	
160-56264-58	24101590-060	Total/NA	Water	PrecSep-21	
160-56264-59	24101590-061	Total/NA	Water	PrecSep-21	
MB 160-689151/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-689151/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-56264-48 DU	24101590-050	Total/NA	Water	PrecSep-21	

Prep Batch: 689152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-56264-41	24101590-043	Total/NA	Water	PrecSep_0	
160-56264-42	24101590-044	Total/NA	Water	PrecSep_0	
160-56264-43	24101590-045	Total/NA	Water	PrecSep_0	
160-56264-44	24101590-046	Total/NA	Water	PrecSep_0	
160-56264-45	24101590-047	Total/NA	Water	PrecSep_0	
160-56264-46	24101590-048	Total/NA	Water	PrecSep_0	
160-56264-47	24101590-049	Total/NA	Water	PrecSep_0	
160-56264-48	24101590-050	Total/NA	Water	PrecSep_0	
160-56264-49	24101590-051	Total/NA	Water	PrecSep_0	
160-56264-50	24101590-052	Total/NA	Water	PrecSep_0	
160-56264-51	24101590-053	Total/NA	Water	PrecSep_0	
160-56264-52	24101590-054	Total/NA	Water	PrecSep_0	
160-56264-53	24101590-055	Total/NA	Water	PrecSep_0	
160-56264-54	24101590-056	Total/NA	Water	PrecSep_0	

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QC Association Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Rad (Continued)

Prep Batch: 689152 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-56264-55	24101590-057	Total/NA	Water	PrecSep_0	
160-56264-56	24101590-058	Total/NA	Water	PrecSep_0	
160-56264-57	24101590-059	Total/NA	Water	PrecSep_0	
160-56264-58	24101590-060	Total/NA	Water	PrecSep_0	
160-56264-59	24101590-061	Total/NA	Water	PrecSep_0	
MB 160-689152/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-689152/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-56264-48 DU	24101590-050	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba					
Lab Sample ID	Client Sample ID	(30-110)					
160-56264-40	24101590-042	89.9					
160-56264-41	24101590-043	86.8					
160-56264-42	24101590-044	94.7					
160-56264-43	24101590-045	88.3					
160-56264-44	24101590-046	88.1					
160-56264-45	24101590-047	98.7					
160-56264-46	24101590-048	91.9					
160-56264-47	24101590-049	90.9					
160-56264-48	24101590-050	84.0					
160-56264-48 DU	24101590-050	87.8					
160-56264-49	24101590-051	90.9					
160-56264-50	24101590-052	89.3					
160-56264-51	24101590-053	81.5					
160-56264-52	24101590-054	89.3					
160-56264-53	24101590-055	89.8					
160-56264-54	24101590-056	87.8					
160-56264-55	24101590-057	80.2					
160-56264-56	24101590-058	83.5					
160-56264-57	24101590-059	85.5					
160-56264-58	24101590-060	88.8					
160-56264-59	24101590-061	92.4					
LCS 160-689149/2-A	Lab Control Sample	85.3					
LCS 160-689151/2-A	Lab Control Sample	93.9					
MB 160-689149/1-A	Method Blank	88.4					
MB 160-689151/1-A	Method Blank	96.7					

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba		Y			
Lab Sample ID	Client Sample ID	(30-110)	(30-110)				
160-56264-40	24101590-042	89.9	86.4				
160-56264-41	24101590-043	86.8	83.4				
160-56264-42	24101590-044	94.7	82.6				
160-56264-43	24101590-045	88.3	84.1				
160-56264-44	24101590-046	88.1	82.2				
160-56264-45	24101590-047	98.7	88.2				
160-56264-46	24101590-048	91.9	86.7				
160-56264-47	24101590-049	90.9	85.6				
160-56264-48	24101590-050	84.0	79.3				
160-56264-48 DU	24101590-050	87.8	83.0				
160-56264-49	24101590-051	90.9	84.1				
160-56264-50	24101590-052	89.3	86.0				
160-56264-51	24101590-053	81.5	78.1				
160-56264-52	24101590-054	89.3	84.5				
160-56264-53	24101590-055	89.8	87.1				

Eurofins St. Louis

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
COFFEEN POWER PLANT, ASH POND NO. 1
Job ID: 160-56264-3
SDG: 24101590

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)
160-56264-54	24101590-056	87.8	86.0
160-56264-55	24101590-057	80.2	85.6
160-56264-56	24101590-058	83.5	87.5
160-56264-57	24101590-059	85.5	78.1
160-56264-58	24101590-060	88.8	82.2
160-56264-59	24101590-061	92.4	82.6
LCS 160-689150/2-A	Lab Control Sample	85.3	80.4
LCS 160-689152/2-A	Lab Control Sample	93.9	88.2
MB 160-689150/1-A	Method Blank	88.4	80.7
MB 160-689152/1-A	Method Blank	96.7	85.2

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

**ATTACHMENT C
COMPARISON TO BACKGROUND
QUARTER 4, 2024**

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G301	UA	E007	Antimony, total	mg/L	11/20/15 - 11/07/24	21	90	CB around T-S line	0.00168	0.003
G301	UA	E007	Arsenic, total	mg/L	11/20/15 - 11/07/24	26	69	CI around median	0.001	0.00430
G301	UA	E007	Barium, total	mg/L	11/20/15 - 11/07/24	26	0	CB around T-S line	-0.00771	0.120
G301	UA	E007	Beryllium, total	mg/L	11/20/15 - 11/07/24	25	100	All ND - Last	0.001	0.001
G301	UA	E007	Boron, total	mg/L	11/20/15 - 11/07/24	27	0	CI around mean	2.15	3.20
G301	UA	E007	Cadmium, total	mg/L	11/20/15 - 11/07/24	26	96	CI around median	0.001	0.001
G301	UA	E007	Chloride, total	mg/L	11/20/15 - 11/07/24	27	0	CB around T-S line	5.61	120
G301	UA	E007	Chromium, total	mg/L	11/20/15 - 11/07/24	26	65	CB around T-S line	0.000772	0.0110
G301	UA	E007	Cobalt, total	mg/L	11/20/15 - 11/07/24	26	27	CB around T-S line	0.000326	0.00560
G301	UA	E007	Fluoride, total	mg/L	11/20/15 - 11/07/24	27	37	CI around median	0.25	0.411
G301	UA	E007	Lead, total	mg/L	11/20/15 - 11/07/24	26	54	CB around T-S line	-0.000263	0.00630
G301	UA	E007	Lithium, total	mg/L	11/20/15 - 11/07/24	26	50	CI around median	0.01	0.0130
G301	UA	E007	Mercury, total	mg/L	11/20/15 - 11/07/24	21	95	CI around median	0.0002	0.00130
G301	UA	E007	Molybdenum, total	mg/L	11/20/15 - 11/07/24	26	100	All ND - Last	0.0015	0.00150
G301	UA	E007	pH (field)	SU	11/20/15 - 11/07/24	27	0	CB around linear reg	6.3/6.7	6.6/7.3
G301	UA	E007	Radium 226 + Radium 228, total	pCi/L	11/20/15 - 11/07/24	26	0	CI around mean	0.475	1.60
G301	UA	E007	Selenium, total	mg/L	11/20/15 - 11/07/24	25	100	All ND - Last	0.001	0.00150
G301	UA	E007	Sulfate, total	mg/L	11/20/15 - 11/07/24	27	0	CB around linear reg	439	367
G301	UA	E007	Thallium, total	mg/L	11/20/15 - 11/07/24	21	100	All ND - Last	0.002	0.00100
G301	UA	E007	Total Dissolved Solids	mg/L	11/20/15 - 11/07/24	27	0	CB around linear reg	845	1,010
G302	UA	E007	Antimony, total	mg/L	11/20/15 - 11/06/24	21	100	All ND - Last	0.001	0.003
G302	UA	E007	Arsenic, total	mg/L	11/20/15 - 11/06/24	26	27	CI around median	0.001	0.00430
G302	UA	E007	Barium, total	mg/L	11/20/15 - 11/06/24	26	0	CI around geomean	0.0292	0.120
G302	UA	E007	Beryllium, total	mg/L	11/20/15 - 11/06/24	25	100	All ND - Last	0.001	0.001
G302	UA	E007	Boron, total	mg/L	11/20/15 - 11/06/24	27	0	CI around mean	1.71	3.20
G302	UA	E007	Cadmium, total	mg/L	11/20/15 - 11/06/24	26	100	All ND - Last	0.001	0.001
G302	UA	E007	Chloride, total	mg/L	11/20/15 - 11/06/24	27	4	CI around mean	12.4	120

ATTACHMENT C.
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COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G302	UA	E007	Chromium, total	mg/L	11/20/15 - 11/06/24	26	69	CB around T-S line	0.00167	0.0110
G302	UA	E007	Cobalt, total	mg/L	11/20/15 - 11/06/24	26	23	CI around median	0.002	0.00560
G302	UA	E007	Fluoride, total	mg/L	11/20/15 - 11/06/24	27	37	CI around median	0.25	0.411
G302	UA	E007	Lead, total	mg/L	11/20/15 - 11/06/24	26	58	CI around median	0.001	0.00630
G302	UA	E007	Lithium, total	mg/L	11/20/15 - 11/06/24	26	27	CB around linear reg	0.011	0.0130
G302	UA	E007	Mercury, total	mg/L	11/20/15 - 11/06/24	21	95	CI around median	0.0002	0.00130
G302	UA	E007	Molybdenum, total	mg/L	11/20/15 - 11/06/24	26	54	CI around median	0.001	0.00150
G302	UA	E007	pH (field)	SU	11/20/15 - 11/06/24	27	0	CB around linear reg	6.5/6.8	6.6/7.3
G302	UA	E007	Radium 226 + Radium 228, total	pCi/L	11/20/15 - 11/06/24	26	0	CI around geomean	0.374	1.60
G302	UA	E007	Selenium, total	mg/L	11/20/15 - 11/06/24	25	96	CI around median	0.001	0.00150
G302	UA	E007	Sulfate, total	mg/L	11/20/15 - 11/06/24	27	0	CI around mean	391	367
G302	UA	E007	Thallium, total	mg/L	11/20/15 - 11/06/24	21	100	All ND - Last	0.002	0.00100
G302	UA	E007	Total Dissolved Solids	mg/L	11/20/15 - 11/06/24	27	0	CI around mean	994	1,010
G303	UA	E007	Antimony, total	mg/L	11/20/15 - 11/06/24	21	100	All ND - Last	0.001	0.003
G303	UA	E007	Arsenic, total	mg/L	11/20/15 - 11/06/24	26	4	CB around T-S line	-0.00302	0.00430
G303	UA	E007	Barium, total	mg/L	11/20/15 - 11/06/24	26	0	CI around median	0.016	0.120
G303	UA	E007	Beryllium, total	mg/L	11/20/15 - 11/06/24	25	100	All ND - Last	0.001	0.001
G303	UA	E007	Boron, total	mg/L	11/20/15 - 11/06/24	27	0	CB around linear reg	2	3.20
G303	UA	E007	Cadmium, total	mg/L	11/20/15 - 11/06/24	26	100	All ND - Last	0.001	0.001
G303	UA	E007	Chloride, total	mg/L	11/20/15 - 11/06/24	27	0	CB around linear reg	25.2	120
G303	UA	E007	Chromium, total	mg/L	11/20/15 - 11/06/24	26	81	CB around T-S line	0.00186	0.0110
G303	UA	E007	Cobalt, total	mg/L	11/20/15 - 11/06/24	26	27	CI around geomean	0.00138	0.00560
G303	UA	E007	Fluoride, total	mg/L	11/20/15 - 11/06/24	27	26	CI around median	0.268	0.411
G303	UA	E007	Lead, total	mg/L	11/20/15 - 11/06/24	26	85	CI around median	0.001	0.00630
G303	UA	E007	Lithium, total	mg/L	11/20/15 - 11/06/24	26	0	CB around linear reg	0.0156	0.0130
G303	UA	E007	Mercury, total	mg/L	11/20/15 - 11/06/24	21	90	CI around median	0.0002	0.00130
G303	UA	E007	Molybdenum, total	mg/L	11/20/15 - 11/06/24	26	0	CI around mean	0.00177	0.00150

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ASH POND NO. 1
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G303	UA	E007	pH (field)	SU	11/20/15 - 11/06/24	27	0	CB around linear reg	6.6/6.8	6.6/7.3
G303	UA	E007	Radium 226 + Radium 228, total	pCi/L	11/20/15 - 11/06/24	26	0	CI around geomean	0.496	1.60
G303	UA	E007	Selenium, total	mg/L	11/20/15 - 11/06/24	25	100	All ND - Last	0.001	0.00150
G303	UA	E007	Sulfate, total	mg/L	11/20/15 - 11/06/24	27	0	CB around linear reg	606	367
G303	UA	E007	Thallium, total	mg/L	11/20/15 - 11/06/24	21	100	All ND - Last	0.002	0.00100
G303	UA	E007	Total Dissolved Solids	mg/L	11/20/15 - 11/06/24	27	0	CI around mean	1,530	1,010
G305	UA	E007	Antimony, total	mg/L	05/19/16 - 11/06/24	13	100	All ND - Last	0.001	0.003
G305	UA	E007	Arsenic, total	mg/L	05/19/16 - 11/06/24	13	69	CI around median	0.001	0.00430
G305	UA	E007	Barium, total	mg/L	05/19/16 - 11/06/24	13	0	CB around T-S line	-0.0283	0.120
G305	UA	E007	Beryllium, total	mg/L	05/19/16 - 11/06/24	13	100	All ND - Last	0.001	0.001
G305	UA	E007	Boron, total	mg/L	05/19/16 - 11/06/24	13	0	CI around mean	2.13	3.20
G305	UA	E007	Cadmium, total	mg/L	05/19/16 - 11/06/24	13	100	All ND - Last	0.001	0.001
G305	UA	E007	Chloride, total	mg/L	05/19/16 - 11/06/24	13	0	CB around T-S line	13.3	120
G305	UA	E007	Chromium, total	mg/L	05/19/16 - 11/06/24	13	62	CB around T-S line	-0.0192	0.0110
G305	UA	E007	Cobalt, total	mg/L	05/19/16 - 11/06/24	13	77	CB around T-S line	-0.00552	0.00560
G305	UA	E007	Fluoride, total	mg/L	05/19/16 - 11/06/24	13	15	CI around mean	0.376	0.411
G305	UA	E007	Lead, total	mg/L	05/19/16 - 11/06/24	13	38	CB around T-S line	-0.0188	0.00630
G305	UA	E007	Lithium, total	mg/L	05/19/16 - 11/06/24	13	31	CB around T-S line	-0.00302	0.0130
G305	UA	E007	Mercury, total	mg/L	05/19/16 - 11/06/24	13	100	All ND - Last	0.0002	0.00130
G305	UA	E007	Molybdenum, total	mg/L	05/19/16 - 11/06/24	13	62	CI around median	0.001	0.00150
G305	UA	E007	pH (field)	SU	05/19/16 - 11/06/24	13	0	CI around mean	7.0/7.3	6.6/7.3
G305	UA	E007	Radium 226 + Radium 228, total	pCi/L	05/19/16 - 11/06/24	13	0	CI around geomean	0.207	1.60
G305	UA	E007	Selenium, total	mg/L	05/19/16 - 11/06/24	13	100	All ND - Last	0.001	0.00150
G305	UA	E007	Sulfate, total	mg/L	05/19/16 - 11/06/24	13	0	CI around mean	814	367
G305	UA	E007	Thallium, total	mg/L	05/19/16 - 11/06/24	13	100	All ND - Last	0.002	0.00100
G305	UA	E007	Total Dissolved Solids	mg/L	05/19/16 - 11/06/24	13	0	CI around mean	1,390	1,010
G307	UA	E007	Antimony, total	mg/L	08/16/16 - 11/04/24	17	100	All ND - Last	0.001	0.003

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G307	UA	E007	Arsenic, total	mg/L	08/16/16 - 11/04/24	22	54	CI around median	0.001	0.00430
G307	UA	E007	Barium, total	mg/L	08/16/16 - 11/04/24	22	0	CI around geomean	0.0321	0.120
G307	UA	E007	Beryllium, total	mg/L	08/16/16 - 11/04/24	21	90	CI around median	0.001	0.001
G307	UA	E007	Boron, total	mg/L	08/16/16 - 11/04/24	23	0	CI around mean	2.02	3.20
G307	UA	E007	Cadmium, total	mg/L	08/16/16 - 11/04/24	22	59	CI around median	0.001	0.001
G307	UA	E007	Chloride, total	mg/L	08/16/16 - 11/04/24	23	0	CB around linear reg	7.46	120
G307	UA	E007	Chromium, total	mg/L	08/16/16 - 11/04/24	22	46	CI around geomean	0.002	0.0110
G307	UA	E007	Cobalt, total	mg/L	08/16/16 - 11/04/24	23	0	CI around median	0.0026	0.00560
G307	UA	E007	Fluoride, total	mg/L	08/16/16 - 11/04/24	23	13	CI around median	0.264	0.411
G307	UA	E007	Lead, total	mg/L	08/16/16 - 11/04/24	22	41	CI around median	0.001	0.00630
G307	UA	E007	Lithium, total	mg/L	08/16/16 - 11/04/24	22	41	CI around median	0.012	0.0130
G307	UA	E007	Mercury, total	mg/L	08/16/16 - 11/04/24	17	82	CI around median	0.0002	0.00130
G307	UA	E007	Molybdenum, total	mg/L	08/16/16 - 11/04/24	22	18	CI around median	0.0013	0.00150
G307	UA	E007	pH (field)	SU	08/16/16 - 11/04/24	24	0	CI around mean	7.0/7.2	6.6/7.3
G307	UA	E007	Radium 226 + Radium 228, total	pCi/L	08/16/16 - 11/04/24	22	0	CI around mean	0.623	1.60
G307	UA	E007	Selenium, total	mg/L	08/16/16 - 11/04/24	21	86	CI around median	0.001	0.00150
G307	UA	E007	Sulfate, total	mg/L	08/16/16 - 11/04/24	23	0	CB around linear reg	368	367
G307	UA	E007	Thallium, total	mg/L	08/16/16 - 11/04/24	17	100	All ND - Last	0.002	0.00100
G307	UA	E007	Total Dissolved Solids	mg/L	08/16/16 - 11/04/24	23	0	CB around linear reg	844	1,010
G307D	LCU	E007	Antimony, total	mg/L	03/29/21 - 11/04/24	13	92	CB around T-S line	0.000207	0.003
G307D	LCU	E007	Arsenic, total	mg/L	03/29/21 - 11/04/24	13	15	CI around geomean	0.00103	0.00430
G307D	LCU	E007	Barium, total	mg/L	03/29/21 - 11/04/24	13	0	CB around T-S line	0.00755	0.120
G307D	LCU	E007	Beryllium, total	mg/L	03/29/21 - 11/04/24	13	100	All ND - Last	0.001	0.001
G307D	LCU	E007	Boron, total	mg/L	03/29/21 - 11/04/24	13	0	CI around mean	1.28	3.20
G307D	LCU	E007	Cadmium, total	mg/L	03/29/21 - 11/04/24	13	100	All ND - Last	0.001	0.001
G307D	LCU	E007	Chloride, total	mg/L	03/29/21 - 11/04/24	12	0	CB around linear reg	5.83	120
G307D	LCU	E007	Chromium, total	mg/L	03/29/21 - 11/04/24	13	100	All ND - Last	0.0015	0.0110

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ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G307D	LCU	E007	Cobalt, total	mg/L	03/29/21 - 11/04/24	13	92	CB around T-S line	0.000591	0.00560
G307D	LCU	E007	Fluoride, total	mg/L	03/29/21 - 11/04/24	12	8	CI around mean	0.46	0.411
G307D	LCU	E007	Lead, total	mg/L	03/29/21 - 11/04/24	13	100	All ND - Last	0.001	0.00630
G307D	LCU	E007	Lithium, total	mg/L	03/29/21 - 11/04/24	13	92	CB around T-S line	-0.00556	0.0130
G307D	LCU	E007	Mercury, total	mg/L	03/29/21 - 11/04/24	13	92	CI around median	0.0002	0.00130
G307D	LCU	E007	Molybdenum, total	mg/L	03/29/21 - 11/04/24	13	0	CI around mean	0.00508	0.00150
G307D	LCU	E007	pH (field)	SU	03/29/21 - 11/04/24	13	0	CB around linear reg	6.9/7.2	6.6/7.3
G307D	LCU	E007	Radium 226 + Radium 228, total	pCi/L	03/29/21 - 11/04/24	14	0	CI around geomean	0.22	1.60
G307D	LCU	E007	Selenium, total	mg/L	03/29/21 - 11/04/24	13	100	All ND - Last	0.001	0.00150
G307D	LCU	E007	Sulfate, total	mg/L	03/29/21 - 11/04/24	12	0	CB around linear reg	461	367
G307D	LCU	E007	Thallium, total	mg/L	03/29/21 - 11/04/24	13	100	All ND - Last	0.002	0.00100
G307D	LCU	E007	Total Dissolved Solids	mg/L	03/29/21 - 11/04/24	12	0	CB around linear reg	860	1,010
G308	UA	E007	Antimony, total	mg/L	03/29/21 - 11/04/24	16	94	CB around T-S line	0.000263	0.003
G308	UA	E007	Arsenic, total	mg/L	03/29/21 - 11/04/24	16	88	CI around median	0.001	0.00430
G308	UA	E007	Barium, total	mg/L	03/29/21 - 11/04/24	16	0	CI around mean	0.0195	0.120
G308	UA	E007	Beryllium, total	mg/L	03/29/21 - 11/04/24	16	100	All ND - Last	0.001	0.001
G308	UA	E007	Boron, total	mg/L	03/29/21 - 11/04/24	16	0	CI around mean	2.48	3.20
G308	UA	E007	Cadmium, total	mg/L	03/29/21 - 11/04/24	16	100	All ND - Last	0.001	0.001
G308	UA	E007	Chloride, total	mg/L	03/29/21 - 11/04/24	16	6	CB around T-S line	5.49	120
G308	UA	E007	Chromium, total	mg/L	03/29/21 - 11/04/24	16	94	CB around T-S line	0.000561	0.0110
G308	UA	E007	Cobalt, total	mg/L	03/29/21 - 11/04/24	16	100	All ND - Last	0.001	0.00560
G308	UA	E007	Fluoride, total	mg/L	03/29/21 - 11/04/24	16	6	CI around median	0.503	0.411
G308	UA	E007	Lead, total	mg/L	03/29/21 - 11/04/24	16	100	All ND - Last	0.001	0.00630
G308	UA	E007	Lithium, total	mg/L	03/29/21 - 11/04/24	16	62	CB around T-S line	0.00264	0.0130
G308	UA	E007	Mercury, total	mg/L	03/29/21 - 11/04/24	16	94	CI around median	0.0002	0.00130
G308	UA	E007	Molybdenum, total	mg/L	03/29/21 - 11/04/24	16	12	CI around mean	0.00113	0.00150
G308	UA	E007	pH (field)	SU	03/29/21 - 11/04/24	16	0	CI around mean	7.1/7.3	6.6/7.3

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ASH POND NO. 1
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G308	UA	E007	Radium 226 + Radium 228, total	pCi/L	03/29/21 - 11/04/24	15	0	CI around median	0.0476	1.60
G308	UA	E007	Selenium, total	mg/L	03/29/21 - 11/04/24	16	94	CI around median	0.001	0.00150
G308	UA	E007	Sulfate, total	mg/L	03/29/21 - 11/04/24	16	0	CB around linear reg	788	367
G308	UA	E007	Thallium, total	mg/L	03/29/21 - 11/04/24	16	100	All ND - Last	0.002	0.00100
G308	UA	E007	Total Dissolved Solids	mg/L	03/29/21 - 11/04/24	16	0	CB around T-S line	810	1,010
G310	UA	E007	Antimony, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.001	0.003
G310	UA	E007	Arsenic, total	mg/L	03/29/21 - 11/06/24	16	94	CI around median	0.001	0.00430
G310	UA	E007	Barium, total	mg/L	03/29/21 - 11/06/24	16	0	CI around mean	0.0149	0.120
G310	UA	E007	Beryllium, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.001	0.001
G310	UA	E007	Boron, total	mg/L	03/29/21 - 11/06/24	16	0	CI around mean	1.75	3.20
G310	UA	E007	Cadmium, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.001	0.001
G310	UA	E007	Chloride, total	mg/L	03/29/21 - 11/06/24	16	0	CB around linear reg	7.97	120
G310	UA	E007	Chromium, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.0015	0.0110
G310	UA	E007	Cobalt, total	mg/L	03/29/21 - 11/06/24	16	62	CB around T-S line	0.000963	0.00560
G310	UA	E007	Fluoride, total	mg/L	03/29/21 - 11/06/24	16	25	CI around geomean	0.269	0.411
G310	UA	E007	Lead, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.001	0.00630
G310	UA	E007	Lithium, total	mg/L	03/29/21 - 11/06/24	16	62	CB around T-S line	0.00133	0.0130
G310	UA	E007	Mercury, total	mg/L	03/29/21 - 11/06/24	16	94	CI around median	0.0002	0.00130
G310	UA	E007	Molybdenum, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.0015	0.00150
G310	UA	E007	pH (field)	SU	03/29/21 - 11/06/24	16	0	CI around mean	6.9/7.2	6.6/7.3
G310	UA	E007	Radium 226 + Radium 228, total	pCi/L	03/29/21 - 11/06/24	15	0	CI around median	0.0501	1.60
G310	UA	E007	Selenium, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.001	0.00150
G310	UA	E007	Sulfate, total	mg/L	03/29/21 - 11/06/24	16	0	CB around T-S line	-618	367
G310	UA	E007	Thallium, total	mg/L	03/29/21 - 11/06/24	16	100	All ND - Last	0.002	0.00100
G310	UA	E007	Total Dissolved Solids	mg/L	03/29/21 - 11/06/24	16	0	CB around linear reg	835	1,010
G312	UA	E007	Antimony, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.001	0.003
G312	UA	E007	Arsenic, total	mg/L	03/30/21 - 11/06/24	14	93	CI around median	0.001	0.00430

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G312	UA	E007	Barium, total	mg/L	03/30/21 - 11/06/24	14	0	CI around mean	0.025	0.120
G312	UA	E007	Beryllium, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.001	0.001
G312	UA	E007	Boron, total	mg/L	03/30/21 - 11/06/24	14	0	CB around linear reg	2.61	3.20
G312	UA	E007	Cadmium, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.001	0.001
G312	UA	E007	Chloride, total	mg/L	03/30/21 - 11/06/24	14	0	CI around mean	22.6	120
G312	UA	E007	Chromium, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.0015	0.0110
G312	UA	E007	Cobalt, total	mg/L	03/30/21 - 11/06/24	14	21	CI around mean	0.00198	0.00560
G312	UA	E007	Fluoride, total	mg/L	03/30/21 - 11/06/24	14	71	CI around median	0.22	0.411
G312	UA	E007	Lead, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.001	0.00630
G312	UA	E007	Lithium, total	mg/L	03/30/21 - 11/06/24	14	50	CI around mean	0.0172	0.0130
G312	UA	E007	Mercury, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.0002	0.00130
G312	UA	E007	Molybdenum, total	mg/L	03/30/21 - 11/06/24	14	93	CI around median	0.001	0.00150
G312	UA	E007	pH (field)	SU	03/30/21 - 11/06/24	14	0	CI around mean	6.3/6.5	6.6/7.3
G312	UA	E007	Radium 226 + Radium 228, total	pCi/L	03/30/21 - 11/06/24	13	0	CI around mean	0.189	1.60
G312	UA	E007	Selenium, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.001	0.00150
G312	UA	E007	Sulfate, total	mg/L	03/30/21 - 11/06/24	14	0	CI around mean	764	367
G312	UA	E007	Thallium, total	mg/L	03/30/21 - 11/06/24	14	100	All ND - Last	0.002	0.00100
G312	UA	E007	Total Dissolved Solids	mg/L	03/30/21 - 11/06/24	14	0	CB around linear reg	1,620	1,010
G313	UA	E007	Antimony, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.001	0.003
G313	UA	E007	Arsenic, total	mg/L	03/30/21 - 11/07/24	16	88	CI around median	0.001	0.00430
G313	UA	E007	Barium, total	mg/L	03/30/21 - 11/07/24	16	0	CB around linear reg	0.0148	0.120
G313	UA	E007	Beryllium, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.001	0.001
G313	UA	E007	Boron, total	mg/L	03/30/21 - 11/07/24	16	0	CI around median	3.3	3.20
G313	UA	E007	Cadmium, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.001	0.001
G313	UA	E007	Chloride, total	mg/L	03/30/21 - 11/07/24	16	6	CB around T-S line	16.4	120
G313	UA	E007	Chromium, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.0015	0.0110
G313	UA	E007	Cobalt, total	mg/L	03/30/21 - 11/07/24	16	81	CB around T-S line	0.000474	0.00560

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G313	UA	E007	Fluoride, total	mg/L	03/30/21 - 11/07/24	16	19	CI around median	0.267	0.411
G313	UA	E007	Lead, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.001	0.00630
G313	UA	E007	Lithium, total	mg/L	03/30/21 - 11/07/24	16	31	CI around median	0.0196	0.0130
G313	UA	E007	Mercury, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.0002	0.00130
G313	UA	E007	Molybdenum, total	mg/L	03/30/21 - 11/07/24	16	31	CI around geomean	0.00104	0.00150
G313	UA	E007	pH (field)	SU	03/30/21 - 11/07/24	16	0	CB around linear reg	6.6/6.8	6.6/7.3
G313	UA	E007	Radium 226 + Radium 228, total	pCi/L	03/30/21 - 11/07/24	15	0	CI around median	0.0924	1.60
G313	UA	E007	Selenium, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.001	0.00150
G313	UA	E007	Sulfate, total	mg/L	03/30/21 - 11/07/24	16	0	CB around T-S line	286	367
G313	UA	E007	Thallium, total	mg/L	03/30/21 - 11/07/24	16	100	All ND - Last	0.002	0.00100
G313	UA	E007	Total Dissolved Solids	mg/L	03/30/21 - 11/07/24	16	0	CB around linear reg	1,280	1,010
G314	LCU	E007	Antimony, total	mg/L	03/30/21 - 11/06/24	16	94	CB around T-S line	0.000299	0.003
G314	LCU	E007	Arsenic, total	mg/L	03/30/21 - 11/06/24	16	69	CI around median	0.001	0.00430
G314	LCU	E007	Barium, total	mg/L	03/30/21 - 11/06/24	16	0	CB around T-S line	-0.00168	0.120
G314	LCU	E007	Beryllium, total	mg/L	03/30/21 - 11/06/24	16	100	All ND - Last	0.001	0.001
G314	LCU	E007	Boron, total	mg/L	03/30/21 - 11/06/24	16	0	CI around geomean	0.14	3.20
G314	LCU	E007	Cadmium, total	mg/L	03/30/21 - 11/06/24	16	100	All ND - Last	0.001	0.001
G314	LCU	E007	Chloride, total	mg/L	03/30/21 - 11/06/24	16	0	CI around median	31	120
G314	LCU	E007	Chromium, total	mg/L	03/30/21 - 11/06/24	16	81	CI around median	0.0015	0.0110
G314	LCU	E007	Cobalt, total	mg/L	03/30/21 - 11/06/24	16	6	CI around mean	0.00309	0.00560
G314	LCU	E007	Fluoride, total	mg/L	03/30/21 - 11/06/24	16	75	CI around median	0.23	0.411
G314	LCU	E007	Lead, total	mg/L	03/30/21 - 11/06/24	16	88	CI around median	0.001	0.00630
G314	LCU	E007	Lithium, total	mg/L	03/30/21 - 11/06/24	16	62	CB around T-S line	0.0011	0.0130
G314	LCU	E007	Mercury, total	mg/L	03/30/21 - 11/06/24	16	100	All ND - Last	0.0002	0.00130
G314	LCU	E007	Molybdenum, total	mg/L	03/30/21 - 11/06/24	16	19	CB around linear reg	-0.00335	0.00150
G314	LCU	E007	pH (field)	SU	03/30/21 - 11/06/24	16	0	CB around T-S line	6.1/6.5	6.6/7.3
G314	LCU	E007	Radium 226 + Radium 228, total	pCi/L	03/30/21 - 11/06/24	15	0	CI around geomean	0.582	1.60

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G314	LCU	E007	Selenium, total	mg/L	03/30/21 - 11/06/24	16	88	CI around median	0.001	0.00150
G314	LCU	E007	Sulfate, total	mg/L	03/30/21 - 11/06/24	16	0	CI around median	2,000	367
G314	LCU	E007	Thallium, total	mg/L	03/30/21 - 11/06/24	16	100	All ND - Last	0.002	0.00100
G314	LCU	E007	Total Dissolved Solids	mg/L	03/30/21 - 11/06/24	16	0	CI around median	3,430	1,010
G314D	DA	E007	Antimony, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.001	0.003
G314D	DA	E007	Arsenic, total	mg/L	03/30/21 - 11/04/24	13	38	CI around median	0.001	0.00430
G314D	DA	E007	Barium, total	mg/L	03/30/21 - 11/04/24	13	0	CB around T-S line	0.0217	0.120
G314D	DA	E007	Beryllium, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.001	0.001
G314D	DA	E007	Boron, total	mg/L	03/30/21 - 11/04/24	13	0	CI around mean	0.161	3.20
G314D	DA	E007	Cadmium, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.001	0.001
G314D	DA	E007	Chloride, total	mg/L	03/30/21 - 11/04/24	12	0	CB around linear reg	-1.04	120
G314D	DA	E007	Chromium, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.0015	0.0110
G314D	DA	E007	Cobalt, total	mg/L	03/30/21 - 11/04/24	13	54	CI around median	0.002	0.00560
G314D	DA	E007	Fluoride, total	mg/L	03/30/21 - 11/04/24	12	8	CB around linear reg	0.255	0.411
G314D	DA	E007	Lead, total	mg/L	03/30/21 - 11/04/24	13	85	CI around median	0.001	0.00630
G314D	DA	E007	Lithium, total	mg/L	03/30/21 - 11/04/24	13	31	CB around linear reg	0.00861	0.0130
G314D	DA	E007	Mercury, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.0002	0.00130
G314D	DA	E007	Molybdenum, total	mg/L	03/30/21 - 11/04/24	13	0	CB around linear reg	-0.00599	0.00150
G314D	DA	E007	pH (field)	SU	03/30/21 - 11/04/24	13	0	CB around linear reg	6.6/6.9	6.6/7.3
G314D	DA	E007	Radium 226 + Radium 228, total	pCi/L	03/30/21 - 11/04/24	13	0	CI around geomean	1.31	1.60
G314D	DA	E007	Selenium, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.001	0.00150
G314D	DA	E007	Sulfate, total	mg/L	03/30/21 - 11/04/24	12	0	CB around linear reg	962	367
G314D	DA	E007	Thallium, total	mg/L	03/30/21 - 11/04/24	13	100	All ND - Last	0.002	0.00100
G314D	DA	E007	Total Dissolved Solids	mg/L	03/30/21 - 11/04/24	12	0	CI around median	1,800	1,010
G315	UA	E007	Antimony, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.003
G315	UA	E007	Arsenic, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.00430
G315	UA	E007	Barium, total	mg/L	03/30/21 - 11/04/24	16	0	CB around T-S line	0.00939	0.120

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G315	UA	E007	Beryllium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.001
G315	UA	E007	Boron, total	mg/L	03/30/21 - 11/04/24	16	0	CI around median	1.2	3.20
G315	UA	E007	Cadmium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.001
G315	UA	E007	Chloride, total	mg/L	03/30/21 - 11/04/24	16	0	CB around T-S line	-20.5	120
G315	UA	E007	Chromium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.0015	0.0110
G315	UA	E007	Cobalt, total	mg/L	03/30/21 - 11/04/24	16	94	CB around T-S line	0.0007	0.00560
G315	UA	E007	Fluoride, total	mg/L	03/30/21 - 11/04/24	16	12	CI around median	0.253	0.411
G315	UA	E007	Lead, total	mg/L	03/30/21 - 11/04/24	16	94	CI around median	0.001	0.00630
G315	UA	E007	Lithium, total	mg/L	03/30/21 - 11/04/24	16	62	CB around T-S line	0.000705	0.0130
G315	UA	E007	Mercury, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.0002	0.00130
G315	UA	E007	Molybdenum, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.0015	0.00150
G315	UA	E007	pH (field)	SU	03/30/21 - 11/04/24	16	0	CI around mean	6.7/6.9	6.6/7.3
G315	UA	E007	Radium 226 + Radium 228, total	pCi/L	03/30/21 - 11/04/24	15	0	CI around mean	0.228	1.60
G315	UA	E007	Selenium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.00150
G315	UA	E007	Sulfate, total	mg/L	03/30/21 - 11/04/24	16	0	CB around T-S line	295	367
G315	UA	E007	Thallium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.002	0.00100
G315	UA	E007	Total Dissolved Solids	mg/L	03/30/21 - 11/04/24	16	0	CI around mean	1,080	1,010
G316	LCU	E007	Antimony, total	mg/L	03/30/21 - 11/04/24	16	88	CB around T-S line	0.000309	0.003
G316	LCU	E007	Arsenic, total	mg/L	03/30/21 - 11/04/24	16	0	CB around linear reg	0.00802	0.00430
G316	LCU	E007	Barium, total	mg/L	03/30/21 - 11/04/24	16	0	CB around linear reg	0.0685	0.120
G316	LCU	E007	Beryllium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.001
G316	LCU	E007	Boron, total	mg/L	03/30/21 - 11/04/24	16	0	CI around mean	0.38	3.20
G316	LCU	E007	Cadmium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.001
G316	LCU	E007	Chloride, total	mg/L	03/30/21 - 11/04/24	16	0	CI around median	24	120
G316	LCU	E007	Chromium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.0015	0.0110
G316	LCU	E007	Cobalt, total	mg/L	03/30/21 - 11/04/24	16	0	CB around linear reg	0.0021	0.00560
G316	LCU	E007	Fluoride, total	mg/L	03/30/21 - 11/04/24	16	50	CI around median	0.25	0.411

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
845 QUARTERLY REPORT
COFFEEN POWER PLANT
ASH POND NO. 1
COFFEEN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G316	LCU	E007	Lead, total	mg/L	03/30/21 - 11/04/24	16	94	CI around median	0.001	0.00630
G316	LCU	E007	Lithium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.003	0.0130
G316	LCU	E007	Mercury, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.0002	0.00130
G316	LCU	E007	Molybdenum, total	mg/L	03/30/21 - 11/04/24	16	0	CB around linear reg	0.00432	0.00150
G316	LCU	E007	pH (field)	SU	03/30/21 - 11/04/24	16	0	CI around mean	6.9/7.0	6.6/7.3
G316	LCU	E007	Radium 226 + Radium 228, total	pCi/L	03/30/21 - 11/04/24	15	0	CI around geomean	0.374	1.60
G316	LCU	E007	Selenium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.001	0.00150
G316	LCU	E007	Sulfate, total	mg/L	03/30/21 - 11/04/24	16	0	CI around median	662	367
G316	LCU	E007	Thallium, total	mg/L	03/30/21 - 11/04/24	16	100	All ND - Last	0.002	0.00100
G316	LCU	E007	Total Dissolved Solids	mg/L	03/30/21 - 11/04/24	16	0	CI around median	1,470	1,010

Notes:

Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value

Throughout this document, “exceedance” or “exceedances” is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program which was submitted to the Illinois Environmental Protection Agency (IEPA) on October 25, 2021 as part of Illinois Power Generating Company’s (IPGC’s) operating permit application for the Ash Pond No. 1 . That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, IPGC has not identified any actual exceedances.

Events:

E007 = Quarter 4, 2024 sampling event

HSU = hydrostratigraphic unit:

DA = Deep Aquifer

LCU = Lower Confining Unit

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

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 T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

Statistical Result Code (if applicable):

NR¹ = Parameter not analyzed.

NS¹ = Well has been, or will be, abandoned; therefore, a sample was not collected.

NS² = Well either needs or was undergoing maintenance; therefore, a sample was not collected.

NS³ = The location was not accessible; therefore, a sample was not collected.

NS⁴ = The location could not be found; therefore, a sample was not collected.

NS⁵ = The location was damaged; therefore, a sample was not collected.

NS⁶ = Sampling pump could not yield a sample.

NS⁷ = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.

NS⁸ = A sample was not collected.

PM¹ = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.

For pH, the values presented are the lower / upper limits of the background determination