Luminant

Electric Energy, Inc.
1500 Eastport Plaza Drive
Collinsville, IL 62234

January 30, 2024

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: Joppa Power Plant, East Ash Pond; IEPA ID # W1270100004-02

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.610(b)(3)(D), Electric Energy, Inc. (EEI) is submitting groundwater monitoring data for the Quarter 4, 2023 sampling event at the Joppa Power Plant East Ash Pond, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1270100004-02. 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 compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine statistical exceedances of the GWPS.

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).

As allowed in 35 I.A.C. § 845.650(e), an alternative source demonstration (ASD) was submitted on October 21, 2023 for exceedances of the cobalt (well G05) and pH (wells G11 and G51D) GWPS detected during the Quarter 2, 2023 sampling event. The IEPA provided a written response on November 16, 2023 that did not concur with the ASD. Therefore, a Corrective Measures Assessment (CMA) was initiated on November 20, 2023 in accordance with 35 I.A.C. § 845.660. Boron GWPS exceedances will also be addressed in accordance with 35 I.A.C. § 845.660.

Sincerely,

Dianna Tickner

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

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 4, 2023, East Ash Pond, Joppa Power Plant, Joppa, Illinois

RAMBOLL

ENVIRONMENT
& HEALTH

35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 4, 2023
EAST ASH POND, JOPPA POWER PLANT, JOPPA, ILLINOIS

January 30, 2024

Samples were collected between October 23 and 25, 2023 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on December 1, 2023.

The monitoring well locations are included in **Figure 1**. **Attachment A** summarizes the groundwater elevation data for the Quarter 4, 2023 sampling event. **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, 2023 sampling event. Groundwater elevation data is not available for monitoring locations XSG01 and SG02. XSG01 had insufficient water and SG02 could not be measured during this sampling event.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan[1] provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 4, 2023 groundwater monitoring data were evaluated for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

In accordance with 35 I.A.C. § 845.610(b)(3)(C), the statistically derived values identified as Statistical Results in **Table 2** were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine statistical exceedances of the GWPS, as shown in **Table 2**. The date of this submittal is considered to be the date that the exceedances were detected.

As allowed in 35 I.A.C. § 845.650(e), an alternative source demonstration[2] (ASD) was submitted on October 21, 2023 for exceedances of the cobalt (well G05) and pH (wells G11 and G51D) GWPS detected during the Quarter 2, 2023 sampling event. The Illinois Environmental Protection Agency (IEPA) provided a written response on November 16, 2023[3] that did not concur with the ASD. Therefore, a Corrective Measures Assessment (CMA) was initiated on November 20, 2023 in accordance with 35 I.A.C. § 845.660. Boron GWPS exceedances will also be addressed in accordance with 35 I.A.C. § 845.660.

TABLES

[1] Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan. East Ash Pond. Joppa Power Plant. Joppa, Illinois. October 25, 2021.*

[2] Ramboll, 2023. *35 I.A.C. § 845.650(E): Alternative Source Demonstration, East Ash Pond, Joppa, Illinois, IEPA ID: W1270100004-02.* October 21, 2023.

[3] Illinois Environmental Protection Agency (IEPA), 2023. *Letter from Michael Summers (IEPA) to Dianna Tickner (Electric Energy, Inc.), Re: Joppa Power Plant East Ash Pond; W1270100004-02; Alternative Source Demonstration Submittal.* November 16, 2023.

FIGURES

ATTACHMENTS

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G01D	Background	E003	10/23/2023	Antimony, total	0.0004 U	mg/L
G01D	Background	E003	10/23/2023	Arsenic, total	0.0004 U	mg/L
G01D	Background	E003	10/23/2023	Barium, total	0.188	mg/L
G01D	Background	E003	10/23/2023	Beryllium, total	0.0002 U	mg/L
G01D	Background	E003	10/23/2023	Boron, total	0.014 J	mg/L
G01D	Background	E003	10/23/2023	Cadmium, total	0.0002 U	mg/L
G01D	Background	E003	10/23/2023	Calcium, total	33.0	mg/L
G01D	Background	E003	10/23/2023	Chloride, total	13.0	mg/L
G01D	Background	E003	10/23/2023	Chromium, total	0.00200	mg/L
G01D	Background	E003	10/23/2023	Cobalt, total	0.001 UJ	mg/L
G01D	Background	E003	10/23/2023	Dissolved Oxygen	1.83	mg/L
G01D	Background	E003	10/23/2023	Fluoride, total	0.200 J+	mg/L
G01D	Background	E003	10/23/2023	Lead, total	0.0006 U	mg/L
G01D	Background	E003	10/23/2023	Lithium, total	0.0015 U	mg/L
G01D	Background	E003	10/23/2023	Mercury, total	0.00006 U	mg/L
G01D	Background	E003	10/23/2023	Molybdenum, total	0.0006 U	mg/L
G01D	Background	E003	10/23/2023	Oxidation Reduction Potential	103	mV
G01D	Background	E003	10/23/2023	pH (field)	6.4	SU
G01D	Background	E003	10/23/2023	Radium 226 + Radium 228, total	1.09	pCi/L
G01D	Background	E003	10/23/2023	Selenium, total	0.00140 J+	mg/L
G01D	Background	E003	10/23/2023	Specific Conductance @ 25C (field)	484	micromhos/cm
G01D	Background	E003	10/23/2023	Sulfate, total	30.0	mg/L
G01D	Background	E003	10/23/2023	Temperature	16.9	degrees C
G01D	Background	E003	10/23/2023	Thallium, total	0.001 U	mg/L
G01D	Background	E003	10/23/2023	Total Dissolved Solids	308	mg/L
G01D	Background	E003	10/23/2023	Turbidity, field	180	NTU
G02D	Background	E003	10/23/2023	Antimony, total	0.0004 U	mg/L
G02D	Background	E003	10/23/2023	Arsenic, total	0.0004 U	mg/L
G02D	Background	E003	10/23/2023	Barium, total	0.170	mg/L
G02D	Background	E003	10/23/2023	Beryllium, total	0.0002 U	mg/L
G02D	Background	E003	10/23/2023	Boron, total	0.0276	mg/L
G02D	Background	E003	10/23/2023	Cadmium, total	0.0002 U	mg/L
G02D	Background	E003	10/23/2023	Calcium, total	34.0	mg/L
G02D	Background	E003	10/23/2023	Chloride, total	22.0	mg/L
G02D	Background	E003	10/23/2023	Chromium, total	0.0009 J	mg/L
G02D	Background	E003	10/23/2023	Cobalt, total	0.001 UJ	mg/L
G02D	Background	E003	10/23/2023	Dissolved Oxygen	2.90	mg/L
G02D	Background	E003	10/23/2023	Fluoride, total	0.190 J+	mg/L
G02D	Background	E003	10/23/2023	Lead, total	0.0006 U	mg/L
G02D	Background	E003	10/23/2023	Lithium, total	0.0015 U	mg/L
G02D	Background	E003	10/23/2023	Mercury, total	0.00006 U	mg/L
G02D	Background	E003	10/23/2023	Molybdenum, total	0.0006 U	mg/L
G02D	Background	E003	10/23/2023	Oxidation Reduction Potential	108	mV
G02D	Background	E003	10/23/2023	pH (field)	6.4	SU
G02D	Background	E003	10/23/2023	Radium 226 + Radium 228, total	1.03	pCi/L
G02D	Background	E003	10/23/2023	Selenium, total	0.00120 J+	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G02D	Background	E003	10/23/2023	Specific Conductance @ 25C (field)	341	micromhos/cm
G02D	Background	E003	10/23/2023	Sulfate, total	15.0	mg/L
G02D	Background	E003	10/23/2023	Temperature	15.4	degrees C
G02D	Background	E003	10/23/2023	Thallium, total	0.001 U	mg/L
G02D	Background	E003	10/23/2023	Total Dissolved Solids	204	mg/L
G02D	Background	E003	10/23/2023	Turbidity, field	91.0	NTU
G03	Compliance	E003	10/23/2023	Antimony, total	0.0004 U	mg/L
G03	Compliance	E003	10/23/2023	Arsenic, total	0.001 UJ	mg/L
G03	Compliance	E003	10/23/2023	Barium, total	0.0652	mg/L
G03	Compliance	E003	10/23/2023	Beryllium, total	0.0002 U	mg/L
G03	Compliance	E003	10/23/2023	Boron, total	0.269	mg/L
G03	Compliance	E003	10/23/2023	Cadmium, total	0.0002 U	mg/L
G03	Compliance	E003	10/23/2023	Calcium, total	42.8	mg/L
G03	Compliance	E003	10/23/2023	Chloride, total	20.0	mg/L
G03	Compliance	E003	10/23/2023	Chromium, total	0.00230	mg/L
G03	Compliance	E003	10/23/2023	Cobalt, total	0.001 UJ	mg/L
G03	Compliance	E003	10/23/2023	Dissolved Oxygen	3.66	mg/L
G03	Compliance	E003	10/23/2023	Fluoride, total	0.200 J+	mg/L
G03	Compliance	E003	10/23/2023	Lead, total	0.001 UJ	mg/L
G03	Compliance	E003	10/23/2023	Lithium, total	0.003 UJ	mg/L
G03	Compliance	E003	10/23/2023	Mercury, total	0.00006 U	mg/L
G03	Compliance	E003	10/23/2023	Molybdenum, total	0.0006 U	mg/L
G03	Compliance	E003	10/23/2023	Oxidation Reduction Potential	130	mV
G03	Compliance	E003	10/23/2023	pH (field)	6.4	SU
G03	Compliance	E003	10/23/2023	Radium 226 + Radium 228, total	1.23	pCi/L
G03	Compliance	E003	10/23/2023	Selenium, total	0.0006 U	mg/L
G03	Compliance	E003	10/23/2023	Specific Conductance @ 25C (field)	411	micromhos/cm
G03	Compliance	E003	10/23/2023	Sulfate, total	61.0	mg/L
G03	Compliance	E003	10/23/2023	Temperature	16.4	degrees C
G03	Compliance	E003	10/23/2023	Thallium, total	0.001 U	mg/L
G03	Compliance	E003	10/23/2023	Total Dissolved Solids	254	mg/L
G03	Compliance	E003	10/23/2023	Turbidity, field	110	NTU
G05	Compliance	E003	10/24/2023	Antimony, total	0.0004 U	mg/L
G05	Compliance	E003	10/24/2023	Arsenic, total	0.001 UJ	mg/L
G05	Compliance	E003	10/24/2023	Barium, total	0.177	mg/L
G05	Compliance	E003	10/24/2023	Beryllium, total	0.0002 U	mg/L
G05	Compliance	E003	10/24/2023	Boron, total	0.0485	mg/L
G05	Compliance	E003	10/24/2023	Cadmium, total	0.0002 U	mg/L
G05	Compliance	E003	10/24/2023	Calcium, total	50.4	mg/L
G05	Compliance	E003	10/24/2023	Chloride, total	22.0	mg/L
G05	Compliance	E003	10/24/2023	Chromium, total	0.0008 U	mg/L
G05	Compliance	E003	10/24/2023	Cobalt, total	0.00200 J+	mg/L
G05	Compliance	E003	10/24/2023	Dissolved Oxygen	1.21	mg/L
G05	Compliance	E003	10/24/2023	Fluoride, total	0.440	mg/L
G05	Compliance	E003	10/24/2023	Lead, total	0.0006 U	mg/L
G05	Compliance	E003	10/24/2023	Lithium, total	0.003 UJ	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G05	Compliance	E003	10/24/2023	Mercury, total	0.00006 U	mg/L
G05	Compliance	E003	10/24/2023	Molybdenum, total	0.00250 J+	mg/L
G05	Compliance	E003	10/24/2023	Oxidation Reduction Potential	45.0	mV
G05	Compliance	E003	10/24/2023	pH (field)	6.4	SU
G05	Compliance	E003	10/24/2023	Radium 226 + Radium 228, total	0.82	pCi/L
G05	Compliance	E003	10/24/2023	Selenium, total	0.001 UJ	mg/L
G05	Compliance	E003	10/24/2023	Specific Conductance @ 25C (field)	460	micromhos/cm
G05	Compliance	E003	10/24/2023	Sulfate, total	92.0	mg/L
G05	Compliance	E003	10/24/2023	Temperature	17.7	degrees C
G05	Compliance	E003	10/24/2023	Thallium, total	0.001 U	mg/L
G05	Compliance	E003	10/24/2023	Total Dissolved Solids	358	mg/L
G05	Compliance	E003	10/24/2023	Turbidity, field	7.30	NTU
G06	Compliance	E003	10/24/2023	Antimony, total	0.0004 U	mg/L
G06	Compliance	E003	10/24/2023	Arsenic, total	0.0004 U	mg/L
G06	Compliance	E003	10/24/2023	Barium, total	0.0363 J+	mg/L
G06	Compliance	E003	10/24/2023	Beryllium, total	0.0002 U	mg/L
G06	Compliance	E003	10/24/2023	Boron, total	3.73	mg/L
G06	Compliance	E003	10/24/2023	Cadmium, total	0.0002 U	mg/L
G06	Compliance	E003	10/24/2023	Calcium, total	82.5	mg/L
G06	Compliance	E003	10/24/2023	Chloride, total	22.0	mg/L
G06	Compliance	E003	10/24/2023	Chromium, total	0.00190	mg/L
G06	Compliance	E003	10/24/2023	Cobalt, total	0.001 UJ	mg/L
G06	Compliance	E003	10/24/2023	Dissolved Oxygen	0.760	mg/L
G06	Compliance	E003	10/24/2023	Fluoride, total	0.290 J+	mg/L
G06	Compliance	E003	10/24/2023	Lead, total	0.001 UJ	mg/L
G06	Compliance	E003	10/24/2023	Lithium, total	0.00470 J+	mg/L
G06	Compliance	E003	10/24/2023	Mercury, total	0.00006 U	mg/L
G06	Compliance	E003	10/24/2023	Molybdenum, total	0.0006 U	mg/L
G06	Compliance	E003	10/24/2023	Oxidation Reduction Potential	116	mV
G06	Compliance	E003	10/24/2023	pH (field)	6.6	SU
G06	Compliance	E003	10/24/2023	Radium 226 + Radium 228, total	1.29	pCi/L
G06	Compliance	E003	10/24/2023	Selenium, total	0.0006 U	mg/L
G06	Compliance	E003	10/24/2023	Specific Conductance @ 25C (field)	593	micromhos/cm
G06	Compliance	E003	10/24/2023	Sulfate, total	196	mg/L
G06	Compliance	E003	10/24/2023	Temperature	15.7	degrees C
G06	Compliance	E003	10/24/2023	Thallium, total	0.001 U	mg/L
G06	Compliance	E003	10/24/2023	Total Dissolved Solids	474	mg/L
G06	Compliance	E003	10/24/2023	Turbidity, field	18.0	NTU
G07	Compliance	E003	10/24/2023	Antimony, total	0.0004 U	mg/L
G07	Compliance	E003	10/24/2023	Arsenic, total	0.0004 U	mg/L
G07	Compliance	E003	10/24/2023	Barium, total	0.0429	mg/L
G07	Compliance	E003	10/24/2023	Beryllium, total	0.0002 U	mg/L
G07	Compliance	E003	10/24/2023	Boron, total	5.05	mg/L
G07	Compliance	E003	10/24/2023	Cadmium, total	0.0002 U	mg/L
G07	Compliance	E003	10/24/2023	Calcium, total	95.7	mg/L
G07	Compliance	E003	10/24/2023	Chloride, total	21.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G07	Compliance	E003	10/24/2023	Chromium, total	0.0008 U	mg/L
G07	Compliance	E003	10/24/2023	Cobalt, total	0.001 UJ	mg/L
G07	Compliance	E003	10/24/2023	Dissolved Oxygen	0.880	mg/L
G07	Compliance	E003	10/24/2023	Fluoride, total	0.410	mg/L
G07	Compliance	E003	10/24/2023	Lead, total	0.0006 U	mg/L
G07	Compliance	E003	10/24/2023	Lithium, total	0.00310 J+	mg/L
G07	Compliance	E003	10/24/2023	Mercury, total	0.00006 U	mg/L
G07	Compliance	E003	10/24/2023	Molybdenum, total	0.0006 U	mg/L
G07	Compliance	E003	10/24/2023	Oxidation Reduction Potential	131	mV
G07	Compliance	E003	10/24/2023	pH (field)	6.4	SU
G07	Compliance	E003	10/24/2023	Radium 226 + Radium 228, total	0.737	pCi/L
G07	Compliance	E003	10/24/2023	Selenium, total	0.0006 U	mg/L
G07	Compliance	E003	10/24/2023	Specific Conductance @ 25C (field)	709	micromhos/cm
G07	Compliance	E003	10/24/2023	Sulfate, total	285	mg/L
G07	Compliance	E003	10/24/2023	Temperature	15.8	degrees C
G07	Compliance	E003	10/24/2023	Thallium, total	0.001 U	mg/L
G07	Compliance	E003	10/24/2023	Total Dissolved Solids	618	mg/L
G07	Compliance	E003	10/24/2023	Turbidity, field	10.0	NTU
G08	Compliance	E003	10/24/2023	Antimony, total	0.0004 U	mg/L
G08	Compliance	E003	10/24/2023	Arsenic, total	0.0145	mg/L
G08	Compliance	E003	10/24/2023	Barium, total	0.105	mg/L
G08	Compliance	E003	10/24/2023	Beryllium, total	0.0004 J	mg/L
G08	Compliance	E003	10/24/2023	Boron, total	5.28	mg/L
G08	Compliance	E003	10/24/2023	Cadmium, total	0.0002 U	mg/L
G08	Compliance	E003	10/24/2023	Calcium, total	140	mg/L
G08	Compliance	E003	10/24/2023	Chloride, total	17.0	mg/L
G08	Compliance	E003	10/24/2023	Chromium, total	0.00650	mg/L
G08	Compliance	E003	10/24/2023	Cobalt, total	0.00660 J+	mg/L
G08	Compliance	E003	10/24/2023	Dissolved Oxygen	3.34	mg/L
G08	Compliance	E003	10/24/2023	Fluoride, total	0.290 J+	mg/L
G08	Compliance	E003	10/24/2023	Lead, total	0.00320 J+	mg/L
G08	Compliance	E003	10/24/2023	Lithium, total	0.00320 J+	mg/L
G08	Compliance	E003	10/24/2023	Mercury, total	0.00006 U	mg/L
G08	Compliance	E003	10/24/2023	Molybdenum, total	0.00300 J+	mg/L
G08	Compliance	E003	10/24/2023	Oxidation Reduction Potential	29.0	mV
G08	Compliance	E003	10/24/2023	pH (field)	7.0	SU
G08	Compliance	E003	10/24/2023	Radium 226 + Radium 228, total	5.61	pCi/L
G08	Compliance	E003	10/24/2023	Selenium, total	0.0006 U	mg/L
G08	Compliance	E003	10/24/2023	Specific Conductance @ 25C (field)	910	micromhos/cm
G08	Compliance	E003	10/24/2023	Sulfate, total	389	mg/L
G08	Compliance	E003	10/24/2023	Temperature	18.2	degrees C
G08	Compliance	E003	10/24/2023	Thallium, total	0.001 U	mg/L
G08	Compliance	E003	10/24/2023	Total Dissolved Solids	660	mg/L
G08	Compliance	E003	10/24/2023	Turbidity, field	24.0	NTU
G09	Compliance	E003	10/25/2023	Antimony, total	0.0004 U	mg/L
G09	Compliance	E003	10/25/2023	Arsenic, total	0.00270 J+	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G09	Compliance	E003	10/25/2023	Barium, total	0.0312 J+	mg/L
G09	Compliance	E003	10/25/2023	Beryllium, total	0.0002 U	mg/L
G09	Compliance	E003	10/25/2023	Boron, total	3.50	mg/L
G09	Compliance	E003	10/25/2023	Cadmium, total	0.0002 U	mg/L
G09	Compliance	E003	10/25/2023	Calcium, total	62.3	mg/L
G09	Compliance	E003	10/25/2023	Chloride, total	17.0	mg/L
G09	Compliance	E003	10/25/2023	Chromium, total	0.00150	mg/L
G09	Compliance	E003	10/25/2023	Cobalt, total	0.00270 J+	mg/L
G09	Compliance	E003	10/25/2023	Dissolved Oxygen	0.900	mg/L
G09	Compliance	E003	10/25/2023	Fluoride, total	0.310 J+	mg/L
G09	Compliance	E003	10/25/2023	Lead, total	0.0006 U	mg/L
G09	Compliance	E003	10/25/2023	Lithium, total	0.00340 J+	mg/L
G09	Compliance	E003	10/25/2023	Mercury, total	0.00006 U	mg/L
G09	Compliance	E003	10/25/2023	Molybdenum, total	0.002 UJ	mg/L
G09	Compliance	E003	10/25/2023	Oxidation Reduction Potential	-3.00	mV
G09	Compliance	E003	10/25/2023	pH (field)	6.2	SU
G09	Compliance	E003	10/25/2023	Radium 226 + Radium 228, total	1.09	pCi/L
G09	Compliance	E003	10/25/2023	Selenium, total	0.0006 U	mg/L
G09	Compliance	E003	10/25/2023	Specific Conductance @ 25C (field)	601	micromhos/cm
G09	Compliance	E003	10/25/2023	Sulfate, total	245	mg/L
G09	Compliance	E003	10/25/2023	Temperature	18.1	degrees C
G09	Compliance	E003	10/25/2023	Thallium, total	0.001 U	mg/L
G09	Compliance	E003	10/25/2023	Total Dissolved Solids	472	mg/L
G09	Compliance	E003	10/25/2023	Turbidity, field	8.10	NTU
G10	Compliance	E003	10/24/2023	Antimony, total	0.0004 U	mg/L
G10	Compliance	E003	10/24/2023	Arsenic, total	0.00260 J+	mg/L
G10	Compliance	E003	10/24/2023	Barium, total	0.0385 J+	mg/L
G10	Compliance	E003	10/24/2023	Beryllium, total	0.0002 U	mg/L
G10	Compliance	E003	10/24/2023	Boron, total	2.35	mg/L
G10	Compliance	E003	10/24/2023	Cadmium, total	0.0002 U	mg/L
G10	Compliance	E003	10/24/2023	Calcium, total	117	mg/L
G10	Compliance	E003	10/24/2023	Chloride, total	26.0	mg/L
G10	Compliance	E003	10/24/2023	Chromium, total	0.00360	mg/L
G10	Compliance	E003	10/24/2023	Cobalt, total	0.00220 J+	mg/L
G10	Compliance	E003	10/24/2023	Dissolved Oxygen	1.49	mg/L
G10	Compliance	E003	10/24/2023	Fluoride, total	0.350 J+	mg/L
G10	Compliance	E003	10/24/2023	Lead, total	0.0006 U	mg/L
G10	Compliance	E003	10/24/2023	Lithium, total	0.00470 J+	mg/L
G10	Compliance	E003	10/24/2023	Mercury, total	0.00006 U	mg/L
G10	Compliance	E003	10/24/2023	Molybdenum, total	0.002 UJ	mg/L
G10	Compliance	E003	10/24/2023	Oxidation Reduction Potential	23.0	mV
G10	Compliance	E003	10/24/2023	pH (field)	6.6	SU
G10	Compliance	E003	10/24/2023	Radium 226 + Radium 228, total	1.5	pCi/L
G10	Compliance	E003	10/24/2023	Selenium, total	0.0006 U	mg/L
G10	Compliance	E003	10/24/2023	Specific Conductance @ 25C (field)	1,100	micromhos/cm
G10	Compliance	E003	10/24/2023	Sulfate, total	375	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G10	Compliance	E003	10/24/2023	Temperature	17.4	degrees C
G10	Compliance	E003	10/24/2023	Thallium, total	0.001 U	mg/L
G10	Compliance	E003	10/24/2023	Total Dissolved Solids	800	mg/L
G10	Compliance	E003	10/24/2023	Turbidity, field	46.0	NTU
G11	Compliance	E003	10/24/2023	Antimony, total	0.0004 U	mg/L
G11	Compliance	E003	10/24/2023	Arsenic, total	0.0004 U	mg/L
G11	Compliance	E003	10/24/2023	Barium, total	0.0217 J+	mg/L
G11	Compliance	E003	10/24/2023	Beryllium, total	0.0002 U	mg/L
G11	Compliance	E003	10/24/2023	Boron, total	0.282	mg/L
G11	Compliance	E003	10/24/2023	Cadmium, total	0.0002 U	mg/L
G11	Compliance	E003	10/24/2023	Calcium, total	54.4	mg/L
G11	Compliance	E003	10/24/2023	Chloride, total	30.0	mg/L
G11	Compliance	E003	10/24/2023	Chromium, total	0.0009 J	mg/L
G11	Compliance	E003	10/24/2023	Cobalt, total	0.001 UJ	mg/L
G11	Compliance	E003	10/24/2023	Dissolved Oxygen	2.23	mg/L
G11	Compliance	E003	10/24/2023	Fluoride, total	0.140 J+	mg/L
G11	Compliance	E003	10/24/2023	Lead, total	0.0006 U	mg/L
G11	Compliance	E003	10/24/2023	Lithium, total	0.00350 J+	mg/L
G11	Compliance	E003	10/24/2023	Mercury, total	0.00006 U	mg/L
G11	Compliance	E003	10/24/2023	Molybdenum, total	0.0006 U	mg/L
G11	Compliance	E003	10/24/2023	Oxidation Reduction Potential	124	mV
G11	Compliance	E003	10/24/2023	pH (field)	5.9	SU
G11	Compliance	E003	10/24/2023	Radium 226 + Radium 228, total	1.51	pCi/L
G11	Compliance	E003	10/24/2023	Selenium, total	0.00150 J+	mg/L
G11	Compliance	E003	10/24/2023	Specific Conductance @ 25C (field)	600	micromhos/cm
G11	Compliance	E003	10/24/2023	Sulfate, total	180	mg/L
G11	Compliance	E003	10/24/2023	Temperature	18.0	degrees C
G11	Compliance	E003	10/24/2023	Thallium, total	0.001 U	mg/L
G11	Compliance	E003	10/24/2023	Total Dissolved Solids	402	mg/L
G11	Compliance	E003	10/24/2023	Turbidity, field	9.00	NTU
G51D	Compliance	E003	10/25/2023	Antimony, total	0.0004 U	mg/L
G51D	Compliance	E003	10/25/2023	Arsenic, total	0.0004 U	mg/L
G51D	Compliance	E003	10/25/2023	Barium, total	0.0433	mg/L
G51D	Compliance	E003	10/25/2023	Beryllium, total	0.0002 U	mg/L
G51D	Compliance	E003	10/25/2023	Boron, total	0.603	mg/L
G51D	Compliance	E003	10/25/2023	Cadmium, total	0.0002 U	mg/L
G51D	Compliance	E003	10/25/2023	Calcium, total	31.5	mg/L
G51D	Compliance	E003	10/25/2023	Chloride, total	4.00	mg/L
G51D	Compliance	E003	10/25/2023	Chromium, total	0.001 J	mg/L
G51D	Compliance	E003	10/25/2023	Cobalt, total	0.001 UJ	mg/L
G51D	Compliance	E003	10/25/2023	Dissolved Oxygen	1.89	mg/L
G51D	Compliance	E003	10/25/2023	Fluoride, total	0.100 J+	mg/L
G51D	Compliance	E003	10/25/2023	Lead, total	0.0006 U	mg/L
G51D	Compliance	E003	10/25/2023	Lithium, total	0.00530 J+	mg/L
G51D	Compliance	E003	10/25/2023	Mercury, total	0.00006 U	mg/L
G51D	Compliance	E003	10/25/2023	Molybdenum, total	0.00150 J+	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G51D	Compliance	E003	10/25/2023	Oxidation Reduction Potential	170	mV
G51D	Compliance	E003	10/25/2023	pH (field)	5.3	SU
G51D	Compliance	E003	10/25/2023	Radium 226 + Radium 228, total	0.82	pCi/L
G51D	Compliance	E003	10/25/2023	Selenium, total	0.00410 J+	mg/L
G51D	Compliance	E003	10/25/2023	Specific Conductance @ 25C (field)	332	micromhos/cm
G51D	Compliance	E003	10/25/2023	Sulfate, total	120	mg/L
G51D	Compliance	E003	10/25/2023	Temperature	17.1	degrees C
G51D	Compliance	E003	10/25/2023	Thallium, total	0.001 U	mg/L
G51D	Compliance	E003	10/25/2023	Total Dissolved Solids	270	mg/L
G51D	Compliance	E003	10/25/2023	Turbidity, field	4.00	NTU
G52D	Compliance	E003	10/24/2023	Antimony, total	0.0004 U	mg/L
G52D	Compliance	E003	10/24/2023	Arsenic, total	0.00130 J+	mg/L
G52D	Compliance	E003	10/24/2023	Barium, total	0.354	mg/L
G52D	Compliance	E003	10/24/2023	Beryllium, total	0.0002 U	mg/L
G52D	Compliance	E003	10/24/2023	Boron, total	0.021 J	mg/L
G52D	Compliance	E003	10/24/2023	Cadmium, total	0.0002 U	mg/L
G52D	Compliance	E003	10/24/2023	Calcium, total	47.9	mg/L
G52D	Compliance	E003	10/24/2023	Chloride, total	12.0	mg/L
G52D	Compliance	E003	10/24/2023	Chromium, total	0.0008 U	mg/L
G52D	Compliance	E003	10/24/2023	Cobalt, total	0.00340 J+	mg/L
G52D	Compliance	E003	10/24/2023	Dissolved Oxygen	1.51	mg/L
G52D	Compliance	E003	10/24/2023	Fluoride, total	0.290 J+	mg/L
G52D	Compliance	E003	10/24/2023	Lead, total	0.0006 U	mg/L
G52D	Compliance	E003	10/24/2023	Lithium, total	0.003 UJ	mg/L
G52D	Compliance	E003	10/24/2023	Mercury, total	0.00006 U	mg/L
G52D	Compliance	E003	10/24/2023	Molybdenum, total	0.0006 U	mg/L
G52D	Compliance	E003	10/24/2023	Oxidation Reduction Potential	0	mV
G52D	Compliance	E003	10/24/2023	pH (field)	6.3	SU
G52D	Compliance	E003	10/24/2023	Radium 226 + Radium 228, total	1.38 J	pCi/L
G52D	Compliance	E003	10/24/2023	Selenium, total	0.0006 U	mg/L
G52D	Compliance	E003	10/24/2023	Specific Conductance @ 25C (field)	393	micromhos/cm
G52D	Compliance	E003	10/24/2023	Sulfate, total	52.0	mg/L
G52D	Compliance	E003	10/24/2023	Temperature	16.6	degrees C
G52D	Compliance	E003	10/24/2023	Thallium, total	0.001 U	mg/L
G52D	Compliance	E003	10/24/2023	Total Dissolved Solids	296	mg/L
G52D	Compliance	E003	10/24/2023	Turbidity, field	1.60	NTU
G53D	Compliance	E003	10/25/2023	Antimony, total	0.0004 U	mg/L
G53D	Compliance	E003	10/25/2023	Arsenic, total	0.0004 U	mg/L
G53D	Compliance	E003	10/25/2023	Barium, total	0.107	mg/L
G53D	Compliance	E003	10/25/2023	Beryllium, total	0.0002 U	mg/L
G53D	Compliance	E003	10/25/2023	Boron, total	0.349	mg/L
G53D	Compliance	E003	10/25/2023	Cadmium, total	0.0002 U	mg/L
G53D	Compliance	E003	10/25/2023	Calcium, total	38.6	mg/L
G53D	Compliance	E003	10/25/2023	Chloride, total	18.0	mg/L
G53D	Compliance	E003	10/25/2023	Chromium, total	0.0011 J	mg/L
G53D	Compliance	E003	10/25/2023	Cobalt, total	0.00120 J+	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G53D	Compliance	E003	10/25/2023	Dissolved Oxygen	0.680	mg/L
G53D	Compliance	E003	10/25/2023	Fluoride, total	0.740	mg/L
G53D	Compliance	E003	10/25/2023	Lead, total	0.0006 U	mg/L
G53D	Compliance	E003	10/25/2023	Lithium, total	0.0015 U	mg/L
G53D	Compliance	E003	10/25/2023	Mercury, total	0.00006 U	mg/L
G53D	Compliance	E003	10/25/2023	Molybdenum, total	0.002 UJ	mg/L
G53D	Compliance	E003	10/25/2023	Oxidation Reduction Potential	49.0	mV
G53D	Compliance	E003	10/25/2023	pH (field)	6.5	SU
G53D	Compliance	E003	10/25/2023	Radium 226 + Radium 228, total	0.601	pCi/L
G53D	Compliance	E003	10/25/2023	Selenium, total	0.0006 U	mg/L
G53D	Compliance	E003	10/25/2023	Specific Conductance @ 25C (field)	412	micromhos/cm
G53D	Compliance	E003	10/25/2023	Sulfate, total	69.0	mg/L
G53D	Compliance	E003	10/25/2023	Temperature	17.7	degrees C
G53D	Compliance	E003	10/25/2023	Thallium, total	0.001 U	mg/L
G53D	Compliance	E003	10/25/2023	Total Dissolved Solids	312	mg/L
G53D	Compliance	E003	10/25/2023	Turbidity, field	4.60	NTU
G54D	Compliance	E003	10/25/2023	Antimony, total	0.0004 U	mg/L
G54D	Compliance	E003	10/25/2023	Arsenic, total	0.00130 J+	mg/L
G54D	Compliance	E003	10/25/2023	Barium, total	0.121	mg/L
G54D	Compliance	E003	10/25/2023	Beryllium, total	0.0003 J	mg/L
G54D	Compliance	E003	10/25/2023	Boron, total	0.396	mg/L
G54D	Compliance	E003	10/25/2023	Cadmium, total	0.0002 U	mg/L
G54D	Compliance	E003	10/25/2023	Calcium, total	87.5	mg/L
G54D	Compliance	E003	10/25/2023	Chloride, total	23.0	mg/L
G54D	Compliance	E003	10/25/2023	Chromium, total	0.00580	mg/L
G54D	Compliance	E003	10/25/2023	Cobalt, total	0.00880 J+	mg/L
G54D	Compliance	E003	10/25/2023	Dissolved Oxygen	0.530	mg/L
G54D	Compliance	E003	10/25/2023	Fluoride, total	0.310 J+	mg/L
G54D	Compliance	E003	10/25/2023	Lead, total	0.00150 J+	mg/L
G54D	Compliance	E003	10/25/2023	Lithium, total	0.00320 J+	mg/L
G54D	Compliance	E003	10/25/2023	Mercury, total	0.00006 U	mg/L
G54D	Compliance	E003	10/25/2023	Molybdenum, total	0.002 UJ	mg/L
G54D	Compliance	E003	10/25/2023	Oxidation Reduction Potential	-32.0	mV
G54D	Compliance	E003	10/25/2023	pH (field)	6.6	SU
G54D	Compliance	E003	10/25/2023	Radium 226 + Radium 228, total	1.41	pCi/L
G54D	Compliance	E003	10/25/2023	Selenium, total	0.001 UJ	mg/L
G54D	Compliance	E003	10/25/2023	Specific Conductance @ 25C (field)	643	micromhos/cm
G54D	Compliance	E003	10/25/2023	Sulfate, total	192	mg/L
G54D	Compliance	E003	10/25/2023	Temperature	17.2	degrees C
G54D	Compliance	E003	10/25/2023	Thallium, total	0.001 U	mg/L
G54D	Compliance	E003	10/25/2023	Total Dissolved Solids	502	mg/L
G54D	Compliance	E003	10/25/2023	Turbidity, field	190	NTU

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Notes:
C = Celsius
cm = centimeter
mg/L = milligrams per liter
mV = millivolts
NTU = Nephelometric Turbidity Units
pCi/L = picocuries per liter
SU = Standard Units
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The result is an estimated quantity, but the result may be biased high.
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G03	UA	E003	Antimony, total	mg/L	03/05/21 - 10/23/23	13	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G03	UA	E003	Arsenic, total	mg/L	03/05/21 - 10/23/23	13	46	CI around geomean	0.00108	0.010	Standard	No Exceedance
G03	UA	E003	Barium, total	mg/L	03/05/21 - 10/23/23	13	0	CI around mean	0.0596	2.0	Standard	No Exceedance
G03	UA	E003	Beryllium, total	mg/L	03/05/21 - 10/23/23	13	92	CI around median	0.001	0.004	Standard	No Exceedance
G03	UA	E003	Boron, total	mg/L	03/05/21 - 10/23/23	13	0	CI around geomean	0.24	2	Standard	No Exceedance
G03	UA	E003	Cadmium, total	mg/L	03/05/21 - 10/23/23	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G03	UA	E003	Chloride, total	mg/L	03/05/21 - 10/23/23	13	0	CI around mean	20.5	200	Standard	No Exceedance
G03	UA	E003	Chromium, total	mg/L	03/05/21 - 10/23/23	13	8	CI around mean	0.00279	0.1	Standard	No Exceedance
G03	UA	E003	Cobalt, total	mg/L	03/05/21 - 10/23/23	13	31	CI around geomean	0.00133	0.006	Standard	No Exceedance
G03	UA	E003	Fluoride, total	mg/L	03/05/21 - 10/23/23	13	0	CI around mean	0.192	4.0	Standard	No Exceedance
G03	UA	E003	Lead, total	mg/L	03/05/21 - 10/23/23	13	38	CI around geomean	0.0011	0.0075	Standard	No Exceedance
G03	UA	E003	Lithium, total	mg/L	03/05/21 - 10/23/23	13	69	CI around median	0.003	0.04	Standard	No Exceedance
G03	UA	E003	Mercury, total	mg/L	03/05/21 - 10/23/23	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G03	UA	E003	Molybdenum, total	mg/L	03/05/21 - 10/23/23	13	85	CI around median	0.0015	0.1	Standard	No Exceedance
G03	UA	E003	pH (field)	SU	03/05/21 - 10/23/23	13	0	CI around mean	6.3/6.4	6.0/9.0	Background/Standard	No Exceedance
G03	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/05/21 - 10/23/23	13	0	CI around mean	0.387	5	Standard	No Exceedance
G03	UA	E003	Selenium, total	mg/L	03/05/21 - 10/23/23	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G03	UA	E003	Sulfate, total	mg/L	03/05/21 - 10/23/23	13	0	CI around mean	69.7	400	Standard	No Exceedance
G03	UA	E003	Thallium, total	mg/L	03/05/21 - 10/23/23	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G03	UA	E003	Total Dissolved Solids	mg/L	03/05/21 - 10/23/23	13	0	CI around mean	279	1,200	Standard	No Exceedance
G05	UA	E003	Antimony, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G05	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.010	Standard	No Exceedance
G05	UA	E003	Barium, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	0.162	2.0	Standard	No Exceedance
G05	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G05	UA	E003	Boron, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	-0.00317	2	Standard	No Exceedance
G05	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G05	UA	E003	Chloride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	16.9	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G05	UA	E003	Chromium, total	mg/L	03/04/21 - 10/24/23	13	77	CI around median	0.0015	0.1	Standard	No Exceedance
G05	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	0.000824	0.006	Standard	No Exceedance
G05	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	0.358	4.0	Standard	No Exceedance
G05	UA	E003	Lead, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G05	UA	E003	Lithium, total	mg/L	03/04/21 - 10/24/23	13	77	CI around median	0.003	0.04	Standard	No Exceedance
G05	UA	E003	Mercury, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G05	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/24/23	13	8	CI around mean	0.00381	0.1	Standard	No Exceedance
G05	UA	E003	pH (field)	SU	03/04/21 - 10/24/23	13	0	CI around mean	6.4/6.5	6.0/9.0	Background/Standard	No Exceedance
G05	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/24/23	13	0	CI around geomean	0.372	5	Standard	No Exceedance
G05	UA	E003	Selenium, total	mg/L	03/04/21 - 10/24/23	13	31	CB around linear reg	3.89e-05	0.05	Standard	No Exceedance
G05	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	82.9	400	Standard	No Exceedance
G05	UA	E003	Thallium, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.002	0.002	Standard	No Exceedance
G05	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	352	1,200	Standard	No Exceedance
G06	UA	E003	Antimony, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.006	Standard	No Exceedance
G06	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/24/23	13	62	CI around median	0.001	0.010	Standard	No Exceedance
G06	UA	E003	Barium, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.0277	2.0	Standard	No Exceedance
G06	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G06	UA	E003	Boron, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	3.11	2	Standard	Exceedance
G06	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G06	UA	E003	Chloride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around median	21	200	Standard	No Exceedance
G06	UA	E003	Chromium, total	mg/L	03/04/21 - 10/24/23	13	31	CI around mean	0.00148	0.1	Standard	No Exceedance
G06	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/24/23	13	62	CI around median	0.001	0.006	Standard	No Exceedance
G06	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.256	4.0	Standard	No Exceedance
G06	UA	E003	Lead, total	mg/L	03/04/21 - 10/24/23	13	85	CI around median	0.001	0.0075	Standard	No Exceedance
G06	UA	E003	Lithium, total	mg/L	03/04/21 - 10/24/23	13	23	CI around median	0.0035	0.04	Standard	No Exceedance
G06	UA	E003	Mercury, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G06	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0015	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G06	UA	E003	pH (field)	SU	03/04/21 - 10/24/23	12	0	CI around mean	6.5/6.6	6.0/9.0	Background/Standard	No Exceedance
G06	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/24/23	13	0	CI around geomean	0.518	5	Standard	No Exceedance
G06	UA	E003	Selenium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G06	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	180	400	Standard	No Exceedance
G06	UA	E003	Thallium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G06	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	501	1,200	Standard	No Exceedance
G07	UA	E003	Antimony, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G07	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/24/23	13	77	CI around median	0.001	0.010	Standard	No Exceedance
G07	UA	E003	Barium, total	mg/L	03/04/21 - 10/24/23	13	0	CI around geomean	0.0415	2.0	Standard	No Exceedance
G07	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.004	Standard	No Exceedance
G07	UA	E003	Boron, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	4.34	2	Standard	Exceedance
G07	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G07	UA	E003	Chloride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	20.3	200	Standard	No Exceedance
G07	UA	E003	Chromium, total	mg/L	03/04/21 - 10/24/23	13	38	CI around geomean	0.00187	0.1	Standard	No Exceedance
G07	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/24/23	13	8	CI around mean	0.00123	0.006	Standard	No Exceedance
G07	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around median	0.4	4.0	Standard	No Exceedance
G07	UA	E003	Lead, total	mg/L	03/04/21 - 10/24/23	13	77	CI around median	0.001	0.0075	Standard	No Exceedance
G07	UA	E003	Lithium, total	mg/L	03/04/21 - 10/24/23	13	62	CI around median	0.003	0.04	Standard	No Exceedance
G07	UA	E003	Mercury, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G07	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.0015	0.1	Standard	No Exceedance
G07	UA	E003	pH (field)	SU	03/04/21 - 10/24/23	13	0	CI around mean	6.2/6.6	6.0/9.0	Background/Standard	No Exceedance
G07	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/24/23	13	0	CB around linear reg	0.744	5	Standard	No Exceedance
G07	UA	E003	Selenium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G07	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	251	400	Standard	No Exceedance
G07	UA	E003	Thallium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G07	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	575	1,200	Standard	No Exceedance
G08	UA	E003	Antimony, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G08	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/24/23	13	8	CI around mean	0.00609	0.010	Standard	No Exceedance
G08	UA	E003	Barium, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.0486	2.0	Standard	No Exceedance
G08	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.004	Standard	No Exceedance
G08	UA	E003	Boron, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	4.18	2	Standard	Exceedance
G08	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G08	UA	E003	Chloride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	14.2	200	Standard	No Exceedance
G08	UA	E003	Chromium, total	mg/L	03/04/21 - 10/24/23	13	15	CI around geomean	0.00174	0.1	Standard	No Exceedance
G08	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/24/23	13	8	CI around mean	0.00325	0.006	Standard	No Exceedance
G08	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	0.218	4.0	Standard	No Exceedance
G08	UA	E003	Lead, total	mg/L	03/04/21 - 10/24/23	13	77	CI around median	0.001	0.0075	Standard	No Exceedance
G08	UA	E003	Lithium, total	mg/L	03/04/21 - 10/24/23	13	85	CI around median	0.003	0.04	Standard	No Exceedance
G08	UA	E003	Mercury, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G08	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/24/23	13	15	CI around median	0.0017	0.1	Standard	No Exceedance
G08	UA	E003	pH (field)	SU	03/04/21 - 10/24/23	13	0	CI around median	6.8/7.0	6.0/9.0	Background/Standard	No Exceedance
G08	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/24/23	13	0	CI around geomean	0.284	5	Standard	No Exceedance
G08	UA	E003	Selenium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G08	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	289	400	Standard	No Exceedance
G08	UA	E003	Thallium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G08	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	555	1,200	Standard	No Exceedance
G09	UA	E003	Antimony, total	mg/L	03/04/21 - 10/25/23	13	92	CI around median	0.001	0.006	Standard	No Exceedance
G09	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/25/23	13	15	CI around mean	0.00238	0.010	Standard	No Exceedance
G09	UA	E003	Barium, total	mg/L	03/04/21 - 10/25/23	13	0	CB around linear reg	0.000628	2.0	Standard	No Exceedance
G09	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/25/23	13	77	CI around median	0.001	0.004	Standard	No Exceedance
G09	UA	E003	Boron, total	mg/L	03/04/21 - 10/25/23	13	0	CI around median	3.19	2	Standard	Exceedance
G09	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/25/23	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G09	UA	E003	Chloride, total	mg/L	03/04/21 - 10/25/23	13	0	CB around linear reg	14	200	Standard	No Exceedance
G09	UA	E003	Chromium, total	mg/L	03/04/21 - 10/25/23	13	23	CI around geomean	0.00154	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G09	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/25/23	13	0	CB around linear reg	-0.00147	0.006	Standard	No Exceedance
G09	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/25/23	13	0	CI around mean	0.282	4.0	Standard	No Exceedance
G09	UA	E003	Lead, total	mg/L	03/04/21 - 10/25/23	13	69	CI around median	0.001	0.0075	Standard	No Exceedance
G09	UA	E003	Lithium, total	mg/L	03/04/21 - 10/25/23	13	15	CI around median	0.0034	0.04	Standard	No Exceedance
G09	UA	E003	Mercury, total	mg/L	03/04/21 - 10/25/23	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G09	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/25/23	13	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G09	UA	E003	pH (field)	SU	03/04/21 - 10/25/23	13	0	CI around median	6.1/6.4	6.0/9.0	Background/Standard	No Exceedance
G09	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/25/23	13	0	CI around mean	0.257	5	Standard	No Exceedance
G09	UA	E003	Selenium, total	mg/L	03/04/21 - 10/25/23	13	92	CI around median	0.001	0.05	Standard	No Exceedance
G09	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/25/23	13	0	CI around mean	258	400	Standard	No Exceedance
G09	UA	E003	Thallium, total	mg/L	03/04/21 - 10/25/23	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G09	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/25/23	13	0	CB around linear reg	447	1,200	Standard	No Exceedance
G10	UA	E003	Antimony, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G10	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/24/23	13	31	CI around geomean	0.00118	0.010	Standard	No Exceedance
G10	UA	E003	Barium, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.0388	2.0	Standard	No Exceedance
G10	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.004	Standard	No Exceedance
G10	UA	E003	Boron, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	2.17	2	Standard	Exceedance
G10	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G10	UA	E003	Chloride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	25.7	200	Standard	No Exceedance
G10	UA	E003	Chromium, total	mg/L	03/04/21 - 10/24/23	13	31	CI around geomean	0.00156	0.1	Standard	No Exceedance
G10	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	-0.0014	0.006	Standard	No Exceedance
G10	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.276	4.0	Standard	No Exceedance
G10	UA	E003	Lead, total	mg/L	03/04/21 - 10/24/23	13	85	CI around median	0.001	0.0075	Standard	No Exceedance
G10	UA	E003	Lithium, total	mg/L	03/04/21 - 10/24/23	13	38	CI around median	0.003	0.04	Standard	No Exceedance
G10	UA	E003	Mercury, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G10	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/24/23	13	62	CI around median	0.0015	0.1	Standard	No Exceedance
G10	UA	E003	pH (field)	SU	03/04/21 - 10/24/23	13	0	CI around mean	6.5/6.7	6.0/9.0	Background/Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G10	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/24/23	13	0	CI around mean	0.561	5	Standard	No Exceedance
G10	UA	E003	Selenium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G10	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	372	400	Standard	No Exceedance
G10	UA	E003	Thallium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G10	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	747	1,200	Standard	No Exceedance
G11	UA	E003	Antimony, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G11	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.010	Standard	No Exceedance
G11	UA	E003	Barium, total	mg/L	03/04/21 - 10/24/23	13	0	CI around geomean	0.0135	2.0	Standard	No Exceedance
G11	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.004	Standard	No Exceedance
G11	UA	E003	Boron, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.287	2	Standard	No Exceedance
G11	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G11	UA	E003	Chloride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	32.4	200	Standard	No Exceedance
G11	UA	E003	Chromium, total	mg/L	03/04/21 - 10/24/23	13	85	CI around median	0.0015	0.1	Standard	No Exceedance
G11	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/24/23	13	38	CI around geomean	0.000934	0.006	Standard	No Exceedance
G11	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.167	4.0	Standard	No Exceedance
G11	UA	E003	Lead, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.0075	Standard	No Exceedance
G11	UA	E003	Lithium, total	mg/L	03/04/21 - 10/24/23	13	15	CI around median	0.0035	0.04	Standard	No Exceedance
G11	UA	E003	Mercury, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G11	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.0015	0.1	Standard	No Exceedance
G11	UA	E003	pH (field)	SU	03/04/21 - 10/24/23	13	0	CI around median	5.8/5.9	6.0/9.0	Background/Standard	Exceedance
G11	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/24/23	13	0	CI around mean	0.238	5	Standard	No Exceedance
G11	UA	E003	Selenium, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	-0.0023	0.05	Standard	No Exceedance
G11	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	20.9	400	Standard	No Exceedance
G11	UA	E003	Thallium, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.002	0.002	Standard	No Exceedance
G11	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	237	1,200	Standard	No Exceedance
G51D	UA	E003	Antimony, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G51D	UA	E003	Arsenic, total	mg/L	12/03/15 - 10/25/23	23	100	All ND - Last	0.001	0.010	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G51D	UA	E003	Barium, total	mg/L	12/03/15 - 10/25/23	23	0	CB around T-S line	0.00372	2.0	Standard	No Exceedance
G51D	UA	E003	Beryllium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G51D	UA	E003	Boron, total	mg/L	12/03/15 - 10/25/23	24	0	CB around T-S line	0.509	2	Standard	No Exceedance
G51D	UA	E003	Cadmium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G51D	UA	E003	Chloride, total	mg/L	12/03/15 - 10/25/23	24	0	CB around T-S line	2.77	200	Standard	No Exceedance
G51D	UA	E003	Chromium, total	mg/L	12/03/15 - 10/25/23	23	74	CB around T-S line	0.00149	0.1	Standard	No Exceedance
G51D	UA	E003	Cobalt, total	mg/L	12/03/15 - 10/25/23	23	17	CB around T-S line	-0.0109	0.006	Standard	No Exceedance
G51D	UA	E003	Fluoride, total	mg/L	12/03/15 - 10/25/23	24	83	CI around median	0.1	4.0	Standard	No Exceedance
G51D	UA	E003	Lead, total	mg/L	12/03/15 - 10/25/23	23	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G51D	UA	E003	Lithium, total	mg/L	12/03/15 - 10/25/23	23	4	CB around T-S line	0.00554	0.04	Standard	No Exceedance
G51D	UA	E003	Mercury, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G51D	UA	E003	Molybdenum, total	mg/L	12/03/15 - 10/25/23	19	95	CB around T-S line	0.001	0.1	Standard	No Exceedance
G51D	UA	E003	pH (field)	SU	12/03/15 - 10/25/23	24	0	CB around T-S line	5.1/5.4	6.0/9.0	Background/Standard	Exceedance
G51D	UA	E003	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 10/25/23	23	0	CI around mean	0.469	5	Standard	No Exceedance
G51D	UA	E003	Selenium, total	mg/L	12/03/15 - 10/25/23	23	4	CB around T-S line	0.00412	0.05	Standard	No Exceedance
G51D	UA	E003	Sulfate, total	mg/L	12/03/15 - 10/25/23	24	0	CI around median	121	400	Standard	No Exceedance
G51D	UA	E003	Thallium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G51D	UA	E003	Total Dissolved Solids	mg/L	12/03/15 - 10/25/23	24	0	CB around linear reg	279	1,200	Standard	No Exceedance
G52D	UA	E003	Antimony, total	mg/L	12/03/15 - 10/24/23	17	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G52D	UA	E003	Arsenic, total	mg/L	12/03/15 - 10/24/23	22	9	CB around linear reg	-0.000569	0.010	Standard	No Exceedance
G52D	UA	E003	Barium, total	mg/L	12/03/15 - 10/24/23	22	0	CB around linear reg	0.134	2.0	Standard	No Exceedance
G52D	UA	E003	Beryllium, total	mg/L	12/03/15 - 10/24/23	17	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G52D	UA	E003	Boron, total	mg/L	12/03/15 - 10/24/23	23	91	CI around median	0.025	2	Standard	No Exceedance
G52D	UA	E003	Cadmium, total	mg/L	12/03/15 - 10/24/23	17	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G52D	UA	E003	Chloride, total	mg/L	12/03/15 - 10/24/23	23	0	CB around linear reg	7.24	200	Standard	No Exceedance
G52D	UA	E003	Chromium, total	mg/L	12/03/15 - 10/24/23	22	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G52D	UA	E003	Cobalt, total	mg/L	12/03/15 - 10/24/23	22	0	CI around mean	0.0029	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G52D	UA	E003	Fluoride, total	mg/L	12/03/15 - 10/24/23	23	0	CI around median	0.24	4.0	Standard	No Exceedance
G52D	UA	E003	Lead, total	mg/L	12/03/15 - 10/24/23	22	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G52D	UA	E003	Lithium, total	mg/L	12/03/15 - 10/24/23	22	46	CI around geomean	0.0025	0.04	Standard	No Exceedance
G52D	UA	E003	Mercury, total	mg/L	12/03/15 - 10/24/23	17	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G52D	UA	E003	Molybdenum, total	mg/L	12/03/15 - 10/24/23	18	78	CI around median	0.0011	0.1	Standard	No Exceedance
G52D	UA	E003	pH (field)	SU	12/03/15 - 10/24/23	23	0	CI around mean	6.2/6.4	6.0/9.0	Background/Standard	No Exceedance
G52D	UA	E003	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 10/24/23	22	0	CI around mean	0.849	5	Standard	No Exceedance
G52D	UA	E003	Selenium, total	mg/L	12/03/15 - 10/24/23	22	96	CI around median	0.001	0.05	Standard	No Exceedance
G52D	UA	E003	Sulfate, total	mg/L	12/03/15 - 10/24/23	23	0	CB around linear reg	53.8	400	Standard	No Exceedance
G52D	UA	E003	Thallium, total	mg/L	12/03/15 - 10/24/23	17	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G52D	UA	E003	Total Dissolved Solids	mg/L	12/03/15 - 10/24/23	23	0	CB around linear reg	277	1,200	Standard	No Exceedance
G53D	UA	E003	Antimony, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G53D	UA	E003	Arsenic, total	mg/L	12/03/15 - 10/25/23	23	100	All ND - Last	0.001	0.010	Standard	No Exceedance
G53D	UA	E003	Barium, total	mg/L	12/03/15 - 10/25/23	23	0	CB around T-S line	-0.0271	2.0	Standard	No Exceedance
G53D	UA	E003	Beryllium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G53D	UA	E003	Boron, total	mg/L	12/03/15 - 10/25/23	24	0	CI around median	0.334	2	Standard	No Exceedance
G53D	UA	E003	Cadmium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G53D	UA	E003	Chloride, total	mg/L	12/03/15 - 10/25/23	24	0	CI around median	18	200	Standard	No Exceedance
G53D	UA	E003	Chromium, total	mg/L	12/03/15 - 10/25/23	23	87	CI around median	0.001	0.1	Standard	No Exceedance
G53D	UA	E003	Cobalt, total	mg/L	12/03/15 - 10/25/23	23	17	CI around median	0.0012	0.006	Standard	No Exceedance
G53D	UA	E003	Fluoride, total	mg/L	12/03/15 - 10/25/23	24	0	CI around mean	0.644	4.0	Standard	No Exceedance
G53D	UA	E003	Lead, total	mg/L	12/03/15 - 10/25/23	23	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G53D	UA	E003	Lithium, total	mg/L	12/03/15 - 10/25/23	23	56	CB around T-S line	0.00267	0.04	Standard	No Exceedance
G53D	UA	E003	Mercury, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G53D	UA	E003	Molybdenum, total	mg/L	12/03/15 - 10/25/23	19	90	CB around T-S line	0.001	0.1	Standard	No Exceedance
G53D	UA	E003	pH (field)	SU	12/03/15 - 10/25/23	24	0	CB around T-S line	6.3/6.5	6.0/9.0	Background/Standard	No Exceedance
G53D	UA	E003	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 10/25/23	23	0	CI around mean	0.363	5	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G53D	UA	E003	Selenium, total	mg/L	12/03/15 - 10/25/23	23	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G53D	UA	E003	Sulfate, total	mg/L	12/03/15 - 10/25/23	24	0	CB around T-S line	44.8	400	Standard	No Exceedance
G53D	UA	E003	Thallium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G53D	UA	E003	Total Dissolved Solids	mg/L	12/03/15 - 10/25/23	24	0	CB around T-S line	258	1,200	Standard	No Exceedance
G54D	UA	E003	Antimony, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G54D	UA	E003	Arsenic, total	mg/L	12/03/15 - 10/25/23	23	48	CB around T-S line	-0.000139	0.010	Standard	No Exceedance
G54D	UA	E003	Barium, total	mg/L	12/03/15 - 10/25/23	23	0	CB around T-S line	0.0624	2.0	Standard	No Exceedance
G54D	UA	E003	Beryllium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G54D	UA	E003	Boron, total	mg/L	12/03/15 - 10/25/23	24	0	CI around mean	0.46	2	Standard	No Exceedance
G54D	UA	E003	Cadmium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G54D	UA	E003	Chloride, total	mg/L	12/03/15 - 10/25/23	24	4	CB around T-S line	15.5	200	Standard	No Exceedance
G54D	UA	E003	Chromium, total	mg/L	12/03/15 - 10/25/23	23	65	CI around median	0.0015	0.1	Standard	No Exceedance
G54D	UA	E003	Cobalt, total	mg/L	12/03/15 - 10/25/23	23	0	CB around linear reg	0.00362	0.006	Standard	No Exceedance
G54D	UA	E003	Fluoride, total	mg/L	12/03/15 - 10/25/23	24	0	CB around linear reg	0.262	4.0	Standard	No Exceedance
G54D	UA	E003	Lead, total	mg/L	12/03/15 - 10/25/23	23	96	CI around median	0.001	0.0075	Standard	No Exceedance
G54D	UA	E003	Lithium, total	mg/L	12/03/15 - 10/25/23	23	17	CB around linear reg	0.00186	0.04	Standard	No Exceedance
G54D	UA	E003	Mercury, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G54D	UA	E003	Molybdenum, total	mg/L	12/03/15 - 10/25/23	19	95	CB around T-S line	0.001	0.1	Standard	No Exceedance
G54D	UA	E003	pH (field)	SU	12/03/15 - 10/25/23	24	0	CI around mean	6.6/6.8	6.0/9.0	Background/Standard	No Exceedance
G54D	UA	E003	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 10/25/23	23	0	CI around geomean	0.513	5	Standard	No Exceedance
G54D	UA	E003	Selenium, total	mg/L	12/03/15 - 10/25/23	23	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G54D	UA	E003	Sulfate, total	mg/L	12/03/15 - 10/25/23	24	0	CB around linear reg	176	400	Standard	No Exceedance
G54D	UA	E003	Thallium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G54D	UA	E003	Total Dissolved Solids	mg/L	12/03/15 - 10/25/23	24	0	CI around mean	492	1,200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Notes:
Compliance Result:

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

Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic 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 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
For pH, the values presented are the lower / upper limits
GWPS = Groundwater Protection Standard
GWPS Source:

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

Background = background concentration (see cover page for additional information)

FIGURES

PROJECT: 169000XXXX | DATED: 10/18/2021 | DESIGNER: STOLZSD

Y:\Mapping\Projects\22\2285\MXD\845_Operating_Permit\Joppa\GMP\Figure 2-1_Proposed Monitoring Well Network.mxd

COMPLIANCE WELL

BACKGROUND WELL

STAFF GAUGE

REGULATED UNIT (SUBJECT UNIT)

PROPERTY BOUNDARY

0 200 400 Feet

MONITORING WELL LOCATION MAP

FIGURE 1

EAST ASH POND
JOPPA POWER PLANT
JOPPA, ILLINOIS

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

ATTACHMENTS

ATTACHMENT A
SUMMARY OF GROUNDWATER ELEVATION DATA
QUARTER 4, 2023

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
G01D	Background	10/23/2023	44.88	319.31
G02D	Background	10/23/2023	45.10	318.55
G03	Compliance	10/23/2023	39.98	317.89
G05	Compliance	10/23/2023	44.92	316.29
G06	Compliance	10/23/2023	41.93	313.31
G07	Compliance	10/23/2023	42.00	311.53
G08	Compliance	10/23/2023	33.15	310.39
G09	Compliance	10/23/2023	41.92	309.78
G10	Compliance	10/23/2023	42.30	311.19
G11	Compliance	10/23/2023	49.30	317.25
G51D	Compliance	10/23/2023	46.04	317.81
G52D	Compliance	10/23/2023	31.11	317.30
G53D	Compliance	10/23/2023	39.82	315.65
G54D	Compliance	10/23/2023	44.38	312.65
XSG01	Water Level	10/23/2023	10.10	361.68

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

ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 4, 2023

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

November 20, 2023

Eric Bauer
Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
TEL: (414) 837-3607
FAX: (414) 837-3608

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: JOP-23Q4 **WorkOrder:** 23100903

Dear Eric Bauer:

TEKLAB, INC received 21 samples for JOP_845_401 on 10/25/2023 5:45:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23

This reporting package includes the following:

Definitions

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Teklab, Inc.
Environmental Laboratory

Definitions

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

Client: Ramboll
Client Project: JOP-23Q4

Work Order: 23100903
Report Date: 20-Nov-23

Cooler Receipt Temp: 2.2 °C

An employee of Teklab, Inc. collected the sample(s).

SG02 is broken and could not be measured on 10/23/23. XSG01 is below the measurement level and could not be recorded on 10/23/23 at 10:10AM. EAH 10/25/23

G54S collection date/time per field file(s). EAH 10/26/23

Per Eric Bauer's request, only JOP_845_401 data is included in this report. EAH 11/20/23

Locations

Collinsville
Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield
Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City
Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air
Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago
Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Accreditations

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-001 **Client Sample ID:** G01D

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 12:44

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**44.88**	ft	1	10/23/2023 12:44	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**180**	NTU	1	10/23/2023 12:44	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**103**	mV	1	10/23/2023 12:44	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**484**	µS/cm	1	10/23/2023 12:44	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**16.9**	°C	1	10/23/2023 12:44	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.83**	mg/L	1	10/23/2023 12:44	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.40**		1	10/23/2023 12:44	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**242**	mg/L	1	10/27/2023 11:51	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 11:51	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**308**	mg/L	1	10/26/2023 14:34	R338395
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**30**	mg/L	1	10/26/2023 10:45	R338345
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.20**	mg/L	1	10/26/2023 13:27	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**13**	mg/L	1	10/26/2023 10:44	R338363
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**33.0**	mg/L	1	10/27/2023 10:48	213822
Magnesium	NELAP	0.0055	0.0500		**9.70**	mg/L	1	10/27/2023 10:48	213822
Potassium	NELAP	0.0400	0.100		**1.34**	mg/L	1	10/27/2023 10:48	213822
Sodium	NELAP	0.0250	0.0500		**77.9**	mg/L	1	10/27/2023 10:48	213822
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 19:44	213822
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 19:44	213822
Barium	NELAP	0.0007	0.0010		**0.188**	mg/L	5	10/27/2023 19:44	213822
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 19:44	213822
Boron	NELAP	0.0092	0.025	J	**0.014**	mg/L	5	10/27/2023 19:44	213822
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 19:44	213822
Chromium	NELAP	0.0008	0.0015		**0.0020**	mg/L	5	10/30/2023 11:56	213822
Cobalt	NELAP	0.0001	0.0010	J	**0.0003**	mg/L	5	10/27/2023 19:44	213822
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 19:44	213822
Lithium	*	0.0015	0.0030		**< 0.0030**	mg/L	5	10/27/2023 19:44	213822
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	10/27/2023 19:44	213822
Selenium	NELAP	0.0006	0.0010		**0.0014**	mg/L	5	10/27/2023 19:44	213822
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/27/2023 19:44	213822

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-001 **Client Sample ID:** G01D

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 12:44

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 10:54	213831

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-002 **Client Sample ID:** G02D

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 13:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**45.10**	ft	1	10/23/2023 13:35	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**91**	NTU	1	10/23/2023 13:35	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**108**	mV	1	10/23/2023 13:35	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**341**	µS/cm	1	10/23/2023 13:35	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.4**	°C	1	10/23/2023 13:35	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**2.90**	mg/L	1	10/23/2023 13:35	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.40**		1	10/23/2023 13:35	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**145**	mg/L	1	10/27/2023 9:51	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 9:51	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**204**	mg/L	1	10/26/2023 10:33	R338395
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**15**	mg/L	1	10/26/2023 10:55	R338345
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.19**	mg/L	1	10/26/2023 12:50	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**22**	mg/L	1	10/26/2023 10:55	R338363
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**34.0**	mg/L	1	10/27/2023 10:49	213822
Magnesium	NELAP	0.0055	0.0500		**9.66**	mg/L	1	10/27/2023 10:49	213822
Potassium	NELAP	0.0400	0.100		**1.10**	mg/L	1	10/27/2023 10:49	213822
Sodium	NELAP	0.0250	0.0500		**32.9**	mg/L	1	10/27/2023 10:49	213822
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 19:50	213822
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 19:50	213822
Barium	NELAP	0.0007	0.0010		**0.170**	mg/L	5	10/27/2023 19:50	213822
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 19:50	213822
Boron	NELAP	0.0092	0.0250		**0.0276**	mg/L	5	10/27/2023 19:50	213822
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 19:50	213822
Chromium	NELAP	0.0008	0.0015	J	**0.0009**	mg/L	5	10/30/2023 12:02	213822
Cobalt	NELAP	0.0001	0.0010	J	**0.0001**	mg/L	5	10/27/2023 19:50	213822
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 19:50	213822
Lithium	*	0.0015	0.0030		**< 0.0030**	mg/L	5	10/27/2023 19:50	213822
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	10/27/2023 19:50	213822
Selenium	NELAP	0.0006	0.0010		**0.0012**	mg/L	5	10/27/2023 19:50	213822
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/27/2023 19:50	213822

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-002 **Client Sample ID:** G02D

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 13:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 10:57	213831

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-003 **Client Sample ID:** G03

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 14:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**39.89**	ft	1	10/23/2023 14:24	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**110**	NTU	1	10/23/2023 14:24	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**130**	mV	1	10/23/2023 14:24	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**411**	µS/cm	1	10/23/2023 14:24	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**16.4**	°C	1	10/23/2023 14:24	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**3.66**	mg/L	1	10/23/2023 14:24	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.40**		1	10/23/2023 14:24	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**138**	mg/L	1	10/27/2023 10:01	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 10:01	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**254**	mg/L	1	10/26/2023 10:33	R338395
SW-846 9036 (TOTAL)									
Sulfate	NELAP	12	20		**61**	mg/L	2	10/26/2023 11:35	R338345
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.20**	mg/L	1	10/26/2023 12:52	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**20**	mg/L	1	10/26/2023 11:30	R338363
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**42.8**	mg/L	1	10/27/2023 10:51	213822
Magnesium	NELAP	0.0055	0.0500		**14.0**	mg/L	1	10/27/2023 10:51	213822
Potassium	NELAP	0.0400	0.100		**1.09**	mg/L	1	10/27/2023 10:51	213822
Sodium	NELAP	0.0250	0.0500		**34.1**	mg/L	1	10/27/2023 10:51	213822
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:35	213822
Arsenic	NELAP	0.0004	0.0010	J	**0.0005**	mg/L	5	10/27/2023 20:35	213822
Barium	NELAP	0.0007	0.0010		**0.0652**	mg/L	5	10/27/2023 20:35	213822
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:35	213822
Boron	NELAP	0.0092	0.0250		**0.269**	mg/L	5	10/27/2023 20:35	213822
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:35	213822
Chromium	NELAP	0.0008	0.0015		**0.0023**	mg/L	5	10/30/2023 12:07	213822
Cobalt	NELAP	0.0001	0.0010	J	**0.0009**	mg/L	5	10/27/2023 20:35	213822
Lead	NELAP	0.0006	0.0010	J	**0.0006**	mg/L	5	10/27/2023 20:35	213822
Lithium	*	0.0015	0.0030	J	**0.0022**	mg/L	5	10/27/2023 20:35	213822
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	10/27/2023 20:35	213822
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:35	213822
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/27/2023 20:35	213822

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-003 **Client Sample ID:** G03

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 14:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 10:59	213831

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-004 **Client Sample ID:** G05

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 14:03

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**44.93**	ft	1	10/24/2023 14:03	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**7.3**	NTU	1	10/24/2023 14:03	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**45**	mV	1	10/24/2023 14:03	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**460**	µS/cm	1	10/24/2023 14:03	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.7**	°C	1	10/24/2023 14:03	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.21**	mg/L	1	10/24/2023 14:03	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.44**		1	10/24/2023 14:03	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**188**	mg/L	1	10/27/2023 11:56	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 11:56	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**358**	mg/L	1	10/27/2023 11:09	R338465
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**92**	mg/L	5	10/27/2023 14:09	R338425
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.44**	mg/L	1	10/26/2023 11:35	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**22**	mg/L	1	10/27/2023 14:03	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**50.4**	mg/L	1	10/27/2023 10:52	213822
Magnesium	NELAP	0.0055	0.0500		**18.0**	mg/L	1	10/27/2023 10:52	213822
Potassium	NELAP	0.0400	0.100		**1.56**	mg/L	1	10/27/2023 10:52	213822
Sodium	NELAP	0.0250	0.0500		**41.8**	mg/L	1	10/27/2023 10:52	213822
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:41	213822
Arsenic	NELAP	0.0004	0.0010	J	**0.0005**	mg/L	5	10/27/2023 20:41	213822
Barium	NELAP	0.0007	0.0010		**0.177**	mg/L	5	10/27/2023 20:41	213822
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:41	213822
Boron	NELAP	0.0092	0.0250		**0.0485**	mg/L	5	10/27/2023 20:41	213822
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:41	213822
Chromium	NELAP	0.0008	0.0015		**< 0.0015**	mg/L	5	10/30/2023 12:13	213822
Cobalt	NELAP	0.0001	0.0010		**0.0020**	mg/L	5	10/27/2023 20:41	213822
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:41	213822
Lithium	*	0.0015	0.0030	J	**0.0023**	mg/L	5	10/27/2023 20:41	213822
Molybdenum	*	0.0010	0.0015		**0.0025**	mg/L	5	10/31/2023 13:42	213822
Selenium	NELAP	0.0006	0.0010	J	**0.0009**	mg/L	5	10/27/2023 20:41	213822
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/27/2023 20:41	213822

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-004 **Client Sample ID:** G05

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 14:03

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 11:01	213831

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-005 **Client Sample ID:** G06

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 13:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**41.92**	ft	1	10/24/2023 13:22	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**18**	NTU	1	10/24/2023 13:22	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**116**	mV	1	10/24/2023 13:22	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**593**	µS/cm	1	10/24/2023 13:22	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.7**	°C	1	10/24/2023 13:22	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.76**	mg/L	1	10/24/2023 13:22	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.57**		1	10/24/2023 13:22	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**168**	mg/L	1	10/27/2023 12:01	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 12:01	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**474**	mg/L	1	10/27/2023 11:09	R338465
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**196**	mg/L	10	10/27/2023 14:17	R338425
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.29**	mg/L	1	10/26/2023 11:37	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**22**	mg/L	1	10/27/2023 14:11	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**82.5**	mg/L	1	10/27/2023 10:54	213822
Magnesium	NELAP	0.0055	0.0500		**22.9**	mg/L	1	10/27/2023 10:54	213822
Potassium	NELAP	0.0400	0.100		**2.42**	mg/L	1	10/27/2023 10:54	213822
Sodium	NELAP	0.0250	0.0500		**44.6**	mg/L	1	10/27/2023 10:54	213822
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:46	213822
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:46	213822
Barium	NELAP	0.0007	0.0010		**0.0363**	mg/L	5	10/27/2023 20:46	213822
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:46	213822
Boron	NELAP	0.0092	0.0250		**3.73**	mg/L	5	10/27/2023 20:46	213822
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:46	213822
Chromium	NELAP	0.0008	0.0015		**0.0019**	mg/L	5	10/30/2023 12:19	213822
Cobalt	NELAP	0.0001	0.0010	J	**0.0007**	mg/L	5	10/27/2023 20:46	213822
Lead	NELAP	0.0006	0.0010	J	**0.0009**	mg/L	5	10/27/2023 20:46	213822
Lithium	*	0.0015	0.0030		**0.0047**	mg/L	5	10/27/2023 20:46	213822
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	10/27/2023 20:46	213822
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:46	213822
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/27/2023 20:46	213822

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-005 **Client Sample ID:** G06

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 13:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 11:03	213831

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-006 **Client Sample ID:** G07

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**42.00**	ft	1	10/24/2023 12:40	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**10**	NTU	1	10/24/2023 12:40	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**131**	mV	1	10/24/2023 12:40	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**709**	µS/cm	1	10/24/2023 12:40	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.8**	°C	1	10/24/2023 12:40	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.88**	mg/L	1	10/24/2023 12:40	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.41**		1	10/24/2023 12:40	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**164**	mg/L	1	10/27/2023 12:06	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 12:06	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**618**	mg/L	1	10/27/2023 11:09	R338465
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**285**	mg/L	10	10/26/2023 11:43	R338345
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.41**	mg/L	1	10/26/2023 13:30	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**21**	mg/L	1	10/26/2023 11:38	R338363
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**95.7**	mg/L	1	10/27/2023 10:56	213822
Magnesium	NELAP	0.0055	0.0500		**23.7**	mg/L	1	10/27/2023 10:56	213822
Potassium	NELAP	0.0400	0.100		**4.00**	mg/L	1	10/27/2023 10:56	213822
Sodium	NELAP	0.0250	0.0500		**67.2**	mg/L	1	10/27/2023 10:56	213822
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:52	213822
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:52	213822
Barium	NELAP	0.0007	0.0010		**0.0429**	mg/L	5	10/27/2023 20:52	213822
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:52	213822
Boron	NELAP	0.0092	0.0250		**5.05**	mg/L	5	10/27/2023 20:52	213822
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:52	213822
Chromium	NELAP	0.0008	0.0015		**< 0.0015**	mg/L	5	10/30/2023 13:04	213822
Cobalt	NELAP	0.0001	0.0010	J	**0.0006**	mg/L	5	10/27/2023 20:52	213822
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:52	213822
Lithium	*	0.0015	0.0030		**0.0031**	mg/L	5	10/27/2023 20:52	213822
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	10/27/2023 20:52	213822
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:52	213822
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/27/2023 20:52	213822

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23
Lab ID: 23100903-006
Client Sample ID: G07
Matrix: GROUNDWATER
Collection Date: 10/24/2023 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 11:06	213831

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-007 **Client Sample ID:** G08

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 12:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**33.13**	ft	1	10/24/2023 12:53	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**24**	NTU	1	10/24/2023 12:53	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**29**	mV	1	10/24/2023 12:53	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**910**	µS/cm	1	10/24/2023 12:53	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**18.2**	°C	1	10/24/2023 12:53	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**3.34**	mg/L	1	10/24/2023 12:53	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.95**		1	10/24/2023 12:53	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**147**	mg/L	1	10/27/2023 12:10	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 12:10	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**660**	mg/L	2.5	10/27/2023 11:10	R338465
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**389**	mg/L	10	10/26/2023 11:51	R338345
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.29**	mg/L	1	10/26/2023 13:32	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**17**	mg/L	1	10/26/2023 11:46	R338363
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**140**	mg/L	1	10/27/2023 10:57	213822
Magnesium	NELAP	0.0055	0.0500		**34.2**	mg/L	1	10/27/2023 10:57	213822
Potassium	NELAP	0.0400	0.100		**1.98**	mg/L	1	10/27/2023 10:57	213822
Sodium	NELAP	0.0250	0.0500		**44.3**	mg/L	1	10/27/2023 10:57	213822
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:57	213822
Arsenic	NELAP	0.0004	0.0010		**0.0145**	mg/L	5	10/27/2023 20:57	213822
Barium	NELAP	0.0007	0.0010		**0.105**	mg/L	5	10/27/2023 20:57	213822
Beryllium	NELAP	0.0002	0.0010	J	**0.0004**	mg/L	5	10/30/2023 13:10	213822
Boron	NELAP	0.0092	0.0250		**5.28**	mg/L	5	10/30/2023 13:10	213822
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:57	213822
Chromium	NELAP	0.0008	0.0015		**0.0065**	mg/L	5	10/30/2023 13:10	213822
Cobalt	NELAP	0.0001	0.0010		**0.0066**	mg/L	5	10/30/2023 13:10	213822
Lead	NELAP	0.0006	0.0010		**0.0032**	mg/L	5	10/27/2023 20:57	213822
Lithium	*	0.0015	0.0030		**0.0032**	mg/L	5	10/30/2023 13:10	213822
Molybdenum	*	0.0006	0.0015		**0.0030**	mg/L	5	10/27/2023 20:57	213822
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 20:57	213822
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/27/2023 20:57	213822

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-007 **Client Sample ID:** G08

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 12:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 11:08	213831

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-008 **Client Sample ID:** G09

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 14:34

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**41.91**	ft	1	10/25/2023 14:34	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**8.1**	NTU	1	10/25/2023 14:34	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-3**	mV	1	10/25/2023 14:34	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**601**	µS/cm	1	10/25/2023 14:34	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**18.1**	°C	1	10/25/2023 14:34	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.90**	mg/L	1	10/25/2023 14:34	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.23**		1	10/25/2023 14:34	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**110**	mg/L	1	10/27/2023 10:52	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 10:52	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**472**	mg/L	1	10/30/2023 11:02	R338538
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**245**	mg/L	10	10/27/2023 14:24	R338425
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.31**	mg/L	1	10/26/2023 11:39	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**17**	mg/L	1	10/27/2023 14:19	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**62.3**	mg/L	1	10/27/2023 11:02	213822
Magnesium	NELAP	0.0055	0.0500		**24.6**	mg/L	1	10/27/2023 11:02	213822
Potassium	NELAP	0.0400	0.100		**0.860**	mg/L	1	10/27/2023 11:02	213822
Sodium	NELAP	0.0250	0.0500		**57.7**	mg/L	1	10/27/2023 11:02	213822
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 21:03	213822
Arsenic	NELAP	0.0004	0.0010		**0.0027**	mg/L	5	10/27/2023 21:03	213822
Barium	NELAP	0.0007	0.0010		**0.0312**	mg/L	5	10/27/2023 21:03	213822
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/30/2023 13:15	213822
Boron	NELAP	0.0092	0.0250		**3.50**	mg/L	5	10/30/2023 13:15	213822
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 21:03	213822
Chromium	NELAP	0.0008	0.0015		**0.0015**	mg/L	5	10/30/2023 13:15	213822
Cobalt	NELAP	0.0001	0.0010		**0.0027**	mg/L	5	10/30/2023 13:15	213822
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 21:03	213822
Lithium	*	0.0015	0.0030		**0.0034**	mg/L	5	10/30/2023 13:15	213822
Molybdenum	*	0.0006	0.0015	J	**0.0007**	mg/L	5	10/27/2023 21:03	213822
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 21:03	213822
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/27/2023 21:03	213822

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-008 **Client Sample ID:** G09

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 14:34

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 11:10	213831

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-009 **Client Sample ID:** G10

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 12:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**42.30**	ft	1	10/24/2023 12:24	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**46**	NTU	1	10/24/2023 12:24	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**23**	mV	1	10/24/2023 12:24	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1100**	µS/cm	1	10/24/2023 12:24	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.4**	°C	1	10/24/2023 12:24	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.49**	mg/L	1	10/24/2023 12:24	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.60**		1	10/24/2023 12:24	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**222**	mg/L	1	10/27/2023 12:34	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 12:34	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**800**	mg/L	1	10/27/2023 11:57	R338465
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**375**	mg/L	10	10/26/2023 12:13	R338345
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.35**	mg/L	1	10/26/2023 13:35	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**26**	mg/L	1	10/26/2023 11:54	R338363
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**117**	mg/L	1	10/27/2023 11:15	213822
Magnesium	NELAP	0.0055	0.0500		**38.3**	mg/L	1	10/27/2023 11:15	213822
Potassium	NELAP	0.200	0.500		**11.3**	mg/L	5	10/30/2023 12:22	213822
Sodium	NELAP	0.0250	0.0500		**85.6**	mg/L	1	10/27/2023 11:15	213822
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 21:08	213822
Arsenic	NELAP	0.0004	0.0010		**0.0026**	mg/L	5	10/27/2023 21:08	213822
Barium	NELAP	0.0007	0.0010		**0.0385**	mg/L	5	10/27/2023 21:08	213822
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 21:08	213822
Boron	NELAP	0.0092	0.0250		**2.35**	mg/L	5	10/27/2023 21:08	213822
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 21:08	213822
Chromium	NELAP	0.0008	0.0015		**0.0036**	mg/L	5	10/30/2023 13:21	213822
Cobalt	NELAP	0.0001	0.0010		**0.0022**	mg/L	5	10/27/2023 21:08	213822
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 21:08	213822
Lithium	*	0.0015	0.0030		**0.0047**	mg/L	5	10/27/2023 21:08	213822
Molybdenum	*	0.0006	0.0015	J	**0.0013**	mg/L	5	10/31/2023 13:47	213822
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 21:08	213822
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/27/2023 21:08	213822

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-009 **Client Sample ID:** G10

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 12:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 11:22	213831

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-010 **Client Sample ID:** G11

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 11:21

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**49.32**	ft	1	10/24/2023 11:21	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**9.0**	NTU	1	10/24/2023 11:21	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**124**	mV	1	10/24/2023 11:21	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**600**	µS/cm	1	10/24/2023 11:21	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**18.0**	°C	1	10/24/2023 11:21	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**2.23**	mg/L	1	10/24/2023 11:21	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**5.88**		1	10/24/2023 11:21	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**87**	mg/L	1	10/27/2023 12:38	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 12:38	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**402**	mg/L	1	10/27/2023 11:57	R338465
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**180**	mg/L	10	10/26/2023 12:20	R338345
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.14**	mg/L	1	10/26/2023 13:37	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**30**	mg/L	1	10/26/2023 12:15	R338363
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**54.4**	mg/L	1	10/27/2023 11:17	213822
Magnesium	NELAP	0.0055	0.0500		**19.8**	mg/L	1	10/27/2023 11:17	213822
Potassium	NELAP	0.0400	0.100		**0.918**	mg/L	1	10/27/2023 11:17	213822
Sodium	NELAP	0.0250	0.0500		**43.2**	mg/L	1	10/27/2023 11:17	213822
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/27/2023 21:14	213822
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/30/2023 13:26	213822
Barium	NELAP	0.0007	0.0010		**0.0217**	mg/L	5	10/27/2023 21:14	213822
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/27/2023 21:14	213822
Boron	NELAP	0.0092	0.0250		**0.282**	mg/L	5	10/27/2023 21:14	213822
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/30/2023 13:26	213822
Chromium	NELAP	0.0008	0.0015	J	**0.0009**	mg/L	5	10/30/2023 13:26	213822
Cobalt	NELAP	0.0001	0.0010	J	**0.0002**	mg/L	5	10/30/2023 13:26	213822
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/27/2023 21:14	213822
Lithium	*	0.0015	0.0030		**0.0035**	mg/L	5	10/27/2023 21:14	213822
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	10/31/2023 13:51	213822
Selenium	NELAP	0.0006	0.0010		**0.0015**	mg/L	5	10/30/2023 13:26	213822
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/27/2023 21:14	213822

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-010 **Client Sample ID:** G11

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 11:21

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 11:24	213831

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-029 **Client Sample ID:** G51D

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 8:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**46.09**	ft	1	10/25/2023 8:42	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**4.0**	NTU	1	10/25/2023 8:42	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**170**	mV	1	10/25/2023 8:42	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**332**	µS/cm	1	10/25/2023 8:42	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.1**	°C	1	10/25/2023 8:42	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.89**	mg/L	1	10/25/2023 8:42	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**5.28**		1	10/25/2023 8:42	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**52**	mg/L	1	10/27/2023 11:05	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 11:05	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**270**	mg/L	1	10/30/2023 11:03	R338538
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**120**	mg/L	5	10/27/2023 15:02	R338425
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.10**	mg/L	1	10/26/2023 11:56	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**4**	mg/L	1	10/27/2023 14:56	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**31.5**	mg/L	1	10/27/2023 17:27	213823
Magnesium	NELAP	0.0055	0.0500		**13.0**	mg/L	1	10/27/2023 17:27	213823
Potassium	NELAP	0.0400	0.100		**0.308**	mg/L	1	10/27/2023 17:27	213823
Sodium	NELAP	0.0180	0.0500		**37.0**	mg/L	1	10/27/2023 17:27	213823
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/28/2023 1:18	213823
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/30/2023 16:21	213823
Barium	NELAP	0.0007	0.0010		**0.0433**	mg/L	5	10/28/2023 1:18	213823
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/30/2023 16:21	213823
Boron	NELAP	0.0092	0.0250		**0.603**	mg/L	5	10/31/2023 14:56	213823
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/30/2023 16:21	213823
Chromium	NELAP	0.0008	0.0015	J	**0.0010**	mg/L	5	10/30/2023 16:21	213823
Cobalt	NELAP	0.0001	0.0010	J	**0.0003**	mg/L	5	10/30/2023 16:21	213823
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/28/2023 1:18	213823
Lithium	*	0.0015	0.0030		**0.0053**	mg/L	5	10/30/2023 16:21	213823
Molybdenum	*	0.0006	0.0015		**0.0015**	mg/L	5	10/31/2023 14:56	213823
Selenium	NELAP	0.0006	0.0010		**0.0041**	mg/L	5	10/30/2023 16:21	213823
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/28/2023 1:18	213823

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23
Lab ID: 23100903-029
Client Sample ID: G51D
Matrix: GROUNDWATER
Collection Date: 10/25/2023 8:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 12:52	213832

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-030 **Client Sample ID:** G52D

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 10:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**31.05**	ft	1	10/24/2023 10:22	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**1.6**	NTU	1	10/24/2023 10:22	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**0**	mV	1	10/24/2023 10:22	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**393**	µS/cm	1	10/24/2023 10:22	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**16.6**	°C	1	10/24/2023 10:22	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.51**	mg/L	1	10/24/2023 10:22	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.33**		1	10/24/2023 10:22	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**152**	mg/L	1	10/27/2023 13:23	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 13:23	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**296**	mg/L	1	10/27/2023 11:59	R338465
SW-846 9036 (TOTAL)									
Sulfate	NELAP	12	20		**52**	mg/L	2	10/26/2023 16:12	R338345
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.29**	mg/L	1	10/26/2023 14:12	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**12**	mg/L	1	10/26/2023 16:01	R338363
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**47.9**	mg/L	1	10/27/2023 17:29	213823
Magnesium	NELAP	0.0055	0.0500		**15.0**	mg/L	1	10/27/2023 17:29	213823
Potassium	NELAP	0.0400	0.100		**0.808**	mg/L	1	10/27/2023 17:29	213823
Sodium	NELAP	0.0180	0.0500		**29.9**	mg/L	1	10/27/2023 17:29	213823
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/28/2023 1:24	213823
Arsenic	NELAP	0.0004	0.0010		**0.0013**	mg/L	5	10/30/2023 17:06	213823
Barium	NELAP	0.0007	0.0010		**0.354**	mg/L	5	10/28/2023 1:24	213823
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/30/2023 17:06	213823
Boron	NELAP	0.0092	0.025	J	**0.021**	mg/L	5	10/31/2023 15:00	213823
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/30/2023 17:06	213823
Chromium	NELAP	0.0008	0.0015		**< 0.0015**	mg/L	5	10/30/2023 17:06	213823
Cobalt	NELAP	0.0001	0.0010		**0.0034**	mg/L	5	10/30/2023 17:06	213823
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/28/2023 1:24	213823
Lithium	*	0.0015	0.0030	J	**0.0024**	mg/L	5	10/30/2023 17:06	213823
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	10/31/2023 15:00	213823
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/30/2023 17:06	213823
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/28/2023 1:24	213823

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-030 **Client Sample ID:** G52D

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 10:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 12:54	213832

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-031 **Client Sample ID:** G53D

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 13:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**39.82**	ft	1	10/25/2023 13:59	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**4.6**	NTU	1	10/25/2023 13:59	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**49**	mV	1	10/25/2023 13:59	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**412**	µS/cm	1	10/25/2023 13:59	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.7**	°C	1	10/25/2023 13:59	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.68**	mg/L	1	10/25/2023 13:59	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.49**		1	10/25/2023 13:59	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**170**	mg/L	1	10/27/2023 11:09	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 11:09	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**312**	mg/L	1	10/30/2023 11:03	R338538
SW-846 9036 (TOTAL)									
Sulfate	NELAP	12	20		**69**	mg/L	2	10/27/2023 15:18	R338425
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.74**	mg/L	1	10/26/2023 11:59	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**18**	mg/L	1	10/27/2023 15:07	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**38.6**	mg/L	1	10/27/2023 17:41	213823
Magnesium	NELAP	0.0055	0.0500		**16.9**	mg/L	1	10/27/2023 17:41	213823
Potassium	NELAP	0.0400	0.100		**0.294**	mg/L	1	10/27/2023 17:41	213823
Sodium	NELAP	0.0180	0.0500		**49.9**	mg/L	1	10/27/2023 17:41	213823
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/28/2023 1:29	213823
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/28/2023 1:29	213823
Barium	NELAP	0.0007	0.0010		**0.107**	mg/L	5	10/28/2023 1:29	213823
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/30/2023 17:12	213823
Boron	NELAP	0.0092	0.0250		**0.349**	mg/L	5	10/31/2023 15:05	213823
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/28/2023 1:29	213823
Chromium	NELAP	0.0008	0.0015	J	**0.0011**	mg/L	5	10/30/2023 17:12	213823
Cobalt	NELAP	0.0001	0.0010		**0.0012**	mg/L	5	10/30/2023 17:12	213823
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/28/2023 1:29	213823
Lithium	*	0.0015	0.0030		**< 0.0030**	mg/L	5	10/30/2023 17:12	213823
Molybdenum	*	0.0006	0.0015	J	**0.0006**	mg/L	5	10/28/2023 1:29	213823
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/28/2023 1:29	213823
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/28/2023 1:29	213823

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-031 **Client Sample ID:** G53D

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 13:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 12:57	213832

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-032 **Client Sample ID:** G54D

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 12:46

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**44.45**	ft	1	10/25/2023 12:46	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**190**	NTU	1	10/25/2023 12:46	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-32**	mV	1	10/25/2023 12:46	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**643**	µS/cm	1	10/25/2023 12:46	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.2**	°C	1	10/25/2023 12:46	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.53**	mg/L	1	10/25/2023 12:46	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.56**		1	10/25/2023 12:46	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**201**	mg/L	1	10/27/2023 11:14	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 11:14	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**502**	mg/L	1	10/30/2023 11:03	R338538
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**192**	mg/L	10	10/27/2023 15:50	R338425
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.31**	mg/L	1	10/26/2023 12:01	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**23**	mg/L	1	10/27/2023 15:44	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**87.5**	mg/L	1	10/27/2023 17:43	213823
Magnesium	NELAP	0.0055	0.0500		**27.6**	mg/L	1	10/27/2023 17:43	213823
Potassium	NELAP	0.0400	0.100		**1.59**	mg/L	1	10/27/2023 17:43	213823
Sodium	NELAP	0.0180	0.0500		**57.4**	mg/L	1	10/27/2023 17:43	213823
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/28/2023 1:35	213823
Arsenic	NELAP	0.0004	0.0010		**0.0013**	mg/L	5	10/28/2023 1:35	213823
Barium	NELAP	0.0007	0.0010		**0.121**	mg/L	5	10/28/2023 1:35	213823
Beryllium	NELAP	0.0002	0.0010	J	**0.0003**	mg/L	5	10/30/2023 17:17	213823
Boron	NELAP	0.0092	0.0250		**0.396**	mg/L	5	10/31/2023 15:10	213823
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/28/2023 1:35	213823
Chromium	NELAP	0.0008	0.0015		**0.0058**	mg/L	5	10/30/2023 17:17	213823
Cobalt	NELAP	0.0001	0.0010		**0.0088**	mg/L	5	10/30/2023 17:17	213823
Lead	NELAP	0.0006	0.0010		**0.0015**	mg/L	5	10/30/2023 17:17	213823
Lithium	*	0.0015	0.0030		**0.0032**	mg/L	5	10/30/2023 17:17	213823
Molybdenum	*	0.0006	0.0015	J	**0.0008**	mg/L	5	10/28/2023 1:35	213823
Selenium	NELAP	0.0006	0.0010	J	**0.0008**	mg/L	5	10/28/2023 1:35	213823
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/28/2023 1:35	213823

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23
Lab ID: 23100903-032
Client Sample ID: G54D
Matrix: GROUNDWATER
Collection Date: 10/25/2023 12:46

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 12:59	213832

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23
Lab ID: 23100903-034
Client Sample ID: SG02
Matrix: GROUNDWATER
Collection Date: 10/23/2023 0:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**Well broken**	ft	1	10/23/2023 0:00	R338500

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-037 **Client Sample ID:** XPW01

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 11:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**3.1**	NTU	1	10/25/2023 11:16	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-177**	mV	1	10/25/2023 11:16	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**803**	µS/cm	1	10/25/2023 11:16	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**19.3**	°C	1	10/25/2023 11:16	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.23**	mg/L	1	10/25/2023 11:16	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**8.41**		1	10/25/2023 11:16	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**84**	mg/L	1	10/27/2023 11:19	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**27**	mg/L	1	10/27/2023 11:19	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**722**	mg/L	1	10/30/2023 11:03	R338538
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		**343**	mg/L	20	11/01/2023 12:24	R338641
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.21**	mg/L	1	10/26/2023 12:03	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**18**	mg/L	1	10/27/2023 15:52	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**175**	mg/L	1	10/27/2023 17:51	213823
Magnesium	NELAP	0.0055	0.0500		**0.260**	mg/L	1	10/27/2023 17:51	213823
Potassium	NELAP	0.400	1.00		**39.4**	mg/L	10	10/30/2023 16:15	213823
Sodium	NELAP	0.0180	0.0500		**33.8**	mg/L	1	10/27/2023 17:51	213823
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/28/2023 2:43	213823
Arsenic	NELAP	0.0004	0.0010		**0.0452**	mg/L	5	10/28/2023 2:43	213823
Barium	NELAP	0.0007	0.0010		**0.160**	mg/L	5	10/28/2023 2:43	213823
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/28/2023 2:43	213823
Boron	NELAP	0.0215	0.0250		**12.8**	mg/L	5	10/28/2023 2:43	213823
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/28/2023 2:43	213823
Chromium	NELAP	0.0008	0.0015	J	**0.0008**	mg/L	5	10/30/2023 17:28	213823
Cobalt	NELAP	0.0001	0.0010	J	**0.0001**	mg/L	5	10/28/2023 2:43	213823
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/28/2023 2:43	213823
Lithium	*	0.0015	0.0030		**< 0.0030**	mg/L	5	10/28/2023 2:43	213823
Molybdenum	*	0.0006	0.0015		**0.323**	mg/L	5	10/28/2023 2:43	213823
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/28/2023 2:43	213823
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/28/2023 2:43	213823
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 13:15	213832

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-038 **Client Sample ID:** XPW02

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 12:03

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**7.4**	NTU	1	10/25/2023 12:03	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-180**	mV	1	10/25/2023 12:03	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**4140**	µS/cm	1	10/25/2023 12:03	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**18.7**	°C	1	10/25/2023 12:03	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.66**	mg/L	1	10/25/2023 12:03	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**7.83**		1	10/25/2023 12:03	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**119**	mg/L	1	10/27/2023 11:25	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 11:25	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**4360**	mg/L	2.5	10/31/2023 15:54	R338603
SW-846 9036 (TOTAL)									
Sulfate	NELAP	614	1000		**2660**	mg/L	100	10/30/2023 13:33	R338498
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.65**	mg/L	1	10/26/2023 12:06	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**119**	mg/L	10	10/27/2023 16:06	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**488**	mg/L	1	10/27/2023 18:00	213823
Magnesium	NELAP	0.0055	0.0500		**9.32**	mg/L	1	10/27/2023 18:00	213823
Potassium	NELAP	0.400	1.00		**26.4**	mg/L	10	10/30/2023 16:17	213823
Sodium	NELAP	0.0180	0.0500		**1090**	mg/L	1	10/27/2023 18:00	213823
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/28/2023 2:49	213823
Arsenic	NELAP	0.0004	0.0010		**0.0441**	mg/L	5	10/28/2023 2:49	213823
Barium	NELAP	0.0007	0.0010		**0.0249**	mg/L	5	10/28/2023 2:49	213823
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/28/2023 2:49	213823
Boron	NELAP	0.0215	0.0250		**14.8**	mg/L	5	10/28/2023 2:49	213823
Cadmium	NELAP	0.0002	0.0010	J	**0.0005**	mg/L	5	10/28/2023 2:49	213823
Chromium	NELAP	0.0008	0.0015	J	**0.0011**	mg/L	5	10/30/2023 17:34	213823
Cobalt	NELAP	0.0001	0.0010	J	**0.0002**	mg/L	5	10/28/2023 2:49	213823
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/30/2023 17:34	213823
Lithium	*	0.0015	0.0030		**0.0766**	mg/L	5	10/28/2023 2:49	213823
Molybdenum	*	0.0024	0.0060		**1.34**	mg/L	20	10/31/2023 16:10	213823
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/28/2023 2:49	213823
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/30/2023 17:34	213823
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 13:17	213832

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-039 **Client Sample ID:** XPW03

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 10:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**1.7**	NTU	1	10/25/2023 10:25	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-88**	mV	1	10/25/2023 10:25	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**563**	µS/cm	1	10/25/2023 10:25	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**19.3**	°C	1	10/25/2023 10:25	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**2.12**	mg/L	1	10/25/2023 10:25	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**10.8**		1	10/25/2023 10:25	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 11:29	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**74**	mg/L	1	10/27/2023 11:29	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**392**	mg/L	1	10/30/2023 11:14	R338538
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**142**	mg/L	5	10/27/2023 16:14	R338425
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.31**	mg/L	1	10/26/2023 12:08	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**26**	mg/L	1	10/27/2023 16:08	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**12.1**	mg/L	1	10/27/2023 18:02	213823
Magnesium	NELAP	0.0055	0.050	J	**0.038**	mg/L	1	10/27/2023 18:02	213823
Potassium	NELAP	0.400	1.00		**25.4**	mg/L	10	10/30/2023 16:18	213823
Sodium	NELAP	0.0180	0.0500		**109**	mg/L	1	10/27/2023 18:02	213823
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**0.0136**	mg/L	5	10/28/2023 2:54	213823
Arsenic	NELAP	0.0004	0.0010		**0.696**	mg/L	5	10/28/2023 2:54	213823
Barium	NELAP	0.0007	0.0010		**0.0164**	mg/L	5	10/28/2023 2:54	213823
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/28/2023 2:54	213823
Boron	NELAP	0.0215	0.0250		**10.0**	mg/L	5	10/28/2023 2:54	213823
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/28/2023 2:54	213823
Chromium	NELAP	0.0008	0.0015		**< 0.0015**	mg/L	5	10/30/2023 17:39	213823
Cobalt	NELAP	0.0001	0.0010		**< 0.0010**	mg/L	5	10/28/2023 2:54	213823
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/28/2023 2:54	213823
Lithium	*	0.0015	0.0030		**0.186**	mg/L	5	10/28/2023 2:54	213823
Molybdenum	*	0.0006	0.0015		**0.334**	mg/L	5	10/28/2023 2:54	213823
Selenium	NELAP	0.0006	0.0010		**0.0389**	mg/L	5	10/28/2023 2:54	213823
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/28/2023 2:54	213823
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 13:19	213832

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23
Lab ID: 23100903-040
Client Sample ID: XSG01
Matrix: GROUNDWATER
Collection Date: 10/23/2023 10:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**10.10**	ft	1	10/23/2023 10:10	R338500

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-041 **Client Sample ID:** Field Blank

Matrix: AQUEOUS **Collection Date:** 10/25/2023 14:31

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**1**	mg/L	1	10/27/2023 11:43	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 11:43	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**< 20**	mg/L	1	10/30/2023 11:49	R338538
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**< 10**	mg/L	1	10/27/2023 16:19	R338425
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10	J	**0.04**	mg/L	1	10/26/2023 12:19	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**< 4**	mg/L	1	10/27/2023 16:19	R338455
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**< 0.100**	mg/L	1	10/27/2023 17:11	213827
Magnesium	NELAP	0.0055	0.0500		**< 0.0500**	mg/L	1	10/27/2023 17:11	213827
Potassium	NELAP	0.0400	0.100		**< 0.100**	mg/L	1	10/27/2023 17:11	213827
Sodium	NELAP	0.018	0.050	J	**0.022**	mg/L	1	10/27/2023 17:11	213827
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	**0.0009**	mg/L	5	10/28/2023 3:00	213827
Arsenic	NELAP	0.0004	0.0010	J	**0.0009**	mg/L	5	10/28/2023 3:00	213827
Barium	NELAP	0.0007	0.0010		**0.0040**	mg/L	5	10/28/2023 3:00	213827
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/28/2023 3:00	213827
Boron	NELAP	0.0092	0.0250		**< 0.0250**	mg/L	5	10/31/2023 15:20	213827
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/28/2023 3:00	213827
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	10/30/2023 18:59	213827
Cobalt	NELAP	0.0001	0.0010	J	**0.0009**	mg/L	5	10/28/2023 3:00	213827
Lead	NELAP	0.0006	0.0010	J	**0.0009**	mg/L	5	10/28/2023 3:00	213827
Lithium	*	0.0015	0.0030	J	**0.0015**	mg/L	5	10/28/2023 3:00	213827
Molybdenum	*	0.0006	0.0015	J	**0.0015**	mg/L	5	10/28/2023 3:00	213827
Selenium	NELAP	0.0006	0.0010	J	**0.0009**	mg/L	5	10/28/2023 3:00	213827
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/28/2023 3:00	213827
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/27/2023 13:21	213832

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

Lab ID: 23100903-042 **Client Sample ID:** G52D Duplicate

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 10:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**31.05**	ft	1	10/24/2023 10:22	R338500
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**1.6**	NTU	1	10/24/2023 10:22	R338500
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**0**	mV	1	10/24/2023 10:22	R338500
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**393**	µS/cm	1	10/24/2023 10:22	R338500
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**16.6**	°C	1	10/24/2023 10:22	R338500
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.51**	mg/L	1	10/24/2023 10:22	R338500
SW-846 9040B FIELD									
pH	*	0	1.00		**6.33**		1	10/24/2023 10:22	R338500
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**156**	mg/L	1	10/27/2023 13:46	R338399
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/27/2023 13:46	R338399
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**286**	mg/L	1	10/27/2023 12:07	R338465
SW-846 9036 (TOTAL)									
Sulfate	NELAP	12	20		**52**	mg/L	2	10/26/2023 16:58	R338345
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.28**	mg/L	1	10/26/2023 13:59	R338332
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**12**	mg/L	1	10/26/2023 16:52	R338363
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**41.4**	mg/L	1	10/27/2023 17:12	213827
Magnesium	NELAP	0.0055	0.0500		**13.4**	mg/L	1	10/27/2023 17:12	213827
Potassium	NELAP	0.0400	0.100		**0.649**	mg/L	1	10/27/2023 17:12	213827
Sodium	NELAP	0.0180	0.0500		**25.8**	mg/L	1	10/27/2023 17:12	213827
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/28/2023 3:11	213827
Arsenic	NELAP	0.0004	0.0010		**0.0014**	mg/L	5	10/28/2023 3:11	213827
Barium	NELAP	0.0007	0.0010		**0.282**	mg/L	5	10/28/2023 3:11	213827
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/28/2023 3:11	213827
Boron	NELAP	0.0092	0.0250		**0.0290**	mg/L	5	11/01/2023 9:59	213827
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/28/2023 3:11	213827
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	10/30/2023 19:10	213827
Cobalt	NELAP	0.0001	0.0010		**0.0042**	mg/L	5	10/28/2023 3:11	213827
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/28/2023 3:11	213827
Lithium	*	0.0015	0.0030	J	**0.0029**	mg/L	5	10/28/2023 3:11	213827
Molybdenum	*	0.0006	0.0015	J	**0.0009**	mg/L	5	10/28/2023 3:11	213827
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/28/2023 3:11	213827
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/28/2023 3:11	213827

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23
Lab ID: 23100903-042
Client Sample ID: G52D Duplicate
Matrix: GROUNDWATER
Collection Date: 10/24/2023 10:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/31/2023 9:19	213967

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

STANDARD METHODS 2510 B FIELD

Batch R338500 **SampType:** LCS Units **µS/cm**
SampID: LCS-R338500-1

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	10/23/2023

Batch R338500 **SampType:** LCS Units **µS/cm**
SampID: LCS-R338500-2

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	10/24/2023

Batch R338500 **SampType:** LCS Units **µS/cm**
SampID: LCS-R338500-3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1410**	1412	0	100.0	90	110	10/25/2023

Batch R338500 **SampType:** LCS Units **µS/cm**
SampID: LCS-R338500-4

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1420**	1412	0	100.2	90	110	10/23/2023

Batch R338500 **SampType:** LCS Units **µS/cm**
SampID: LCS-R338500-5

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	10/24/2023

SW-846 9040B FIELD

Batch R338500 **SampType:** LCS Units
SampID: LCS-R338500-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.05**	7.000	0	100.7	98.57	101.4	10/23/2023

Batch R338500 **SampType:** LCS Units
SampID: LCS-R338500-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.08**	7.000	0	101.1	98.57	101.4	10/24/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 9040B FIELD

Batch R338500 **SampType:** LCS Units

SampID: LCS-R338500-3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.10**	7.000	0	101.4	98.57	101.4	10/25/2023

Batch R338500 **SampType:** LCS Units

SampID: LCS-R338500-4

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.01**	7.000	0	100.1	98.57	101.4	10/23/2023

Batch R338500 **SampType:** LCS Units

SampID: LCS-R338500-5

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.01**	7.000	0	100.1	98.57	101.4	10/24/2023

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R338395 **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	10/26/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/26/2023

Batch R338395 **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		**964**	1000	0	96.4	90	110	10/26/2023
Total Dissolved Solids		20		**976**	1000	0	97.6	90	110	10/26/2023

Batch R338395 **SampType:** DUP Units **mg/L** RPD Limit **10**

SampID: 23100903-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**318**				308.0	3.19	10/26/2023

Batch R338395 **SampType:** DUP Units **mg/L** RPD Limit **10**

SampID: 23100903-002ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**188**				204.0	8.16	10/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R338465 **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	10/27/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/27/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/27/2023

Batch R338465 **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		**964**	1000	0	96.4	90	110	10/27/2023
Total Dissolved Solids		20		**954**	1000	0	95.4	90	110	10/27/2023
Total Dissolved Solids		20		**964**	1000	0	96.4	90	110	10/27/2023

Batch R338465 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23100903-006ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**610**				618.0	1.30	10/27/2023

Batch R338465 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23100903-042ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**290**				286.0	1.39	10/27/2023

Batch R338465 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23091794-098ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		200	H	**13600**				14040	3.33	10/27/2023

Batch R338465 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23100902-003ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**638**				624.0	2.22	10/27/2023

Batch R338465 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23101972-006ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**314**				320.0	1.89	10/27/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R338465 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23102042-002BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**556**				584.0	4.91	10/27/2023

Batch R338538 **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	10/30/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/30/2023

Batch R338538 **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		**908**	1000	0	90.8	90	110	10/30/2023
Total Dissolved Solids		20		**910**	1000	0	91.0	90	110	10/30/2023

Batch R338538 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23100903-031ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**326**				312.0	4.39	10/30/2023

Batch R338538 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23101166-001BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**834**				800.0	4.16	10/30/2023

Batch R338603 **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	10/31/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/31/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/31/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R338603 **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		**964**	1000	0	96.4	90	110	10/31/2023
Total Dissolved Solids		20		**940**	1000	0	94.0	90	110	10/31/2023
Total Dissolved Solids		20		**964**	1000	0	96.4	90	110	10/31/2023

Batch R338603 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23101164-006ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**394**				396.0	0.51	10/31/2023

Batch R338603 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23101166-005BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**1260**				1330	5.41	10/31/2023

Batch R338603 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23102238-012ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**940**				926.0	1.50	10/31/2023

SW-846 9036 (TOTAL)

Batch R338345 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	10/26/2023

Batch R338345 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**20**	20.00	0	99.0	90	110	10/26/2023

Batch R338345 **SampType:** MS Units **mg/L**
SampID: 23100903-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**33**	20.00	14.78	92.0	85	115	10/26/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 9036 (TOTAL)

Batch R338345 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23100903-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10		**34**	20.00	14.78	96.8	33.18	2.88	10/26/2023

Batch R338345 **SampType:** MS Units **mg/L**
SampID: 23100903-018AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20	E	**103**	40.00	64.43	97.0	85	115	10/26/2023

Batch R338345 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23100903-018AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20	E	**106**	40.00	64.43	103.2	103.2	2.38	10/26/2023

Batch R338345 **SampType:** MS Units **mg/L**
SampID: 23100903-025AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	E	**58**	20.00	40.35	89.9	85	115	10/26/2023

Batch R338345 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23100903-025AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	E	**59**	20.00	40.35	93.2	58.33	1.13	10/26/2023

Batch R338345 **SampType:** MS Units **mg/L**
SampID: 23100903-030AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20		**90**	40.00	51.65	95.5	85	115	10/26/2023

Batch R338345 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23100903-030AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20		**91**	40.00	51.65	97.7	89.85	0.96	10/26/2023

Batch R338345 **SampType:** MS Units **mg/Kg-dry**
SampID: 23101757-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		2090		**4120**	4186	0	98.4	85	115	10/26/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23

SW-846 9036 (TOTAL)

Batch R338345 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **10**
SampID: 23101757-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		2090		**4170**	4186	0	99.5	4120	1.13	10/26/2023

Batch R338345 **SampType:** MS Units **mg/L**
SampID: 23101895-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		500		**1520**	1000	589.6	92.9	90	110	10/26/2023

Batch R338345 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23101895-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		500		**1530**	1000	589.6	94.2	1519	0.87	10/26/2023

Batch R338425 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	10/27/2023

Batch R338425 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**19**	20.00	0	95.2	90	110	10/27/2023

Batch R338425 **SampType:** MS Units **mg/L**
SampID: 23100902-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**461**	200.0	269.7	95.4	85	115	10/27/2023

Batch R338425 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23100902-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**467**	200.0	269.7	98.6	460.6	1.35	10/27/2023

Batch R338425 **SampType:** MS Units **mg/L**
SampID: 23100903-031AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20	E	**109**	40.00	68.84	99.6	85	115	10/27/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 9036 (TOTAL)

Batch R338425 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23100903-031AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20	E	**107**	40.00	68.84	94.9	108.7	1.73	10/27/2023

Batch R338425 **SampType:** MS Units **mg/L**
SampID: 23101166-011BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**34**	20.00	16.27	90.2	85	115	10/27/2023

Batch R338425 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23101166-011BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10		**35**	20.00	16.27	93.4	34.31	1.82	10/27/2023

Batch R338425 **SampType:** MS Units **mg/L**
SampID: 23101972-004AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	S	**24**	20.00	10.21	66.7	90	110	10/27/2023

Batch R338425 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23101972-004AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	S	**24**	20.00	10.21	67.8	23.54	1.01	10/27/2023

Batch R338425 **SampType:** MS Units **mg/L**
SampID: 23101972-009AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**37**	20.00	18.34	93.8	90	110	10/27/2023

Batch R338425 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23101972-009AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10		**37**	20.00	18.34	94.8	37.11	0.51	10/27/2023

Batch R338425 **SampType:** MS Units **mg/L**
SampID: 23102042-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**438**	200.0	236.9	100.5	90	110	10/27/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23

SW-846 9036 (TOTAL)

Batch R338425 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23102042-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**435**	200.0	236.9	99.0	437.8	0.67	10/27/2023

Batch R338498 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	10/30/2023

Batch R338498 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**20**	20.00	0	98.7	90	110	10/30/2023

Batch R338498 **SampType:** MS Units **mg/L**
SampID: 23101164-012AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		**168**	100.0	81.48	86.3	85	115	10/30/2023

Batch R338498 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23101164-012AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		**172**	100.0	81.48	90.4	167.7	2.42	10/30/2023

Batch R338498 **SampType:** MS Units **mg/L**
SampID: 23101166-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	S	**29**	20.00	13.54	78.8	85	115	10/30/2023

Batch R338498 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23101166-003BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10		**31**	20.00	13.54	85.2	29.29	4.34	10/30/2023

Batch R338498 **SampType:** MS Units **mg/L**
SampID: 23102238-005AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**427**	200.0	242.5	92.3	85	115	10/30/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 9036 (TOTAL)

Batch R338498 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23102238-005AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**433**	200.0	242.5	95.1	427.1	1.30	10/30/2023

Batch R338498 **SampType:** MS Units **mg/L**
SampID: 23102238-007AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20		**88**	40.00	51.76	90.2	85	115	10/30/2023

Batch R338498 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23102238-007AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20		**88**	40.00	51.76	91.0	87.86	0.32	10/30/2023

Batch R338498 **SampType:** MS Units **mg/L**
SampID: 23102270-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	E	**54**	20.00	35.87	92.4	90	110	10/30/2023

Batch R338498 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23102270-003BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	SE	**53**	20.00	35.87	87.2	54.36	1.93	10/30/2023

Batch R338641 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	11/01/2023

Batch R338641 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**20**	20.00	0	99.4	90	110	11/01/2023

Batch R338641 **SampType:** MS Units **mg/L**
SampID: 23101244-017BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		**172**	100.0	84.88	87.3	85	115	11/01/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 9036 (TOTAL)

Batch R338641 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23101244-017BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		**174**	100.0	84.88	89.3	172.2	1.18	11/01/2023

Batch R338641 **SampType:** MS Units **mg/L**
SampID: 23102241-001DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50	S	**217**	100.0	134.3	82.3	90	110	11/01/2023

Batch R338641 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23102241-001DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50	S	**219**	100.0	134.3	85.2	216.5	1.33	11/01/2023

Batch R338641 **SampType:** MS Units **mg/L**
SampID: 23102414-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**19**	20.00	0	95.6	90	110	11/01/2023

Batch R338641 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23102414-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10		**19**	20.00	0	95.6	19.11	0.05	11/01/2023

SW-846 9214 (TOTAL)

Batch R338332 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**< 0.10**	0.0500	0	0	-100	100	10/26/2023

Batch R338332 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**1.05**	1.000	0	105.4	90	110	10/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 9214 (TOTAL)

Batch R338332 **SampType:** MS Units **mg/L**
SampID: 23100903-008AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.55**	2.000	0.3130	112.1	75	125	10/26/2023

Batch R338332 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-008AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.39**	2.000	0.3130	103.6	2.554	6.80	10/26/2023

Batch R338332 **SampType:** MS Units **mg/L**
SampID: 23100903-025AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.42**	2.000	0.2710	107.2	75	125	10/26/2023

Batch R338332 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-025AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.38**	2.000	0.2710	105.2	2.415	1.63	10/26/2023

Batch R338332 **SampType:** MS Units **mg/L**
SampID: 23100903-028AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.28**	2.000	0.2630	100.7	75	125	10/26/2023

Batch R338332 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-028AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.37**	2.000	0.2630	105.5	2.276	4.17	10/26/2023

Batch R338332 **SampType:** MS Units **mg/L**
SampID: 23100903-039AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.06**	2.000	0.3140	87.4	75	125	10/26/2023

Batch R338332 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-039AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.12**	2.000	0.3140	90.1	2.061	2.63	10/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 9214 (TOTAL)

Batch R338332 **SampType:** MS Units **mg/L**
SampID: 23100903-041AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.12**	2.000	0.03700	104.2	75	125	10/26/2023

Batch R338332 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-041AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.07**	2.000	0.03700	101.8	2.122	2.29	10/26/2023

Batch R338332 **SampType:** MS Units **mg/L**
SampID: 23100903-042AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.33**	2.000	0.2840	102.2	75	125	10/26/2023

Batch R338332 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-042AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.30**	2.000	0.2840	101.0	2.328	0.99	10/26/2023

Batch R338332 **SampType:** MS Units **mg/L**
SampID: 23100903-043AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.16**	2.000	0.2540	95.4	75	125	10/26/2023

Batch R338332 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-043AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.21**	2.000	0.2540	97.8	2.162	2.24	10/26/2023

SW-846 9251 (TOTAL)

Batch R338363 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	10/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 9251 (TOTAL)

Batch R338363 **SampType:** MBLK Units **mg/Kg**
SampID: MB-R338363

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride	*	40		**< 40**	0.5000	0	0	-100	100	10/26/2023

Batch R338363 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	100.6	90	110	10/26/2023

Batch R338363 **SampType:** LCS Units **mg/Kg**
SampID: LCS-R338363

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride	*	40	J	**20**	20.00	0	100.6	90	110	10/26/2023

Batch R338363 **SampType:** MS Units **mg/L**
SampID: 23100903-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**40**	20.00	21.82	90.0	85	115	10/26/2023

Batch R338363 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**40**	20.00	21.82	90.6	39.82	0.33	10/26/2023

Batch R338363 **SampType:** MS Units **mg/L**
SampID: 23100903-018AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**36**	20.00	17.17	92.6	85	115	10/26/2023

Batch R338363 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-018AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**36**	20.00	17.17	93.0	35.68	0.22	10/26/2023

Batch R338363 **SampType:** MS Units **mg/L**
SampID: 23100903-025AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**39**	20.00	20.92	91.8	85	115	10/26/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23

SW-846 9251 (TOTAL)

Batch R338363 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-025AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**39**	20.00	20.92	92.8	39.29	0.46	10/26/2023

Batch R338363 **SampType:** MS Units **mg/L**
SampID: 23100903-030AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**30**	20.00	11.59	94.4	85	115	10/26/2023

Batch R338363 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-030AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**30**	20.00	11.59	94.3	30.46	0.03	10/26/2023

Batch R338363 **SampType:** MS Units **mg/Kg-dry**
SampID: 23101757-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride	*	837		**4220**	4186	161.4	96.9	85	115	10/26/2023

Batch R338363 **SampType:** MSD Units **mg/Kg-dry** RPD Limit **15**
SampID: 23101757-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride	*	837		**4200**	4186	161.4	96.4	4220	0.51	10/26/2023

Batch R338455 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	10/27/2023

Batch R338455 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	99.9	90	110	10/27/2023

Batch R338455 **SampType:** MS Units **mg/L**
SampID: 23100902-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		20		**123**	100.0	25.81	97.6	85	115	10/27/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23

SW-846 9251 (TOTAL)

Batch R338455 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100902-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		20		**125**	100.0	25.81	98.8	123.4	0.95	10/27/2023

Batch R338455 **SampType:** MS Units **mg/L**
SampID: 23100903-031AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**36**	20.00	17.56	92.6	85	115	10/27/2023

Batch R338455 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-031AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**36**	20.00	17.56	92.4	36.09	0.14	10/27/2023

Batch R338455 **SampType:** MS Units **mg/L**
SampID: 23101166-011BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4	E	**51**	20.00	31.94	96.4	85	115	10/27/2023

Batch R338455 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23101166-011BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4	E	**52**	20.00	31.94	98.6	51.22	0.87	10/27/2023

Batch R338455 **SampType:** MS Units **mg/L**
SampID: 23101972-004AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**34**	20.00	14.15	97.1	85	115	10/27/2023

Batch R338455 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23101972-004AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**34**	20.00	14.15	97.6	33.57	0.33	10/27/2023

Batch R338455 **SampType:** MS Units **mg/L**
SampID: 23101972-009AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4	E	**51**	20.00	31.56	97.8	85	115	10/27/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 9251 (TOTAL)

Batch R338455 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23101972-009AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4	E	**51**	20.00	31.56	98.6	51.11	0.35	10/27/2023

Batch R338509 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	10/30/2023

Batch R338509 **SampType:** MBLK Units **mg/L**
SampID: MBLK-179572

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride	*	4		**< 4**	0.5000	0	0	-100	100	10/30/2023

Batch R338509 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213850

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride	*	4		**< 4**	0.5000	0	0	-100	100	10/30/2023

Batch R338509 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**21**	20.00	0	102.9	90	110	10/30/2023

Batch R338509 **SampType:** MS Units **mg/L**
SampID: 23101164-004AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		8	S	**91**	40.00	56.73	84.7	85	115	10/30/2023

Batch R338509 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23101164-004AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		8	S	**88**	40.00	56.73	79.1	90.62	2.51	10/30/2023

Batch R338509 **SampType:** MS Units **mg/L**
SampID: 23101166-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**30**	20.00	11.24	93.0	85	115	10/30/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll
Work Order: 23100903
Client Project: JOP-23Q4
Report Date: 20-Nov-23

SW-846 9251 (TOTAL)

Batch R338509 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23101166-003BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**30**	20.00	11.24	93.9	29.84	0.60	10/30/2023

Batch R338509 **SampType:** MS Units **mg/L**
SampID: 23102238-005AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**28**	20.00	8.440	95.9	85	115	10/30/2023

Batch R338509 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23102238-005AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**28**	20.00	8.440	96.7	27.62	0.54	10/30/2023

Batch R338509 **SampType:** MS Units **mg/L**
SampID: 23102238-007AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**35**	20.00	17.01	90.8	85	115	10/30/2023

Batch R338509 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23102238-007AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**35**	20.00	17.01	91.8	35.17	0.54	10/30/2023

Batch R338509 **SampType:** MS Units **mg/L**
SampID: 23102241-001DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		8		**60**	40.00	16.51	109.1	85	115	10/30/2023

Batch R338509 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23102241-001DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		8		**61**	40.00	16.51	112.1	60.15	1.99	10/30/2023

Batch R338509 **SampType:** MS Units **mg/L**
SampID: 23102270-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40		**259**	200.0	67.45	95.8	85	115	10/30/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 9251 (TOTAL)

Batch R338509 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23102270-003BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		40		**262**	200.0	67.45	97.2	259.0	1.13	10/30/2023

Batch R338688 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	11/01/2023

Batch R338688 **SampType:** MBLK Units **mg/L**
SampID: MBLK-214041

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride	*	4		**< 4**	0.5000	0	0	-100	100	11/02/2023

Batch R338688 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**21**	20.00	0	103.0	90	110	11/01/2023

Batch R338688 **SampType:** MS Units **mg/L**
SampID: 23101164-012AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40		**275**	200.0	89.69	92.5	85	115	11/01/2023

Batch R338688 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23101164-012AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		40		**277**	200.0	89.69	93.7	274.6	0.90	11/01/2023

Batch R338688 **SampType:** MS Units **mg/L**
SampID: 23101244-017BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**35**	20.00	17.50	87.4	85	115	11/01/2023

Batch R338688 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23101244-017BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**35**	20.00	17.50	87.9	34.99	0.26	11/01/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 9251 (TOTAL)

Batch R338688 **SampType:** MS Units **mg/L**
SampID: 23101244-036AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**26**	20.00	7.030	96.8	85	115	11/01/2023

Batch R338688 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23101244-036AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**26**	20.00	7.030	94.3	26.38	1.91	11/01/2023

Batch R338688 **SampType:** MS Units **mg/L**
SampID: 23102399-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**36**	20.00	18.06	88.0	85	115	11/01/2023

Batch R338688 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23102399-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**36**	20.00	18.06	87.2	35.67	0.48	11/01/2023

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 213822 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213822

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	10/27/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/27/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/27/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/27/2023

Batch 213822 **SampType:** LCS Units **mg/L**
SampID: LCS-213822

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.67**	2.500	0	106.8	85	115	10/27/2023
Magnesium		0.0500		**2.41**	2.500	0	96.4	85	115	10/27/2023
Potassium		0.100		**2.67**	2.500	0	106.7	85	115	10/27/2023
Sodium		0.0500		**2.61**	2.500	0	104.3	85	115	10/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 213822 **SampType:** MS Units **mg/L**
SampID: 23100903-013BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**79.8**	2.500	78.06	70.4	75	125	10/27/2023
Magnesium		0.0500		**23.8**	2.500	21.61	87.3	75	125	10/27/2023
Potassium		0.100		**4.28**	2.500	1.699	103.1	75	125	10/27/2023
Sodium		0.0500		**32.5**	2.500	30.20	91.6	75	125	10/27/2023

Batch 213822 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23100903-013BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		**79.9**	2.500	78.06	75.2	79.82	0.15	10/27/2023
Magnesium		0.0500		**23.8**	2.500	21.61	86.7	23.80	0.07	10/27/2023
Potassium		0.100		**4.25**	2.500	1.699	102.1	4.276	0.60	10/27/2023
Sodium		0.0500		**32.1**	2.500	30.20	76.8	32.49	1.15	10/27/2023

Batch 213823 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213823

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	10/30/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/30/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/27/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/27/2023

Batch 213823 **SampType:** LCS Units **mg/L**
SampID: LCS-213823

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.68**	2.500	0	107.1	85	115	10/30/2023
Magnesium		0.0500		**2.56**	2.500	0	102.4	85	115	10/27/2023
Potassium		0.100		**2.83**	2.500	0	113.1	85	115	10/27/2023
Sodium		0.0500		**2.77**	2.500	0	110.8	85	115	10/27/2023

Batch 213823 **SampType:** MS Units **mg/L**
SampID: 23100903-021BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**90.9**	2.500	87.59	131.6	75	125	10/27/2023
Magnesium		0.0500		**24.8**	2.500	22.13	108.9	75	125	10/27/2023
Potassium		0.100		**4.35**	2.500	1.423	117.0	75	125	10/27/2023
Sodium		0.0500		**25.1**	2.500	22.53	102.8	75	125	10/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 213823 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23100903-021BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**92.4**	2.500	87.59	194.4	90.88	1.71	10/27/2023
Magnesium		0.0500	S	**25.3**	2.500	22.13	126.0	24.85	1.70	10/27/2023
Potassium		0.100		**4.40**	2.500	1.423	118.9	4.348	1.11	10/27/2023
Sodium		0.0500		**25.5**	2.500	22.53	118.8	25.10	1.58	10/27/2023

Batch 213823 **SampType:** MS Units **mg/L**

SampID: 23100903-036BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**145**	2.500	143.2	67.2	75	125	10/27/2023
Magnesium		0.0500		**61.4**	2.500	59.36	81.7	75	125	10/27/2023
Potassium		0.100		**3.80**	2.500	0.8912	116.3	75	125	10/27/2023
Sodium		0.0500		**25.1**	2.500	23.14	77.6	75	125	10/27/2023

Batch 213823 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23100903-036BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**144**	2.500	143.2	14.8	144.8	0.91	10/27/2023
Magnesium		0.0500	S	**61.1**	2.500	59.36	68.9	61.40	0.52	10/27/2023
Potassium		0.100		**3.78**	2.500	0.8912	115.5	3.798	0.50	10/27/2023
Sodium		0.0500		**25.2**	2.500	23.14	81.2	25.08	0.36	10/27/2023

Batch 213827 **SampType:** MBLK Units **mg/L**

SampID: MBLK-213827

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	10/27/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/27/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/27/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/27/2023

Batch 213827 **SampType:** LCS Units **mg/L**

SampID: LCS-213827

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.47**	2.500	0	99.0	85	115	10/27/2023
Magnesium		0.0500		**2.40**	2.500	0	95.9	85	115	10/27/2023
Potassium		0.100		**2.56**	2.500	0	102.2	85	115	10/27/2023
Sodium		0.0500		**2.44**	2.500	0	97.4	85	115	10/27/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 213827 **SampType:** MS Units **mg/L**
SampID: 23100903-042BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**44.1**	2.500	41.41	107.2	75	125	10/27/2023
Magnesium		0.0500		**15.9**	2.500	13.38	98.6	75	125	10/27/2023
Potassium		0.100		**3.19**	2.500	0.6489	101.5	75	125	10/27/2023
Sodium		0.0500		**28.4**	2.500	25.82	102.8	75	125	10/27/2023

Batch 213827 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23100903-042BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		**44.2**	2.500	41.41	113.2	44.09	0.34	10/27/2023
Magnesium		0.0500		**16.0**	2.500	13.38	104.6	15.85	0.94	10/27/2023
Potassium		0.100		**3.20**	2.500	0.6489	102.2	3.187	0.53	10/27/2023
Sodium		0.0500		**28.5**	2.500	25.82	108.8	28.39	0.53	10/27/2023

Batch 213827 **SampType:** MS Units **mg/L**
SampID: 23102022-011BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**152**	2.500	151.8	24.4	75	125	10/27/2023

Batch 213827 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23102022-011BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**152**	2.500	151.8	14.0	152.4	0.17	10/27/2023

Batch 214004 **SampType:** MBLK Units **mg/L**
SampID: MBLK-214004

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	11/01/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	11/01/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	11/01/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	11/01/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 214004 **SampType:** LCS Units **mg/L**

SampID: LCS-214004

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.56**	2.500	0	102.5	85	115	11/01/2023
Magnesium		0.0500		**2.35**	2.500	0	94.0	85	115	11/01/2023
Potassium		0.100		**2.58**	2.500	0	103.0	85	115	11/01/2023
Sodium		0.0500		**2.47**	2.500	0	98.7	85	115	11/01/2023

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213822 **SampType:** MBLK Units **mg/L**

SampID: MBLK-213822

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/27/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/27/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/30/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	10/27/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	10/27/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	10/27/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	10/27/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	10/30/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	10/27/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/27/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	10/27/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	10/27/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/27/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	10/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213822 **SampType:** LCS Units **mg/L**
SampID: LCS-213822

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**0.531**	0.5000	0	106.2	80	120	10/27/2023
Arsenic		0.0010		**0.520**	0.5000	0	104.0	80	120	10/27/2023
Arsenic		0.0010		**0.510**	0.5000	0	102.1	80	120	10/30/2023
Barium		0.0010		**2.11**	2.000	0	105.7	80	120	10/27/2023
Beryllium		0.0010		**0.0472**	0.0500	0	94.4	80	120	10/27/2023
Boron		0.0250		**0.469**	0.5000	0	93.8	80	120	10/27/2023
Cadmium		0.0010		**0.0515**	0.0500	0	102.9	80	120	10/27/2023
Chromium		0.0015		**0.204**	0.2000	0	101.8	80	120	10/30/2023
Cobalt		0.0010		**0.513**	0.5000	0	102.7	80	120	10/27/2023
Lead		0.0010		**0.500**	0.5000	0	99.9	80	120	10/27/2023
Lithium	*	0.0030		**0.477**	0.5000	0	95.4	80	120	10/27/2023
Molybdenum	*	0.0015		**0.486**	0.5000	0	97.2	80	120	10/27/2023
Selenium		0.0010		**0.497**	0.5000	0	99.4	80	120	10/27/2023
Thallium		0.0020		**0.234**	0.2500	0	93.5	80	120	10/27/2023

Batch 213822 **SampType:** MS Units **mg/L**
SampID: 23100902-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		**0.522**	0.5000	0	104.4	75	125	10/30/2023
Cobalt		0.0010		**0.497**	0.5000	0.0007581	99.3	75	125	10/27/2023
Lead		0.0010		**0.505**	0.5000	0	101.1	75	125	10/27/2023
Lithium	*	0.0030		**0.477**	0.5000	0.003701	94.7	75	125	10/27/2023

Batch 213822 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23100902-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		**0.524**	0.5000	0	104.7	0.5222	0.27	10/30/2023
Cobalt		0.0010		**0.494**	0.5000	0.0007581	98.6	0.4974	0.76	10/27/2023
Lead		0.0010		**0.492**	0.5000	0	98.3	0.5054	2.77	10/27/2023
Lithium	*	0.0030		**0.474**	0.5000	0.003701	94.1	0.4770	0.63	10/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213822 **SampType:** MS Units **mg/L**

SampID: 23100903-013BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**0.507**	0.5000	0	101.4	75	125	10/30/2023
Arsenic		0.0010		**0.529**	0.5000	0	105.8	75	125	10/30/2023
Barium		0.0010		**2.03**	2.000	0.02839	100.1	75	125	10/30/2023
Beryllium		0.0010		**0.0512**	0.0500	0	102.4	75	125	10/30/2023
Boron		0.0250	S	**4.61**	0.5000	3.642	194.2	75	125	10/30/2023
Cadmium		0.0010		**0.0492**	0.0500	0	98.4	75	125	10/30/2023
Chromium		0.0015		**0.200**	0.2000	0.001134	99.2	75	125	10/30/2023
Cobalt		0.0010		**0.488**	0.5000	0	97.5	75	125	10/30/2023
Lead		0.0010		**0.476**	0.5000	0	95.2	75	125	10/27/2023
Lithium	*	0.0030		**0.535**	0.5000	0	107.1	75	125	10/30/2023
Molybdenum	*	0.0015		**0.486**	0.5000	0	97.3	75	125	10/31/2023
Selenium		0.0010		**0.480**	0.5000	0	96.1	75	125	10/30/2023
Thallium		0.0020		**0.237**	0.2500	0	94.8	75	125	10/27/2023

Batch 213822 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23100903-013BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		**0.499**	0.5000	0	99.8	0.5072	1.59	10/30/2023
Arsenic		0.0010		**0.514**	0.5000	0	102.8	0.5288	2.86	10/30/2023
Barium		0.0010		**2.01**	2.000	0.02839	99.0	2.031	1.10	10/30/2023
Beryllium		0.0010		**0.0504**	0.0500	0	100.9	0.05118	1.44	10/30/2023
Boron		0.0250	S	**4.59**	0.5000	3.642	189.1	4.613	0.56	10/30/2023
Cadmium		0.0010		**0.0485**	0.0500	0	97.0	0.04922	1.49	10/30/2023
Chromium		0.0015		**0.196**	0.2000	0.001134	97.6	0.1996	1.59	10/30/2023
Cobalt		0.0010		**0.487**	0.5000	0	97.5	0.4876	0.06	10/30/2023
Lead		0.0010		**0.490**	0.5000	0	98.1	0.4760	2.95	10/27/2023
Lithium	*	0.0030		**0.536**	0.5000	0	107.1	0.5353	0.06	10/30/2023
Molybdenum	*	0.0015		**0.475**	0.5000	0	95.0	0.4864	2.34	10/31/2023
Selenium		0.0010		**0.463**	0.5000	0	92.6	0.4804	3.65	10/30/2023
Thallium		0.0020		**0.226**	0.2500	0	90.6	0.2370	4.56	10/27/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213823 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213823

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/27/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/27/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	10/27/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	10/27/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	10/27/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	10/27/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	10/30/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	10/27/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/27/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	10/27/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	10/27/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/27/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	10/27/2023

Batch 213823 **SampType:** LCS Units **mg/L**
SampID: LCS-213823

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**0.528**	0.5000	0	105.6	80	120	10/27/2023
Arsenic		0.0010		**0.530**	0.5000	0	106.0	80	120	10/27/2023
Barium		0.0010		**2.08**	2.000	0	103.8	80	120	10/27/2023
Beryllium		0.0010		**0.0466**	0.0500	0	93.3	80	120	10/27/2023
Boron		0.0250		**0.451**	0.5000	0	90.3	80	120	10/27/2023
Cadmium		0.0010		**0.0506**	0.0500	0	101.2	80	120	10/27/2023
Chromium		0.0015		**0.197**	0.2000	0	98.3	80	120	10/30/2023
Cobalt		0.0010		**0.523**	0.5000	0	104.5	80	120	10/27/2023
Lead		0.0010		**0.484**	0.5000	0	96.8	80	120	10/27/2023
Lithium	*	0.0030		**0.464**	0.5000	0	92.8	80	120	10/27/2023
Molybdenum	*	0.0015		**0.481**	0.5000	0	96.2	80	120	10/27/2023
Selenium		0.0010		**0.487**	0.5000	0	97.4	80	120	10/27/2023
Thallium		0.0020		**0.233**	0.2500	0	93.0	80	120	10/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213823 **SampType:** MS Units **mg/L**

SampID: 23100903-021BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**0.505**	0.5000	0	101.1	75	125	10/30/2023
Arsenic		0.0010		**0.495**	0.5000	0	98.9	75	125	10/30/2023
Barium		0.0010		**2.08**	2.000	0.07989	99.9	75	125	10/30/2023
Beryllium		0.0010		**0.0480**	0.0500	0	95.9	75	125	10/30/2023
Cadmium		0.0010		**0.0482**	0.0500	0	96.4	75	125	10/30/2023
Chromium		0.0015		**0.192**	0.2000	0.0009109	95.5	75	125	10/30/2023
Cobalt		0.0010		**0.468**	0.5000	0.0001988	93.5	75	125	10/30/2023
Lead		0.0010		**0.477**	0.5000	0	95.4	75	125	10/28/2023
Lithium	*	0.0030		**0.502**	0.5000	0	100.4	75	125	10/30/2023
Selenium		0.0010		**0.456**	0.5000	0	91.3	75	125	10/30/2023
Thallium		0.0020		**0.224**	0.2500	0	89.5	75	125	10/28/2023

Batch 213823 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23100903-021BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		**0.518**	0.5000	0	103.6	0.5053	2.47	10/30/2023
Arsenic		0.0010		**0.514**	0.5000	0	102.9	0.4945	3.96	10/30/2023
Barium		0.0010		**2.12**	2.000	0.07989	102.2	2.078	2.18	10/30/2023
Beryllium		0.0010		**0.0486**	0.0500	0	97.2	0.04797	1.25	10/30/2023
Cadmium		0.0010		**0.0494**	0.0500	0	98.8	0.04822	2.43	10/30/2023
Chromium		0.0015		**0.198**	0.2000	0.0009109	98.4	0.1919	2.99	10/30/2023
Cobalt		0.0010		**0.481**	0.5000	0.0001988	96.2	0.4679	2.84	10/30/2023
Lead		0.0010		**0.487**	0.5000	0	97.5	0.4769	2.18	10/28/2023
Lithium	*	0.0030		**0.512**	0.5000	0	102.5	0.5019	2.06	10/30/2023
Selenium		0.0010		**0.475**	0.5000	0	95.0	0.4564	3.98	10/30/2023
Thallium		0.0020		**0.242**	0.2500	0	96.8	0.2238	7.86	10/28/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213823 **SampType:** MS Units **mg/L**

SampID: 23100903-036BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**0.516**	0.5000	0	103.2	75	125	10/30/2023
Arsenic		0.0010		**0.518**	0.5000	0.0004583	103.5	75	125	10/30/2023
Barium		0.0010		**2.09**	2.000	0.02896	103.0	75	125	10/30/2023
Beryllium		0.0010		**0.0480**	0.0500	0	96.1	75	125	10/30/2023
Boron		0.0250		**0.611**	0.5000	0.1170	98.7	75	125	10/31/2023
Cadmium		0.0010		**0.0486**	0.0500	0	97.3	75	125	10/30/2023
Chromium		0.0015		**0.198**	0.2000	0.001139	98.2	75	125	10/30/2023
Cobalt		0.0010		**0.485**	0.5000	0.0003618	97.0	75	125	10/30/2023
Lead		0.0010		**0.489**	0.5000	0	97.8	75	125	10/28/2023
Lithium	*	0.0030		**0.496**	0.5000	0.001557	98.8	75	125	10/30/2023
Molybdenum	*	0.0015		**0.480**	0.5000	0	95.9	75	125	10/31/2023
Selenium		0.0010		**0.478**	0.5000	0.001802	95.2	75	125	10/30/2023
Thallium		0.0020		**0.236**	0.2500	0	94.4	75	125	10/28/2023

Batch 213823 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23100903-036BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		**0.515**	0.5000	0	103.0	0.5161	0.22	10/30/2023
Arsenic		0.0010		**0.517**	0.5000	0.0004583	103.3	0.5180	0.18	10/30/2023
Barium		0.0010		**2.07**	2.000	0.02896	101.9	2.089	1.09	10/30/2023
Beryllium		0.0010		**0.0487**	0.0500	0	97.3	0.04805	1.25	10/30/2023
Boron		0.0250		**0.607**	0.5000	0.1170	98.1	0.6105	0.50	10/31/2023
Cadmium		0.0010		**0.0484**	0.0500	0	96.9	0.04864	0.42	10/30/2023
Chromium		0.0015		**0.189**	0.2000	0.001139	94.2	0.1975	4.18	10/30/2023
Cobalt		0.0010		**0.483**	0.5000	0.0003618	96.5	0.4854	0.55	10/30/2023
Lead		0.0010		**0.467**	0.5000	0	93.4	0.4891	4.65	10/28/2023
Lithium	*	0.0030		**0.495**	0.5000	0.001557	98.6	0.4956	0.17	10/30/2023
Molybdenum	*	0.0015		**0.470**	0.5000	0	94.1	0.4797	1.96	10/31/2023
Selenium		0.0010		**0.471**	0.5000	0.001802	93.8	0.4776	1.39	10/30/2023
Thallium		0.0020		**0.238**	0.2500	0	95.3	0.2359	1.05	10/28/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213827 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213827

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/28/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/28/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	10/28/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	10/28/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	10/28/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	10/28/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	10/30/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	10/28/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/28/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	10/28/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	10/28/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/28/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	10/28/2023

Batch 213827 **SampType:** LCS Units **mg/L**
SampID: LCS-213827

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**0.506**	0.5000	0	101.2	80	120	10/28/2023
Arsenic		0.0010		**0.504**	0.5000	0	100.8	80	120	10/28/2023
Barium		0.0010		**1.99**	2.000	0	99.3	80	120	10/28/2023
Beryllium		0.0010		**0.0450**	0.0500	0	90.1	80	120	10/28/2023
Boron		0.0250		**0.474**	0.5000	0	94.8	80	120	10/28/2023
Cadmium		0.0010		**0.0481**	0.0500	0	96.2	80	120	10/28/2023
Chromium		0.0015		**0.196**	0.2000	0	97.8	80	120	10/30/2023
Cobalt		0.0010		**0.494**	0.5000	0	98.8	80	120	10/28/2023
Lead		0.0010		**0.477**	0.5000	0	95.4	80	120	10/28/2023
Lithium	*	0.0030		**0.464**	0.5000	0	92.8	80	120	10/28/2023
Molybdenum	*	0.0015		**0.466**	0.5000	0	93.3	80	120	10/28/2023
Selenium		0.0010		**0.463**	0.5000	0	92.7	80	120	10/28/2023
Thallium		0.0020		**0.234**	0.2500	0	93.6	80	120	10/28/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213827 **SampType:** MS Units **mg/L**

SampID: 23100903-042BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**0.513**	0.5000	0	102.7	75	125	10/28/2023
Arsenic		0.0010		**0.532**	0.5000	0.001421	106.2	75	125	10/28/2023
Barium		0.0010		**2.27**	2.000	0.2822	99.6	75	125	10/28/2023
Beryllium		0.0010		**0.0454**	0.0500	0	90.7	75	125	10/28/2023
Boron		0.0250		**0.597**	0.5000	0.02899	113.7	75	125	11/01/2023
Cadmium		0.0010		**0.0487**	0.0500	0	97.4	75	125	10/28/2023
Chromium		0.0015		**0.193**	0.2000	0	96.6	75	125	10/30/2023
Cobalt		0.0010		**0.498**	0.5000	0.004186	98.8	75	125	10/28/2023
Lead		0.0010		**0.490**	0.5000	0	98.0	75	125	10/28/2023
Lithium	*	0.0030		**0.450**	0.5000	0.002859	89.5	75	125	10/28/2023
Molybdenum	*	0.0015		**0.475**	0.5000	0.0009315	94.8	75	125	10/28/2023
Selenium		0.0010		**0.480**	0.5000	0	96.0	75	125	10/28/2023
Thallium		0.0020		**0.253**	0.2500	0	101.3	75	125	10/28/2023

Batch 213827 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23100903-042BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		**0.505**	0.5000	0	101.1	0.5133	1.58	10/28/2023
Arsenic		0.0010		**0.512**	0.5000	0.001421	102.1	0.5324	3.95	10/28/2023
Barium		0.0010		**2.25**	2.000	0.2822	98.3	2.274	1.15	10/28/2023
Beryllium		0.0010		**0.0460**	0.0500	0	92.0	0.04535	1.45	10/28/2023
Boron		0.0250		**0.586**	0.5000	0.02899	111.5	0.5973	1.83	11/01/2023
Cadmium		0.0010		**0.0476**	0.0500	0	95.3	0.04872	2.26	10/28/2023
Chromium		0.0015		**0.193**	0.2000	0	96.4	0.1932	0.20	10/30/2023
Cobalt		0.0010		**0.497**	0.5000	0.004186	98.6	0.4979	0.17	10/28/2023
Lead		0.0010		**0.487**	0.5000	0	97.3	0.4898	0.66	10/28/2023
Lithium	*	0.0030		**0.460**	0.5000	0.002859	91.3	0.4505	2.01	10/28/2023
Molybdenum	*	0.0015		**0.477**	0.5000	0.0009315	95.2	0.4749	0.43	10/28/2023
Selenium		0.0010		**0.467**	0.5000	0	93.4	0.4802	2.82	10/28/2023
Thallium		0.0020		**0.243**	0.2500	0	97.3	0.2531	3.95	10/28/2023

Batch 214004 **SampType:** MBLK Units **mg/L**

SampID: MBLK-214004

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	11/02/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	11/01/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 214004 **SampType:** LCS Units **mg/L**
SampID: LCS-214004

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		**0.419**	0.5000	0	83.8	80	120	11/02/2023
Molybdenum	*	0.0015		**0.488**	0.5000	0	97.6	80	120	11/01/2023

Batch 214004 **SampType:** MS Units **mg/L**
SampID: 23100902-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		**1.85**	0.5000	1.424	84.3	75	125	11/02/2023

Batch 214004 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23100902-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.0250		**1.81**	0.5000	1.424	77.3	1.845	1.93	11/02/2023

Batch 214004 **SampType:** MS Units **mg/L**
SampID: 23100903-021BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250	S	**2.78**	1.000	2.158	62.2	75	125	11/02/2023
Molybdenum	*	0.0015		**1.04**	1.000	0	103.5	75	125	11/01/2023

Batch 214004 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23100903-021BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.0250	S	**2.68**	1.000	2.158	52.3	2.780	3.62	11/02/2023
Molybdenum	*	0.0015		**1.01**	1.000	0	100.9	1.035	2.57	11/01/2023

SW-846 7470A (TOTAL)

Batch 213831 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213831

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**< 0.00020**	0.0001	0	0	-100	100	10/27/2023

Batch 213831 **SampType:** LCS Units **mg/L**
SampID: LCS-213831

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00491**	0.0050	0	98.2	85	115	10/27/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 7470A (TOTAL)

Batch 213831 **SampType:** MS Units **mg/L**
SampID: 23100903-008BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00473**	0.0050	0	94.6	75	125	10/27/2023

Batch 213831 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-008BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00477**	0.0050	0	95.4	0.004730	0.86	10/27/2023

Batch 213831 **SampType:** MS Units **mg/L**
SampID: 23101922-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00503**	0.0050	0	100.7	75	125	10/27/2023

Batch 213831 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23101922-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00527**	0.0050	0	105.5	0.005033	4.68	10/27/2023

Batch 213832 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213832

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**< 0.00020**	0.0001	0	0	-100	100	10/27/2023

Batch 213832 **SampType:** LCS Units **mg/L**
SampID: LCS-213832

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00480**	0.0050	0	96.1	85	115	10/27/2023

Batch 213832 **SampType:** MS Units **mg/L**
SampID: 23100903-025BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00503**	0.0050	0	100.5	75	125	10/27/2023

Batch 213832 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-025BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00483**	0.0050	0	96.6	0.005026	4.02	10/27/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23100903

Client Project: JOP-23Q4 **Report Date:** 20-Nov-23

SW-846 7470A (TOTAL)

Batch 213832 **SampType:** MS Units **mg/L**
SampID: 23100903-035BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00499**	0.0050	0	99.8	75	125	10/27/2023

Batch 213832 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23100903-035BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00515**	0.0050	0	103.0	0.004989	3.17	10/27/2023

Batch 213967 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213967

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**< 0.00020**	0.0001	0	0	-100	100	10/31/2023

Batch 213967 **SampType:** LCS Units **mg/L**
SampID: LCS-213967

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00518**	0.0050	0	103.6	85	115	10/31/2023

Batch 213967 **SampType:** MS Units **mg/L**
SampID: 23101966-006CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00676**	0.0050	0.001414	106.9	75	125	10/31/2023

Batch 213967 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23101966-006CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00663**	0.0050	0.001414	104.2	0.006760	2.00	10/31/2023

Batch 213967 **SampType:** MS Units **mg/L**
SampID: 23101972-004BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00532**	0.0050	0	106.3	75	125	10/31/2023

Batch 213967 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23101972-004BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00521**	0.0050	0	104.3	0.005317	1.98	10/31/2023

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Ramboll
Client Project: JOP-23Q4

Work Order: 23100903
Report Date: 20-Nov-23

Carrier: Justin Colp

Received By: AMD

Completed by: Amber Dilallo
On: 25-Oct-23

Reviewed by: Ellie Hopkins
On: 26-Oct-23

Pages to follow: Chain of custody 6 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 2.2
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #90719. - amberdilallo - 10/25/2023 10:05:47 AM

G16S collection date and time per G16S on WO# 23100903. - AMD/ERH 10/25/23

Additional Nitric Acid (93773) was needed in G54D upon arrival at the laboratory. - amberdilallo - 10/26/2023 10:23:11 AM

pH strip #90719. - amberdilallo - 10/26/2023 10:24:11 AM

Samples collected on 10/24/23 and 10/25/23 were delivered to the laboratory on 10/25/23 at 1745 (on ice 2.0C - LTG1). AMD/ERH 10/26/23

23100903

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Joppa	Report To:	Brian Voelker	Attention:	Brian Voelker
Address:	2100 Portland Road	Copy To:	Sam Davies: samantha.davies@vistracorp.com	Company Name:	Vistra Corp
	Joppa, IL 62953		Roger Faughn - roger.faughn@vistracorp.com	Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES **GROUND WATER** DRINKING WATER

UST RCRA OTHER

Site Location **STATE:** IL

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	JOP_257_401	JOP_845_401	JOP_SUP_000	JOP_PGMP_401	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G01D			10/23/23	1244		2	1		1							✓	✓	✓			23100903 - 001
2	G02D			10/23/23	1335		2	1		1							✓	✓	✓			002
3	G03			10/23/23	1424		2	1		1							✓	✓	✓			003
4	G05						2	1		1							✓	✓	✓			004
5	G06						2	1		1							✓	✓	✓			005
6	G07			10/24/23	1240		2	1		1							✓	✓	✓			006
7	G08			10-24-23	1253		2	1		1							✓	✓	✓			007
8	G09						2	1		1							✓	✓	✓			008
9	G10			10-24-23	1224		2	1		1							✓	✓	✓			009
10	G11			10-24-23	1121		2	1		1							✓	✓	✓			010
11	G12D			10/24/23	1205		2	1		1									✓	✓		011
12	G12S			10/24/23	1125		2	1		1									✓	✓		012
13	G13D			10/24/23	1052		2	1		1									✓	✓		013
14	G13S			10/24/23	1027		2	1		1									✓	✓		014
15	G151						2	1		1										✓		015
16	G153						2	1		1										✓		016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
JOP-23Q4 Rev 1	J. Colp	10-24	1700	Amber Gillespie	10/24/23	1700	1.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp DATE Signed (MM/DD/YY): 10-24-23

Giles date/time per 23100904 COC. GM 10/25/23

DH V 90719 GM 10/25/23

LTGS

23100903

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Joppa	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	2100 Portland Road	Copy To:	Sam Davies: samantha.davies@vistracorp.com	Company Name:	Vistra Corp
	Joppa, IL 62953		Roger Faughn - roger.faughn@vistracorp.com	Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

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

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

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: JOP_257_401	JOP_845_401	JOP_SUP_000	JOP_PGMP_401	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G16S			10-24-23	955		2	1		1									✓	✓		23100903-017
2	G18S			10-23-23	1205		2	1		1									✓	✓		018
3	G19D			10-23-23	1319		2	1		1									✓	✓		019
4	G19S			10-23-23	1303		2	1		1									✓	✓		020
5	G20D			10/24/23	927		2	1		1									✓	✓		021
6	G20S			10/24/23	902		2	1		1									✓	✓		022
7	G21D			10-23-23	1530		2	1		1									✓	✓		023
8	G21S				~~1458~~ 1508		2	1		1									✓	✓		024
9	G22D				~~1499~~ 1440		2	1		1									✓	✓		025
10	G22S				1419		2	1		1									✓	✓		026
11	G23S				1234		2	1		1									✓	✓		027
12	G24S				1354		2	1		1									✓	✓		028
13	G51D						2	1		1							✓	✓	✓			029
14	G52D			10-24-23	1022		2	1		1							✓	✓	✓			030
15	G53D						2	1		1							✓	✓	✓			031
16	G54D						2	1		1							✓	✓	✓			032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
JOP-23Q4 Rev 1	J. Colp	10-24	1700	[signature]	10/24/23	1700		Y	N	
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	Justin Colp	
SIGNATURE of SAMPLER:	[signature]	DATE Signed (MM/DD/YY): 10-24-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

23100903

Page: 3 of 3

Section A Required Client Information:

Company:	Vistra Corp-Joppa
Address:	2100 Portland Road
	Joppa, IL 62953
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
	Roger Faughn - roger.faughn@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Jason Stuckey
Company Name:	Vistra Corp
Address:	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: JOP_257_401	JOP_845_401	JOP_SUP_000	JOP_PGMP_401	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G54S						0												✓			23100903-033
2	SG02						0										✓	✓				034
3	Well 2			10-24-23	0906		2	1		1									✓	✓		035
4	Well 3			10-24-23	0944		2	1		1									✓	✓		036
5	XPW01						2	1		1								✓	✓			037
6	XPW02						2	1		1								✓	✓			038
7	XPW03						2	1		1								✓	✓			039
8	XSG01						0										✓	✓				040
9	Field Blank						2	1		1							✓	✓	✓	✓		041
10	G52D Duplicate			10-24-23	1022		2	1		1							✓	✓	✓			042
11	G12S Duplicate			10/24/23	1125		2	1		1									✓	✓		043
12	~~WCH 1~~			~~10-24-23~~	~~0843~~																	
13	FRH 10/25/23																					
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
JOP-23Q4 Rev 1	J. Colp	10-4	1700	[signature]	10/4/23	1700		Y	N	
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10-24-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

23100903

Page: 1 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Joppa	Report To:	Brian Voelker	Attention:	Brian Voelker
Address:	2100 Portland Road	Copy To:	Sam Davies: samantha.davies@vistracorp.com	Company Name:	Vistra Corp
	Joppa, IL 62953		Roger Faughn - roger.faughn@vistracorp.com	Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

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

Site Location STATE: IL

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	JOP_257_401	JOP_845_401	JOP_SUP_000	JOP_PGMP_401	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G01D						2	1		1							✓	✓	✓			23100903 - 001
2	G02D						2	1		1							✓	✓	✓			002
3	G03						2	1		1							✓	✓	✓			003
4	G05			10/24/23	1403		2	1		1							✓	✓	✓			004
5	G06			10/24/23	1322		2	1		1							✓	✓	✓			005
6	G07						2	1		1							✓	✓	✓			006
7	G08						2	1		1							✓	✓	✓			007
8	G09			10/25/23	1434		2	1		1							✓	✓	✓			008
9	G10						2	1		1							✓	✓	✓			009
10	G11						2	1		1							✓	✓	✓			010
11	G12D						2	1		1									✓	✓		011
12	G12S						2	1		1									✓	✓		012
13	G13D						2	1		1									✓	✓		013
14	G13S						2	1		1									✓	✓		014
15	G151			10/25/23	941		2	1		1										✓		015
16	G153			10/25/23	1325		2	1		1										✓		016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
JOP-23Q4 Rev 1	[signature]	10/25/23	1745	[signature]	10/25/23	1745	2.0	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/25/23

Added HNO3 (98773) to G04D. pH ✓ 90719 Dm 10/26/23

LTCL

23100903

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp-Joppa	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 2100 Portland Road	Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp
Joppa, IL 62953	Roger Faughn - roger.faughn@vistracorp.com	Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES **GROUND WATER** DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: JOP_257_401	JOP_845_401	JOP_SUP_000	JOP_PGMP_401	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G16S						2	1		1								✓	✓		23100903-017
2	G18S						2	1		1								✓	✓		018
3	G19D						2	1		1								✓	✓		019
4	G19S						2	1		1								✓	✓		020
5	G20D						2	1		1								✓	✓		021
6	G20S						2	1		1								✓	✓		022
7	G21D						2	1		1								✓	✓		023
8	G21S						2	1		1								✓	✓		024
9	G22D						2	1		1								✓	✓		025
10	G22S						2	1		1								✓	✓		026
11	G23S						2	1		1								✓	✓		027
12	G24S						2	1		1								✓	✓		028
13	G51D			10/25/23	842		2	1		1						✓	✓	✓			029
14	G52D						2	1		1						✓	✓	✓			030
15	G53D			10/25/23	1359		2	1		1						✓	✓	✓			031
16	G54D			10/25/23	1246		2	1		1						✓	✓	✓			032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
JOP-23Q4 Rev 1	Troy Carroll	10/25/23	1745		10/25/23	1745		4	N	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Troy Carroll

SIGNATURE of SAMPLER: Troy Carroll

DATE Signed (MM/DD/YY): 10/25/23

23100903

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 of 3

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp-Joppa	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 2100 Portland Road	Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp
Joppa, IL 62953	Roger Faughn - roger.faughn@vistracorp.com	Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

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

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	JOP_257_401	JOP_845_401	JOP_SUP_000	JOP_PGMP_401	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G54S						0												✓			23100903-033
2	SG02						0										✓	✓				034
3	Well 2						2	1		1									✓	✓		035
4	Well 3						2	1		1									✓	✓		036
5	XPW01			10/25/23	1116		2	1		1								✓	✓			037
6	XPW02			10/25/23	1203		2	1		1								✓	✓			038
7	XPW03			10/25/23	1025		2	1		1								✓	✓			039
8	XSG01						0										✓	✓				040
9	Field Blank			10/25/23	1431		2	1		1							✓	✓	✓	✓		041
10	G52D Duplicate						2	1		1							✓	✓	✓			042
11	G12S Duplicate						2	1		1									✓	✓		043
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
JOP-23Q4 Rev 1	Tracy Carroll	10/25/23	1745		10/25/23	1745		Y	N	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll

DATE Signed (MM/DD/YY): 10/25/23

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-001A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G01D	10/23/2023	12:35	1235	44.88		17	62.6	6.42	450.3	450.3	1.13	83.56	102.4	
G01D	10/23/2023	12:38	1238	44.88		16.9	62.42	6.42	454.6	454.6	1.25	41.37	101.6	
G01D	10/23/2023	12:41	1241	44.88		16.9	62.42	6.39	480	480	1.57	89.77	102.6	
G01D	10/23/2023	12:44	1244	44.88		16.9	62.42	6.4	484.1	484.1	1.83	175.01	102.6	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-002A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G02D	10/23/2023	13:26	1326	45.1		15.3	59.54	6.44	340.4	340.4	1.83	91.79	104.2	
G02D	10/23/2023	13:29	1329	45.1		15.3	59.54	6.43	340.8	340.8	2.19	94.41	105.4	
G02D	10/23/2023	13:32	1332	45.1		15.4	59.72	6.41	340.7	340.7	2.6	78.59	107	
G02D	10/23/2023	13:35	1335	45.1		15.4	59.72	6.4	340.9	340.9	2.9	90.89	108.5	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-003A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G03	10/23/2023	14:15	1415	39.89		16.2	61.16	6.41	446.2	446.2	3.41	59.39	132.3	
G03	10/23/2023	14:18	1418	39.89		16.4	61.52	6.4	430.8	430.8	3.49	73.33	131.8	
G03	10/23/2023	14:21	1421	39.89		16.4	61.52	6.4	417.7	417.7	3.59	80.07	130.7	
G03	10/23/2023	14:24	1424	39.89		16.4	61.52	6.4	411.1	411.1	3.66	108.22	129.8	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-004A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G05	10/24/2023	13:54	1354	44.93		18.1	64.58	6.45	466	466	1.65	8.57	57.3	
G05	10/24/2023	13:57	1357	44.93		17.9	64.22	6.45	465.4	465.4	1.39	7.91	50.8	
G05	10/24/2023	14:00	1400	44.93		17.8	64.04	6.44	463.2	463.2	1.27	7.36	46.8	
G05	10/24/2023	14:03	1403	44.93		17.7	63.86	6.44	459.9	459.9	1.21	7.34	44.9	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-005A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G06	10/24/2023	13:13	1313	41.92		15.7	60.26	6.59	596.5	596.5	0.98	22.99	117.7	
G06	10/24/2023	13:16	1316	41.92		15.7	60.26	6.58	594.3	594.3	0.87	20.37	117.4	
G06	10/24/2023	13:19	1319	41.92		15.7	60.26	6.57	594.1	594.1	0.8	18.72	116.7	
G06	10/24/2023	13:22	1322	41.92		15.7	60.26	6.57	593.4	593.4	0.76	18.17	116	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-006A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G07	10/24/2023	12:34	1234	42		15.9	60.62	6.44	713.6	713.6	1.31	5.95	132.7	
G07	10/24/2023	12:37	1237	42		15.8	60.44	6.42	709.5	709.5	1	7.71	131.9	
G07	10/24/2023	12:40	1240	42		15.8	60.44	6.41	708.7	708.7	0.88	10.38	130.9	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-007A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G08	10/24/2023	12:47	1247	33.13		18.2	64.76	6.99	877.5	877.5	4.41	18.08	40.2	
G08	10/24/2023	12:50	1250	33.13		18.2	64.76	6.9	881.2	881.2	3.08	20.88	42.5	
G08	10/24/2023	12:53	1253	33.13		18.2	64.76	6.95	910	910	3.34	23.52	29.4	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-008A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G09	10/25/2023	14:28	1428	41.91		18.1	64.58	6.32	595	595	1.5	9.35	-8.8	
G09	10/25/2023	14:31	1431	41.91		18.1	64.58	6.26	599.8	599.8	1.07	7.33	-6.1	
G09	10/25/2023	14:34	1434	41.91		18.1	64.58	6.23	601.3	601.3	0.9	8.07	-2.7	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-009A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G10	10/24/2023	12:18	1218	42.3		17.4	63.32	6.6	1107.9	1107.9	2.01	35.3	26.7	
G10	10/24/2023	12:21	1221	42.3		17.4	63.32	6.6	1102.7	1102.7	1.63	41.1	24.7	
G10	10/24/2023	12:24	1224	42.3		17.4	63.32	6.6	1097.9	1097.9	1.49	46.25	23.1	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-010A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G11	10/24/2023	11:09	1109	49.32		18.1	64.58	6.01	628.1	628.1	5.63	10.24	98.7	
G11	10/24/2023	11:12	1112	49.32		17.9	64.22	5.91	639.9	639.9	4	11	109.4	
G11	10/24/2023	11:15	1115	49.32		17.9	64.22	5.89	626.7	626.7	2.95	34.21	115.5	
G11	10/24/2023	11:18	1118	49.32		18	64.4	5.88	611.3	611.3	2.43	48.33	119.9	
G11	10/24/2023	11:21	1121	49.32		18	64.4	5.88	600.1	600.1	2.23	8.95	123.8	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-011A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G12D	10/24/2023	11:56	1156	48.55		15.7	60.26	6.66	542	542	2.07	5.22	116.3	
G12D	10/24/2023	11:59	1159	48.55		15.6	60.08	6.63	541.3	541.3	1.3	5.38	116.5	
G12D	10/24/2023	12:02	1202	48.55		15.6	60.08	6.62	540.9	540.9	1.03	4.37	116.3	
G12D	10/24/2023	12:05	1205	48.55		15.6	60.08	6.61	540.3	540.3	0.91	3.37	115.8	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-012A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G12S	10/24/2023	11:19	1119	48.71		15.4	59.72	6.53	539.4	539.4	1.22	2.52	118	
G12S	10/24/2023	11:22	1122	48.71		15.4	59.72	6.52	539	539	0.98	2.83	117.3	
G12S	10/24/2023	11:25	1125	48.71		15.4	59.72	6.51	538.6	538.6	0.88	2.57	115.9	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-013A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G13D	10/24/2023	10:46	1046	43.39		15.3	59.54	6.61	521.6	521.6	1.97	1.4	110.9	
G13D	10/24/2023	10:49	1049	43.39		15.2	59.36	6.59	521.1	521.1	1.17	1.06	111.2	
G13D	10/24/2023	10:52	1052	43.39		15.2	59.36	6.58	520.4	520.4	0.9	0.61	111.3	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-014A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G13S	10/24/2023	10:21	1021	43.44		15.2	59.36	6.53	523.6	523.6	1.44	1.41	106.1	
G13S	10/24/2023	10:24	1024	43.44		15.2	59.36	6.52	523.1	523.1	1.09	1.17	106.9	
G13S	10/24/2023	10:27	1027	43.44		15.2	59.36	6.51	522.4	522.4	0.96	0.63	107.2	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-015A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G151	10/25/2023	9:26	0926	40.37		18.3	64.94	5.53	316	316	7.66	10.05	177.2	
G151	10/25/2023	9:29	0929	40.37		18.6	65.48	5.53	316.8	316.8	7.65	9.63	178.4	
G151	10/25/2023	9:32	0932	40.37		19.1	66.38	5.53	317.1	317.1	7.64	8.91	178.9	
G151	10/25/2023	9:35	0935	40.37		19.1	66.38	5.57	317	317	7.95	48.84	175.9	
G151	10/25/2023	9:38	0938	40.37		18.8	65.84	5.57	319.2	319.2	7.52	62.08	175.4	
G151	10/25/2023	9:41	0941	40.37		18.8	65.84	5.57	318.9	318.9	7.38	81.08	175.3	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-016A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G153	10/25/2023	13:19	1319	38.42		17.9	64.22	6.94	417.6	417.6	8.92	17.9	58.3	
G153	10/25/2023	13:22	1322	38.42		18	64.4	6.89	417.1	417.1	8.95	11.91	63.4	
G153	10/25/2023	13:25	1325	38.42		18.1	64.58	6.86	418.9	418.9	8.91	9.88	67.6	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-017A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G16S	10/24/2023	9:49	0949	45.98		14.6	58.28	6.57	771.5	771.5	1.35	9.32	128.4	
G16S	10/24/2023	9:52	0952	45.98		14.6	58.28	6.54	770.8	770.8	1.09	4.7	126	
G16S	10/24/2023	9:55	0955	45.98		14.6	58.28	6.54	769.4	769.4	0.91	4.17	124	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-018A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G18S	10/23/2023	11:59	1159	39.5		17.1	62.78	6.37	472.8	472.8	3.94	13.62	155.6	
G18S	10/23/2023	12:02	1202	39.5		17.5	63.5	6.41	461.9	461.9	3.32	11.33	151.7	
G18S	10/23/2023	12:05	1205	39.5		17.7	63.86	6.44	457	457	3.03	9.56	148.9	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-019A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G19D	10/23/2023	13:13	1313	47.18		19.7	67.46	7.15	470.8	470.8	8.57	4.36	139.9	
G19D	10/23/2023	13:16	1316	47.18		18.2	64.76	6.71	466.8	466.8	5.05	3.87	145.3	
G19D	10/23/2023	13:19	1319	47.18		17.6	63.68	6.64	467	467	4.42	3.77	146.5	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-020A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G19S	10/23/2023	12:57	1257	47.29		16.6	61.88	6.54	583.5	583.5	5.13	2.8	151.1	
G19S	10/23/2023	13:00	1300	47.29		16.3	61.34	6.47	585.5	585.5	4.1	2.59	151.1	
G19S	10/23/2023	13:03	1303	47.29		16.3	61.34	6.45	586.3	586.3	3.72	1.56	150.7	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-021A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G20D	10/24/2023	9:18	0918	45.48		15.3	59.54	6.69	487.3	487.3	3.61	2.76	110.6	
G20D	10/24/2023	9:21	0921	45.48		15.3	59.54	6.67	485.9	485.9	2.43	11.41	110.9	
G20D	10/24/2023	9:24	0924	45.48		15.2	59.36	6.66	485.4	485.4	1.64	10.79	110.1	
G20D	10/24/2023	9:27	0927	45.48		15.2	59.36	6.66	484.8	484.8	1.26	7.13	109.3	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-022A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G20S	10/24/2023	8:53	0853	44.91		15.1	59.18	6.33	488	488	4.31	2.39	107.3	
G20S	10/24/2023	8:56	0856	44.91		15.1	59.18	6.33	486.9	486.9	4.16	1.46	109.7	
G20S	10/24/2023	8:59	0859	44.91		15.1	59.18	6.34	486.1	486.1	4.06	1.29	111.5	
G20S	10/24/2023	9:02	0902	44.91		15.1	59.18	6.35	485.3	485.3	3.95	0.92	112.8	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-023A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G21D	10/23/2023	15:24	1524	46.59		16.1	60.98	7.12	717.4	717.4	5.29	9.06	150.8	
G21D	10/23/2023	15:27	1527	46.59		16.1	60.98	7.01	717.7	717.7	4.7	9.27	133.2	
G21D	10/23/2023	15:30	1530	46.59		15.9	60.62	6.96	717.5	717.5	4.27	7.7	85.9	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-024A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G21S	10/23/2023	15:02	1502	47.09		15.6	60.08	6.71	834.7	834.7	5.43	2.73	151.4	
G21S	10/23/2023	15:05	1505	47.09		15.9	60.62	6.66	831.8	831.8	4.81	3.08	154.3	
G21S	10/23/2023	15:08	1508	47.09		15.8	60.44	6.63	831.1	831.1	4.27	3.31	155.9	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-025A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G22D	10/23/2023	14:34	1434	47.2		17.2	62.96	7.18	435.3	435.3	4.29	3.01	148.8	
G22D	10/23/2023	14:37	1437	47.2		16.8	62.24	6.88	434.7	434.7	2.41	1.77	150.4	
G22D	10/23/2023	14:40	1440	47.2		16.7	62.06	6.72	435	435	1.84	1.86	151	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-026A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G22S	10/23/2023	14:13	1413	47.12		17.1	62.78	6.65	473.5	473.5	6.19	1.98	152.9	
G22S	10/23/2023	14:16	1416	47.12		17.1	62.78	6.6	473.1	473.1	5.1	7.83	153.4	
G22S	10/23/2023	14:19	1419	47.12		17.1	62.78	6.58	472.6	472.6	4.26	5.67	153.1	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-027A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G23S	10/23/2023	12:28	1228	46.6		16.8	62.24	6.66	392.2	392.2	5.52	8.07	114.6	
G23S	10/23/2023	12:31	1231	46.6		17.1	62.78	6.58	391.9	391.9	4.92	8.06	121.6	
G23S	10/23/2023	12:34	1234	46.6		16.9	62.42	6.56	392.1	392.1	4.58	9.09	126	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-028A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G24S	10/23/2023	13:48	1348	48.97		17.6	63.68	6.56	426.4	426.4	4.05	12.38	145.7	
G24S	10/23/2023	13:51	1351	48.97		17.4	63.32	6.55	426.4	426.4	4	9.04	145.1	
G24S	10/23/2023	13:54	1354	48.97		17.4	63.32	6.55	426	426	3.96	7.56	144.9	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-029A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G51D	10/25/2023	8:36	0836	46.09		17.2	62.96	5.27	332.6	332.6	2.08	3.88	165.1	
G51D	10/25/2023	8:39	0839	46.09		17.1	62.78	5.27	332.2	332.2	1.96	4.11	168.1	
G51D	10/25/2023	8:42	0842	46.09		17.1	62.78	5.28	331.8	331.8	1.89	3.98	170.5	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-030A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G52D	10/24/2023	10:13	1013	31.05		16.6	61.88	6.57	411.5	411.5	4.61	1.77	46.5	
G52D	10/24/2023	10:16	1016	31.05		16.6	61.88	6.43	402.1	402.1	2.95	1.66	27.6	
G52D	10/24/2023	10:19	1019	31.05		16.6	61.88	6.33	393.6	393.6	2	1.57	9.4	
G52D	10/24/2023	10:22	1022	31.05		16.6	61.88	6.33	392.7	392.7	1.51	1.59	-0.7	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-031A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G53D	10/25/2023	13:53	1353	39.82		17.8	64.04	6.56	413.3	413.3	1.09	6.74	49	
G53D	10/25/2023	13:56	1356	39.82		17.7	63.86	6.51	412.9	412.9	0.77	5.27	49.2	
G53D	10/25/2023	13:59	1359	39.82		17.7	63.86	6.49	411.5	411.5	0.68	4.65	48.9	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-032A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G54D	10/25/2023	12:37	1237	44.45		17.4	63.32	6.63	639.7	639.7	0.74	516.45	-49.1	
G54D	10/25/2023	12:40	1240	44.45		17.1	62.78	6.59	640.1	640.1	0.64	223.12	-41.3	
G54D	10/25/2023	12:43	1243	44.45		17.2	62.96	6.57	640.5	640.5	0.57	165.89	-35.9	
G54D	10/25/2023	12:46	1246	44.45		17.2	62.96	6.56	642.7	642.7	0.53	190.74	-31.9	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-033A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G54S														

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-034A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
SG02														

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-035A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
Well 2	10/24/2023	9:00	0900	47.45		19.7	67.46	6.25	750.7	750.7	5.45	7.25	161.5	
Well 2	10/24/2023	9:03	0903	47.45		19.6	67.28	6.21	760.2	760.2	4.68	11.67	164	
Well 2	10/24/2023	9:06	0906	47.45		19.6	67.28	6.19	763.6	763.6	4.17	11.6	165.3	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-036A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
Well 3	10/24/2023	9:38	0938	34.17		16.1	60.98	6.54	933.4	933.4	6.91	22.3	170.3	
Well 3	10/24/2023	9:41	0941	34.17		16.2	61.16	6.54	934.8	934.8	6.87	19.77	170.5	
Well 3	10/24/2023	9:44	0944	34.17		16.2	61.16	6.54	934.7	934.7	6.85	19.22	170.8	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-037A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
XPW01	10/25/2023	11:07	1107	17.94		18.9	66.02	7.64	806.1	806.1	2.59	3.65	-121.7	
XPW01	10/25/2023	11:10	1110	17.94		19.1	66.38	8.05	803.3	803.3	2.13	3.31	-151.4	
XPW01	10/25/2023	11:13	1113	17.94		19.2	66.56	8.25	800.1	800.1	1.61	3.68	-164.1	
XPW01	10/25/2023	11:16	1116	17.94		19.3	66.74	8.41	802.8	802.8	1.23	3.11	-177.1	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-038A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
XPW02	10/25/2023	11:57	1157	8.25		18.7	65.66	7.74	4091.2	4091.2	0.96	4.59	-154.3	
XPW02	10/25/2023	12:00	1200	8.25		18.7	65.66	7.8	4128.1	4128.1	0.75	4.66	-171.3	
XPW02	10/25/2023	12:03	1203	8.25		18.7	65.66	7.83	4142.3	4142.3	0.66	7.37	-180.2	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-039A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
XPW03	10/25/2023	10:16	1016	15.24		19.3	66.74	10.84	551	551	2.75	1.69	-79.8	
XPW03	10/25/2023	10:19	1019	15.24		19.4	66.92	10.85	555.1	555.1	2.4	1.64	-82.2	
XPW03	10/25/2023	10:22	1022	15.24		19.3	66.74	10.85	559.7	559.7	2.27	1.72	-82.8	
XPW03	10/25/2023	10:25	1025	15.24		19.3	66.74	10.85	562.9	562.9	2.12	1.71	-88.5	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-040A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
XSG01														

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-041A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
Field Blank														

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-042A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G52D Duplicate	10/24/2023	10:13	1013	31.1		16.6	61.88	6.57	411.5	411.5	4.61	1.77	46.5	
G52D Duplicate	10/24/2023	10:16	1016	31.1		16.6	61.88	6.43	402.1	402.1	2.95	1.66	27.6	
G52D Duplicate	10/24/2023	10:19	1019	31.1		16.6	61.88	6.33	393.6	393.6	2	1.57	9.4	
G52D Duplicate	10/24/2023	10:22	1022	31.1		16.6	61.88	6.33	392.7	392.7	1.51	1.59	-0.7	

Site Sampling Event	Joppa 4Q
LIMS Workorder	23100903-043A
Technician	JC, TC, BG, JR

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G12S Duplicate	10/24/2023	11:19	1119	48.7		15.4	59.72	6.53	539.4	539.4	1.22	2.52	118	
G12S Duplicate	10/24/2023	11:22	1122	48.7		15.4	59.72	6.52	539	539	0.98	2.83	117.3	
G12S Duplicate	10/24/2023	11:25	1125	48.7		15.4	59.72	6.51	538.6	538.6	0.88	2.57	115.9	

Field Calibration Log

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 029218
Technician: Tracy Carroll

Tracy

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.03	10/23/23 11:59
7.0 Buffer	WC230616F	7.08	10/23/23 12:02
10.0 Buffer	WC230504C	10.10	10/23/23 12:07
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1412	10/23/23 12:11

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/23/23 12:20	18.8	7.05	1410	
CCV	10/23/23 15:23	22.3	7.04	1453	

Field Meter ID: Pine 029218
Technician: Tracy Carroll

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.00	10/24/23 8:23
7.0 Buffer	WC230616F	7.03	10/24/23 8:24
10.0 Buffer	WC230504C	10.08	10/24/23 8:26
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1412	10/24/23 8:20

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/24/23 8:41	18.2	7.08	1412	
CCV	10/24/23 14:55	22.8	7.09	1471	

Field Meter ID: Pine 029218
Technician: Tracy Carroll

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.03	10/25/23 8:03
7.0 Buffer	WC230616F	7.10	10/25/23 8:15
10.0 Buffer	WC230504C	10.00	10/25/23 8:17
LCS (7.0 Buffer)	WC230504B		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1412	10/25/23 8:00

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/25/23 8:24	19.6	7.10	1412	
CCV	10/25/23 14:40	24.5	7.10	1496	

Field Calibration Log

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: 51290
Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.01	10/23/23 11:33
7.0 Buffer	wc230616f	7.02	10/23/23 11:37
10.0 Buffer	wc230504c	9.99	10/23/23 11:42
LCS (7.0 Buffer)	wc230504b		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1413	10/23/23 11:46

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/23/23 11:51	20.1	7.01	1415	
CCV	10/23/23 15:34	20.9	7.03	1423	

Field Meter ID: 51290
Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.00	10/24/23 8:03
7.0 Buffer	wc230616f	7.01	10/24/23 8:09
10.0 Buffer	wc230504c	10.00	10/24/23 8:17
LCS (7.0 Buffer)	wc230504b		

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1416	10/24/23 8:24

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/24/23 8:31	19.2	7.01	1419	
CCV	10/24/23 13:10	21.4	7.03	1435	

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

December 01, 2023

Eric Bauer
Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
TEL: (414) 837-3607
FAX: (414) 837-3608

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: JOP-23Q4 **WorkOrder:** 23100904

Dear Eric Bauer:

TEKLAB, INC received 40 samples on 10/25/2023 5:45:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23

This reporting package includes the following:

Definitions

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23

Cooler Receipt Temp: 2.0 °C

An employee of Teklab, Inc. collected the sample(s).

Ra226/228 analyses were performed by Eurofins St. Louis. See attached report 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

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Accreditations

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23
Lab ID: 23100904-001
Client Sample ID: G01D
Matrix: GROUNDWATER
Collection Date: 10/23/2023 12:44

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:11	R339926

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-002 **Client Sample ID:** G02D

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 13:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:11	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-003 **Client Sample ID:** G03

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 14:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:12	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-004 **Client Sample ID:** G05

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 14:03

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:12	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23
Lab ID: 23100904-005
Client Sample ID: G06
Matrix: GROUNDWATER
Collection Date: 10/24/2023 13:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:12	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-006 **Client Sample ID:** G07

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 12:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:12	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-007 **Client Sample ID:** G08

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 12:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:12	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-008 **Client Sample ID:** G09

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 14:34

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:12	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-009 **Client Sample ID:** G10

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 12:24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:12	R339926

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-010 **Client Sample ID:** G11

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 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	11/20/2023 17:12	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-011 **Client Sample ID:** G12D

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 12:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:13	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-012 **Client Sample ID:** G12S

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 11:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:13	R339926

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-013 **Client Sample ID:** G13D

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 10:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:13	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23
Lab ID: 23100904-014
Client Sample ID: G13S
Matrix: GROUNDWATER
Collection Date: 10/24/2023 10:27

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:13	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-015 **Client Sample ID:** G151

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 9:41

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:13	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23
Lab ID: 23100904-016
Client Sample ID: G153
Matrix: GROUNDWATER
Collection Date: 10/25/2023 13:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:13	R339926

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-017 **Client Sample ID:** G16S

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 9:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:13	R339926

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-018 **Client Sample ID:** G18S

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 12:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:13	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-019 **Client Sample ID:** G19D

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 13:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:13	R339926

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-020 **Client Sample ID:** G19S

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 13:03

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:13	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23
Lab ID: 23100904-021
Client Sample ID: G20D
Matrix: GROUNDWATER
Collection Date: 10/24/2023 9:27

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:53	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23
Lab ID: 23100904-022
Client Sample ID: G20S
Matrix: GROUNDWATER
Collection Date: 10/24/2023 9:02

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:55	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-023 **Client Sample ID:** G21D

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 15:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:55	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-024 **Client Sample ID:** G21S

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 15:08

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:55	R339926

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-025 **Client Sample ID:** G22D

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 14:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:55	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-026 **Client Sample ID:** G22S

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 14:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:55	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-027 **Client Sample ID:** G23S

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 12:34

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:56	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-028 **Client Sample ID:** G24S

Matrix: GROUNDWATER **Collection Date:** 10/23/2023 13:54

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:58	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-029 **Client Sample ID:** G51D

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 8:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:58	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23
Lab ID: 23100904-030
Client Sample ID: G52D
Matrix: GROUNDWATER
Collection Date: 10/24/2023 10:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:58	R339926

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-031 **Client Sample ID:** G53D

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 13:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:58	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-032 **Client Sample ID:** G54D

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 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	11/20/2023 16:58	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-033 **Client Sample ID:** Well 2

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 9:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:59	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-034 **Client Sample ID:** Well 3

Matrix: GROUNDWATER **Collection Date:** 10/24/2023 9:44

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:59	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23
Lab ID: 23100904-035
Client Sample ID: XPW01
Matrix: GROUNDWATER
Collection Date: 10/25/2023 11:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 16:59	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23
Lab ID: 23100904-036
Client Sample ID: XPW02
Matrix: GROUNDWATER
Collection Date: 10/25/2023 12:03

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:05	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23100904

Client Project: JOP-23Q4 **Report Date:** 01-Dec-23

Lab ID: 23100904-037 **Client Sample ID:** XPW03

Matrix: GROUNDWATER **Collection Date:** 10/25/2023 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	11/20/2023 17:06	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23
Lab ID: 23100904-038
Client Sample ID: Field Blank
Matrix: AQUEOUS
Collection Date: 10/25/2023 14:31

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:06	R339926

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23
Lab ID: 23100904-039
Client Sample ID: G52D Duplicate
Matrix: GROUNDWATER
Collection Date: 10/24/2023 10:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:06	R339926

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23100904
Client Project: JOP-23Q4
Report Date: 01-Dec-23
Lab ID: 23100904-040
Client Sample ID: G12S Duplicate
Matrix: GROUNDWATER
Collection Date: 10/24/2023 11:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	11/20/2023 17:06	R339926

Teklab, Inc.
Environmental Laboratory

Sample Summary

Client: Ramboll
Client Project: JOP-23Q4

Work Order: 23100904
Report Date: 01-Dec-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23100904-001	G01D	Groundwater	1	10/23/2023 12:44
23100904-002	G02D	Groundwater	1	10/23/2023 13:35
23100904-003	G03	Groundwater	1	10/23/2023 14:24
23100904-004	G05	Groundwater	1	10/24/2023 14:03
23100904-005	G06	Groundwater	1	10/24/2023 13:22
23100904-006	G07	Groundwater	1	10/24/2023 12:40
23100904-007	G08	Groundwater	1	10/24/2023 12:53
23100904-008	G09	Groundwater	1	10/25/2023 14:34
23100904-009	G10	Groundwater	1	10/24/2023 12:24
23100904-010	G11	Groundwater	1	10/24/2023 11:21
23100904-011	G12D	Groundwater	1	10/24/2023 12:05
23100904-012	G12S	Groundwater	1	10/24/2023 11:25
23100904-013	G13D	Groundwater	1	10/24/2023 10:52
23100904-014	G13S	Groundwater	1	10/24/2023 10:27
23100904-015	G151	Groundwater	1	10/25/2023 9:41
23100904-016	G153	Groundwater	1	10/25/2023 13:25
23100904-017	G16S	Groundwater	1	10/24/2023 9:55
23100904-018	G18S	Groundwater	1	10/23/2023 12:05
23100904-019	G19D	Groundwater	1	10/23/2023 13:19
23100904-020	G19S	Groundwater	1	10/23/2023 13:03
23100904-021	G20D	Groundwater	1	10/24/2023 9:27
23100904-022	G20S	Groundwater	1	10/24/2023 9:02
23100904-023	G21D	Groundwater	1	10/23/2023 15:30
23100904-024	G21S	Groundwater	1	10/23/2023 15:08
23100904-025	G22D	Groundwater	1	10/23/2023 14:40
23100904-026	G22S	Groundwater	1	10/23/2023 14:19
23100904-027	G23S	Groundwater	1	10/23/2023 12:34
23100904-028	G24S	Groundwater	1	10/23/2023 13:54
23100904-029	G51D	Groundwater	1	10/25/2023 8:42
23100904-030	G52D	Groundwater	1	10/24/2023 10:22
23100904-031	G53D	Groundwater	1	10/25/2023 13:59
23100904-032	G54D	Groundwater	1	10/25/2023 12:46
23100904-033	Well 2	Groundwater	1	10/24/2023 9:06
23100904-034	Well 3	Groundwater	1	10/24/2023 9:44
23100904-035	XPW01	Groundwater	1	10/25/2023 11:16
23100904-036	XPW02	Groundwater	1	10/25/2023 12:03
23100904-037	XPW03	Groundwater	1	10/25/2023 10:25
23100904-038	Field Blank	Aqueous	1	10/25/2023 14:31
23100904-039	G52D Duplicate	Groundwater	1	10/24/2023 10:22

Sample Summary

http://www.teklabinc.com/

Client: Ramboll
Client Project: JOP-23Q4

Work Order: 23100904
Report Date: 01-Dec-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23100904-040	G12S Duplicate	Groundwater	1	10/24/2023 11:25

Teklab, Inc.
Environmental Laboratory

Receiving Check List

Client: Ramboll
Client Project: JOP-23Q4

Work Order: 23100904
Report Date: 01-Dec-23

Carrier: Tracy Carroll

Received By: AMD

Completed by: Amber Dilallo
On: 26-Oct-23

Reviewed by: Ellie Hopkins
On: 26-Oct-23

Pages to follow: Chain of custody 6 Extra pages included 39

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 2.0
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #90719. - ERH/HW/amberdilallo - 10/26/2023 10:39:24 AM

Additional Nitric Acid (93773) was needed in G16S, G13S, G18S and G153 upon arrival at the laboratory. - ERH/HW/amberdilallo - 10/26/2023 10:39:29 AM

Samples collected on 10/24/23 and 10/25/23 were delivered to the laboratory on 10/25/23 at 1745 (on ice - 2.0C - LTG1). - AMD/HW/ERH 10/26/23

23100904

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp-Joppa	Report To: Brian Voelker	Attention: Brian Voelker
Address: 2100 Portland Road	Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp
Joppa, IL 62953	Roger Faughn - roger.faughn@vistracorp.com	Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

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

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: JOP_257_401	JOP_845_401	JOP_SUP_000	JOP_PGMP_401	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G01D			10/23/23	1244		2			2							✓	✓	✓			23100904-001
2	G02D			10/23/23	1335		2			2							✓	✓	✓			002
3	G03			10/23/23	1424		2			2							✓	✓	✓			003
4	G05						2			2							✓	✓	✓			004
5	G06						2			2							✓	✓	✓			005
6	G07			10/24/23	1240		2			2							✓	✓	✓			006
7	G08			10-24-23	1253		2			2							✓	✓	✓			007
8	G09						2			2							✓	✓	✓			008
9	G10			10-24-23	1224		2			2							✓	✓	✓			009
10	G11			10-24-23	1121		2			2							✓	✓	✓			010
11	G12D			10/24/23	1205		2			2									✓	✓		011
12	G12S			10/24/23	1125		2			2									✓	✓		012
13	G13D			10/24/23	1052		2			2									✓	✓		013
14	G13S			10/24/23	1027		2			2									✓	✓		014
15	G151						2			2										✓		015
16	G153						2			2										✓		016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
JOP-23Q4 Rev 1	J. Colp	10/24	1700	Amber Dillard	10/24/23	1700	2.2	Y	N	Y
Ra-226/228 only										

HNO_3(92447) added to G16S, G13S, G18S EBH 10/25/23

90719

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Justin Colp
SIGNATURE of SAMPLER:	Justin Colp
DATE Signed (MM/DD/YY):	10-24-23

VTG5

CHAIN-OF-CUSTODY / Analytical Request Document

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

23100904

Page: 2 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Joppa	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	2100 Portland Road	Copy To:	Sam Davies: samantha.davies@vistracorp.com	Company Name:	Vistra Corp
	Joppa, IL 62953		Roger Faughn - roger.faughn@vistracorp.com	Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES | **GROUND WATER** | DRINKING WATER

UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	Sample ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N: Analysis Test	JOP_257_401	JOP_845_401	JOP_SUP_000	JOP_PGMP_401	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G16S			10/24/23	955		2			2									✓	✓		23100904-017
2	G18S			10-23-23	1205		2			2									✓	✓		018
3	G19D			10-23-23	1319		2			2									✓	✓		019
4	G19S			10-23-23	1303		2			2									✓	✓		020
5	G20D			10/24/23	927		2			2									✓	✓		021
6	G20S			10/24/23	902		2			2									✓	✓		022
7	G21D			10-23-23	1530		2			2									✓	✓		023
8	G21S				1508		2			2									✓	✓		024
9	G22D				1440		2			2									✓	✓		025
10	G22S				1419		2			2									✓	✓		026
11	G23S				1234		2			2									✓	✓		027
12	G24S				1354		2			2									✓	✓		028
13	G51D						2			2							✓	✓	✓			029
14	G52D			10-24-23	1022		2			2							✓	✓	✓			030
15	G53D						2			2							✓	✓	✓			031
16	G54D						2			2							✓	✓	✓			032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q4 Rev 1	J. Colp	10/24	1700	[signature]	10/24/23	1700	Y / N
Re 276/278, only							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10-24-23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Joppa	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	2100 Portland Road	Copy To:	Sam Davies: samantha.davies@vistracorp.com	Company Name:	Vistra Corp
	Joppa, IL 62953		Roger Faughn - roger.faughn@vistracorp.com	Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

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

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	JOP_257_401	JOP_845_401	JOP_SUP_000	JOP_PGMP_401	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G54S																		✓			N/A
2	SG02																✓	✓				N/A
3	Well 2			10-24-23	0906		2			2									✓	✓		23100904-033
4	Well 3			10-24-23	0944		2			2									✓	✓		034
5	XPW01						2			2								✓	✓			035
6	XPW02						2			2								✓	✓			036
7	XPW03						2			2								✓	✓			037
8	XSG01																✓	✓				N/A
9	Field Blank						2			2							✓	✓	✓	✓		23100904-038
10	G52D Duplicate			10-24-23	1022		2			2							✓	✓	✓			039
11	G12S Duplicate			10/24/23	1125		2			2									✓	✓		040
12	~~Well 1~~			10-24-23	0843																	
13	Extra 10/24/23																					
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q4 Rev 1	J. Colp	10/24	1700	Amber Dilallo	10/24/23	1700	Y / N
Ra-226/228 only							

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Justin Colp		
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	10-24-23

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

23100904

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp-Joppa	Report To: Brian Voelker	Attention: Brian Voelker
Address: 2100 Portland Road	Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp
Joppa, IL 62953	Roger Faughn - roger.faughn@vistracorp.com	Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

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

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	JOP_257_401	JOP_845_401	JOP_SUP_000	JOP_PGMP_401	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G01D						2			2							✓	✓	✓			23100904-001
2	G02D						2			2							✓	✓	✓			002
3	G03						2			2							✓	✓	✓			003
4	G05			10/24/23	1403		2			2							✓	✓	✓			004
5	G06			10/24/23	1322		2			2							✓	✓	✓			005
6	G07						2			2							✓	✓	✓			006
7	G08						2			2							✓	✓	✓			007
8	G09			10/25/23	1434		2			2							✓	✓	✓			008
9	G10						2			2							✓	✓	✓			009
10	G11						2			2							✓	✓	✓			010
11	G12D						2			2									✓	✓		011
12	G12S						2			2									✓	✓		012
13	G13D						2			2									✓	✓		013
14	G13S						2			2									✓	✓		014
15	G151			10/25/23	921		2			2										✓		015
16	G153			10/25/23	1325		2			2										✓		016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
JOP-23Q4 Rev 1	Tracy Carroll	10/25/23	1745	[signature]	10/25/23	1745	2.0	Y	N	Y
Ra226/228 only							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: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll

DATE Signed (MM/DD/YY): 10/25/23

Preserved in lab w/ HNO3 (93773) to PH< 90719 HW 10/26/23 G153 Bottle 2 of 2

LIC 1

HW 10/26/23

23100904

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-Joppa
Address:	2100 Portland Road
	Joppa, IL 62953
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
	Roger Faughn - roger.faughn@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Jason Stuckey
Company Name:	Vistra Corp
Address:	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

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

Site Location **STATE:** IL

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: JOP_257_401	JOP_845_401	JOP_SUP_000	JOP_PGMP_401	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G16S						2			2									✓	✓		23100904-017
2	G18S						2			2									✓	✓		018
3	G19D						2			2									✓	✓		019
4	G19S						2			2									✓	✓		020
5	G20D						2			2									✓	✓		021
6	G20S						2			2									✓	✓		022
7	G21D						2			2									✓	✓		023
8	G21S						2			2									✓	✓		024
9	G22D						2			2									✓	✓		025
10	G22S						2			2									✓	✓		026
11	G23S						2			2									✓	✓		027
12	G24S						2			2									✓	✓		028
13	G51D			10/25/23	842		2			2							✓	✓	✓			029
14	G52D						2			2							✓	✓	✓			030
15	G53D			10/25/23	1359		2			2							✓	✓	✓			031
16	G54D			10/25/23	1746		2			2							✓	✓	✓			032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
JOP-23Q4 Rev 1	Tracy Carroll	10/25/23	1745	Stephen Dillard	10/25/23	1745		Y	N	
Ra-226/228 only										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll

DATE Signed (MM/DD/YY): 10/25/23

23100904

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 of 3

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp-Joppa	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 2100 Portland Road	Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp
Joppa, IL 62953	Roger Faughn - roger.faughn@vistracorp.com	Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

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

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	JOP_257_401	JOP_845_401	JOP_SUP_000	JOP_PGMP_401	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G54S																		✓			N/A
2	SG02																✓	✓				N/A
3	Well 2						2			2									✓	✓		23100904-033
4	Well 3						2			2									✓	✓		034
5	XPW01			10/25/23	1116		2			2								✓	✓			035
6	XPW02			10/25/23	1203		2			2								✓	✓			036
7	XPW03			10/25/23	1025		2			2								✓	✓			037
8	XSG01																✓	✓				N/A
9	Field Blank			10/25/23	1431		2			2							✓	✓	✓	✓		23100904-038
10	G52D Duplicate						2			2							✓	✓	✓			039
11	G12S Duplicate						2			2									✓	✓		040
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q4 Rev 1	Tracy Carroll	10/25/23	1745	Amber DeCalla	10/25/23	1745	
Ra-226/228 only							

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Tracy Carroll		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	Tracy Carroll	DATE Signed (MM/DD/YY): 10/25/23		Y	N	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 11/30/2023 2:46:56 PM

JOB DESCRIPTION

Radium-226 and Radium-228
23100904

JOB NUMBER

160-51965-1

Eurofins St. Louis
13715 Rider Trail North
Earth City MO 63045

See page two for job notes and contact information.

Eurofins St. Louis

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization

Rhonda Ridenhower

Generated
11/30/2023 2:46:56 PM

Authorized for release by
Rhonda Ridenhower, Business Unit Manager
Rhonda.Ridenhower@et.eurofinsus.com
Designee for
Jayna Awalt, Project Manager II
Jayna.Awalt@et.eurofinsus.com
(314)298-8566

Table of Contents

Case Narrative

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Job ID: 160-51965-1

Laboratory: Eurofins St. Louis

Narrative

Job Narrative
160-51965-1

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 or unless requested as wet weight by the client. All soil/solid sample results for other parameters are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

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.
.

Receipt
The samples were received on 10/27/2023 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved. The temperatures of the 4 coolers at receipt time were 16.7°C, 17.4°C, 17.4°C and 17.6°C

Gas Flow Proportional Counter
Method 904.0: Radium-228 batch 634473
The detection goal was not met for the following sample. Sample was prepped at a reduced volume due to the presence of matrix interferences: 23100904-032 (160-51965-32). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 batch 634471
The detection goal was not met for the following sample. Samples were prepped at a reduced volume due to the presence of matrix interferences: 23100904-007 (160-51965-7), 23100904-008 (160-51965-8), 23100904-009 (160-51965-9) and 23100904-015 (160-51965-15). Analytical results are reported with the detection limit achieved.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Cooler Temp: Sampler: QC Level: 2

TE 10/26/23

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Project# 23100904

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT Billing/PO: 35179 Phone: 618 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228
	23100904-001	10/23/23 1244	HNO3	Groundwater	✔
	23100904-002	10/23/23 1335	HNO3	Groundwater	✔
	23100904-003	10/23/23 1424	HNO3	Groundwater	✔
	23100904-004	10/24/23 1403	HNO3	Groundwater	✔
	23100904-005	10/24/23 1322	HNO3	Groundwater	✔
	23100904-006	10/24/23 1240	HNO3	Groundwater	✔
	23100904-007	10/24/23 1253	HNO3	Groundwater	✔
	23100904-008	10/25/23 1434	HNO3	Groundwater	✔
	23100904-009	10/24/23 1224	HNO3	Groundwater	✔
	23100904-010	10/24/23 1121	HNO3	Groundwater	✔
	23100904-011	10/24/23 1205	HNO3	Groundwater	✔

160-51965 Chain of Custody

*Relinquished By	Date/Time	Received By	Date/Time
Shae Dibble	10/26/23	Siera Worthington	10/26/23 1530

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: QC Level: ☑ 2
TE 10/26/23

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project# 23100904

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT Billing/PO: 35179 Phone: 618 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228
	23100904-012	10/24/23 1125	HNO3	Groundwater	✔
	23100904-013	10/24/23 1052	HNO3	Groundwater	✔
	23100904-014	10/24/23 1027	HNO3	Groundwater	✔
	23100904-015	10/25/23 0941	HNO3	Groundwater	✔
	23100904-016	10/25/23 1325	HNO3	Groundwater	✔
	23100904-017	10/24/23 0955	HNO3	Groundwater	✔
	23100904-018	10/23/23 1205	HNO3	Groundwater	✔
	23100904-019	10/23/23 1319	HNO3	Groundwater	✔
	23100904-020	10/23/23 1303	HNO3	Groundwater	✔
	23100904-021	10/24/23 0927	HNO3	Groundwater	✔
	23100904-022	10/24/23 0902	HNO3	Groundwater	✔

*Relinquished By	Date/Time	Received By	Date/Time
	10/26/23	Sima Worthington	10/26/23 1530

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: QC Level: 2

TE 9AM 10/26/23

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project# 23100904

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT Billing/PO: 35179 Phone: 618 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228											
	23100904-023	10/23/23 1530	HNO3	Groundwater	✔											
	23100904-024	10/23/23 1508	HNO3	Groundwater	✔											
	23100904-025	10/23/23 1440	HNO3	Groundwater	✔											
	23100904-026	10/23/23 1419	HNO3	Groundwater	✔											
	23100904-027	10/23/23 1234	HNO3	Groundwater	✔											
	23100904-028	10/23/23 1354	HNO3	Groundwater	✔											
	23100904-029	10/25/23 0842	HNO3	Groundwater	✔											
	23100904-030	10/24/23 1022	HNO3	Groundwater	✔											
	23100904-031	10/25/23 1359	HNO3	Groundwater	✔											
	23100904-032	10/25/23 12.46	HNO3	Groundwater	✔											
	23100904-033	10/24/23 0906	HNO3	Groundwater	✔											

*Relinquished By	Date/Time	Received By	Date/Time
Shaun Dilallo	10/26/23	Sima Worthington	10/26/23 1530

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: QC Level: 2 JE EBH 10/26/23

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project# 23100904

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT Billing/PO: 35179 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.

EBH 10/24/23

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228												
	23100904-034	10/24/23 0944	HNO3	Groundwater	✔												
	23100904-035 10/25/23	~~10/24/23 0906~~ 1110	HNO3	Groundwater	✔												
	23100904-036 10/25/23	~~10/24/23 0944~~ 1203	HNO3	Groundwater	✔												
	23100904-037	10/25/23 1025	HNO3	Groundwater	✔												
	23100904-038	10/25/23 1431	HNO3	Groundwater	✔												
	23100904-039	10/24/23 1022	HNO3	Groundwater	✔												
	23100904-040	10/24/23 1125	HNO3	Groundwater	✔												
			HNO3	Groundwater	✔												
			HNO3	Groundwater	✔												
			HNO3	Groundwater	✔												
			HNO3	Groundwater	✔												

*Relinquished By	Date/Time	Received By	Date/Time
Erica Dillard	10/26/23	Sierra Washington	10/26/23 1530

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-51965-1
SDG Number: 23100904

Login Number: 51965
List Number: 1
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 460-51965-1
SDG: 23100904

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-51965-1	23100904-001	Water	10/23/23 12:44	10/27/23 15:30
160-51965-2	23100904-002	Water	10/23/23 13:35	10/27/23 15:30
160-51965-3	23100904-003	Water	10/23/23 14:24	10/27/23 15:30
160-51965-4	23100904-004	Water	10/24/23 14:03	10/27/23 15:30
160-51965-5	23100904-005	Water	10/24/23 13:22	10/27/23 15:30
160-51965-6	23100904-006	Water	10/24/23 12:40	10/27/23 15:30
160-51965-7	23100904-007	Water	10/24/23 12:53	10/27/23 15:30
160-51965-8	23100904-008	Water	10/25/23 14:34	10/27/23 15:30
160-51965-9	23100904-009	Water	10/24/23 12:24	10/27/23 15:30
160-51965-10	23100904-010	Water	10/24/23 11:21	10/27/23 15:30
160-51965-11	23100904-011	Water	10/24/23 12:05	10/27/23 15:30
160-51965-12	23100904-012	Water	10/24/23 11:25	10/27/23 15:30
160-51965-13	23100904-013	Water	10/24/23 10:52	10/27/23 15:30
160-51965-14	23100904-014	Water	10/24/23 10:27	10/27/23 15:30
160-51965-15	23100904-015	Water	10/25/23 09:41	10/27/23 15:30
160-51965-16	23100904-016	Water	10/25/23 13:25	10/27/23 15:30
160-51965-17	23100904-017	Water	10/24/23 09:55	10/27/23 15:30
160-51965-18	23100904-018	Water	10/23/23 12:05	10/27/23 15:30
160-51965-19	23100904-019	Water	10/23/23 13:19	10/27/23 15:30
160-51965-20	23100904-020	Water	10/23/23 13:03	10/27/23 15:30
160-51965-21	23100904-021	Water	10/24/23 09:27	10/27/23 15:30
160-51965-22	23100904-022	Water	10/24/23 09:02	10/27/23 15:30
160-51965-23	23100904-023	Water	10/23/23 15:30	10/27/23 15:30
160-51965-24	23100904-024	Water	10/23/23 15:08	10/27/23 15:30
160-51965-25	23100904-025	Water	10/23/23 14:40	10/27/23 15:30
160-51965-26	23100904-026	Water	10/23/23 14:19	10/27/23 15:30
160-51965-27	23100904-027	Water	10/23/23 12:34	10/27/23 15:30
160-51965-28	23100904-028	Water	10/23/23 13:54	10/27/23 15:30
160-51965-29	23100904-029	Water	10/25/23 08:42	10/27/23 15:30
160-51965-30	23100904-030	Water	10/24/23 10:22	10/27/23 15:30
160-51965-31	23100904-031	Water	10/25/23 13:59	10/27/23 15:30
160-51965-32	23100904-032	Water	10/25/23 12:46	10/27/23 15:30
160-51965-33	23100904-033	Water	10/24/23 09:06	10/27/23 15:30
160-51965-34	23100904-034	Water	10/24/23 09:44	10/27/23 15:30
160-51965-35	23100904-035	Water	10/25/23 11:16	10/27/23 15:30
160-51965-36	23100904-036	Water	10/25/23 12:03	10/27/23 15:30
160-51965-37	23100904-037	Water	10/25/23 10:25	10/27/23 15:30
160-51965-38	23100904-038	Water	10/25/23 14:31	10/27/23 15:30
160-51965-39	23100904-039	Water	10/24/23 10:22	10/27/23 15:30
160-51965-40	23100904-040	Water	10/24/23 11:25	10/27/23 15:30

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-001

Date Collected: 10/23/23 12:44
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-1

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	**0.215**		0.120	0.122	1.00	0.156	pCi/L	10/31/23 07:34	11/29/23 14:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.2*		*30 - 110*	*10/31/23 07:34*	*11/29/23 14:28*	*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	0.879	U	0.627	0.633	1.00	0.957	pCi/L	10/31/23 07:36	11/20/23 17:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.2*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:11*	*1*
Y Carrier	*78.1*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:11*	*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	**1.09**		0.638	0.645	5.00	0.957	pCi/L		11/30/23 10:52	1

Client Sample ID: 23100904-002

Date Collected: 10/23/23 13:35
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-2

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	**0.257**		0.103	0.106	1.00	0.114	pCi/L	10/31/23 07:34	11/29/23 14:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.9*		*30 - 110*	*10/31/23 07:34*	*11/29/23 14:28*	*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	**0.769**		0.434	0.440	1.00	0.625	pCi/L	10/31/23 07:36	11/20/23 17:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.9*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:11*	*1*
Y Carrier	*78.9*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:11*	*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	**1.03**		0.446	0.453	5.00	0.625	pCi/L		11/30/23 10:52	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-003
Date Collected: 10/23/23 14:24
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-3
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	0.0893	U	0.106	0.107	1.00	0.174	pCi/L	10/31/23 07:34	11/29/23 14:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.6*		*30 - 110*	*10/31/23 07:34*	*11/29/23 14:29*	*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	**1.14**		0.687	0.695	1.00	0.996	pCi/L	10/31/23 07:36	11/20/23 17:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.6*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*1*
Y Carrier	*77.4*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*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	**1.23**		0.695	0.703	5.00	0.996	pCi/L		11/30/23 10:52	1

Client Sample ID: 23100904-004
Date Collected: 10/24/23 14:03
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-4
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	**0.314**		0.109	0.112	1.00	0.111	pCi/L	10/31/23 07:34	11/29/23 14:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.2*		*30 - 110*	*10/31/23 07:34*	*11/29/23 14:29*	*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	0.505	U	0.356	0.359	1.00	0.534	pCi/L	10/31/23 07:36	11/20/23 17:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.2*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*1*
Y Carrier	*81.9*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*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	**0.820**		0.372	0.376	5.00	0.534	pCi/L		11/30/23 10:52	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-005

Date Collected: 10/24/23 13:22
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-5

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.128	U	0.0981	0.0988	1.00	0.140	pCi/L	10/31/23 07:34	11/29/23 14:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.9*		*30 - 110*	*10/31/23 07:34*	*11/29/23 14:29*	*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	**1.16**		0.607	0.617	1.00	0.838	pCi/L	10/31/23 07:36	11/20/23 17:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.9*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*1*
Y Carrier	*78.5*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*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	**1.29**		0.615	0.625	5.00	0.838	pCi/L		11/30/23 10:52	1

Client Sample ID: 23100904-006

Date Collected: 10/24/23 12:40
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-6

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	**0.138**		0.0918	0.0926	1.00	0.132	pCi/L	10/31/23 07:34	11/29/23 19:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.7*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:07*	*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	0.598	U	0.453	0.457	1.00	0.702	pCi/L	10/31/23 07:36	11/20/23 17:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.7*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*1*
Y Carrier	*77.4*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*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	**0.737**		0.462	0.466	5.00	0.702	pCi/L		11/30/23 10:52	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-007

Date Collected: 10/24/23 12:53
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-7
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	0.593		0.342	0.346	1.00	0.450	pCi/L	10/31/23 07:34	11/29/23 19:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*40.3*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:08*	*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	5.02	G	2.06	2.11	1.00	2.64	pCi/L	10/31/23 07:36	11/20/23 17:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*40.3*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*1*
Y Carrier	*82.6*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*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	5.61		2.09	2.14	5.00	2.64	pCi/L		11/30/23 10:52	1

Client Sample ID: 23100904-008

Date Collected: 10/25/23 14:34
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-8
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	0.0205	U	0.0811	0.0811	1.00	0.157	pCi/L	10/31/23 07:34	11/29/23 19:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.1*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:08*	*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	0.914	U G	0.699	0.704	1.00	1.09	pCi/L	10/31/23 07:36	11/20/23 17:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.1*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*1*
Y Carrier	*83.4*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*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	0.934	U	0.704	0.709	5.00	1.09	pCi/L		11/30/23 10:52	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-009
Date Collected: 10/24/23 12:24
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-9
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	0.191	U	0.139	0.140	1.00	0.201	pCi/L	10/31/23 07:34	11/29/23 19:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*69.8*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:08*	*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	**1.31**	**G**	0.716	0.726	1.00	1.01	pCi/L	10/31/23 07:36	11/20/23 17:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*69.8*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*1*
Y Carrier	*81.1*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*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	**1.50**		0.729	0.739	5.00	1.01	pCi/L		11/30/23 10:52	1

Client Sample ID: 23100904-010
Date Collected: 10/24/23 11:21
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-10
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00444	U	0.0441	0.0441	1.00	0.0971	pCi/L	10/31/23 07:34	11/29/23 19:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:12*	*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	**1.51**		0.572	0.589	1.00	0.761	pCi/L	10/31/23 07:36	11/20/23 17:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*1*
Y Carrier	*82.2*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:12*	*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	**1.51**		0.574	0.591	5.00	0.761	pCi/L		11/30/23 10:52	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-011
Date Collected: 10/24/23 12:05
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-11
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00729	U	0.0461	0.0461	1.00	0.101	pCi/L	10/31/23 07:34	11/29/23 19:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:15*	*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	**0.657**		0.415	0.419	1.00	0.615	pCi/L	10/31/23 07:36	11/20/23 17:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*1*
Y Carrier	*83.4*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*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	**0.657**		0.418	0.422	5.00	0.615	pCi/L		11/30/23 10:52	1

Client Sample ID: 23100904-012
Date Collected: 10/24/23 11:25
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-12
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	0.0892	U	0.0732	0.0736	1.00	0.107	pCi/L	10/31/23 07:34	11/29/23 19:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.4*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:15*	*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	0.512	U	0.391	0.394	1.00	0.601	pCi/L	10/31/23 07:36	11/20/23 17:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.4*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*1*
Y Carrier	*86.0*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*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	**0.601**		0.398	0.401	5.00	0.601	pCi/L		11/30/23 10:52	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-013
Date Collected: 10/24/23 10:52
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-13
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	0.0672	U	0.0697	0.0699	1.00	0.110	pCi/L	10/31/23 07:34	11/29/23 19:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.4*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:15*	*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	**0.679**		0.440	0.445	1.00	0.652	pCi/L	10/31/23 07:36	11/20/23 17:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.4*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*1*
Y Carrier	*81.9*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*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	**0.746**		0.445	0.450	5.00	0.652	pCi/L		11/30/23 10:52	1

Client Sample ID: 23100904-014
Date Collected: 10/24/23 10:27
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-14
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	-0.0318	U	0.0453	0.0454	1.00	0.115	pCi/L	10/31/23 07:34	11/29/23 19:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.2*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:15*	*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	**0.572**		0.385	0.388	1.00	0.572	pCi/L	10/31/23 07:36	11/20/23 17:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.2*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*1*
Y Carrier	*88.2*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*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**		0.388	0.391	5.00	0.572	pCi/L		11/30/23 10:52	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-015
Date Collected: 10/25/23 09:41
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-15
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	3.53		0.570	0.652	1.00	0.298	pCi/L	10/31/23 07:34	11/29/23 19:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*56.7*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:17*	*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	5.44	G	1.66	1.73	1.00	1.94	pCi/L	10/31/23 07:36	11/20/23 17:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*56.7*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*1*
Y Carrier	*83.4*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*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	8.97		1.76	1.85	5.00	1.94	pCi/L		11/30/23 10:52	1

Client Sample ID: 23100904-016
Date Collected: 10/25/23 13:25
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-16
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	0.358		0.117	0.122	1.00	0.0961	pCi/L	10/31/23 07:34	11/29/23 19:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.4*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:17*	*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	0.361	U	0.394	0.395	1.00	0.640	pCi/L	10/31/23 07:36	11/20/23 17:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.4*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*1*
Y Carrier	*79.3*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.719		0.411	0.413	5.00	0.640	pCi/L		11/30/23 10:52	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-017
Date Collected: 10/24/23 09:55
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-17
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	**0.0992**		0.0694	0.0700	1.00	0.0925	pCi/L	10/31/23 07:34	11/29/23 19:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.9*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:17*	*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	0.155	U	0.339	0.339	1.00	0.590	pCi/L	10/31/23 07:36	11/20/23 17:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.9*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*1*
Y Carrier	*92.0*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*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	0.255	U	0.346	0.346	5.00	0.590	pCi/L		11/30/23 10:52	1

Client Sample ID: 23100904-018
Date Collected: 10/23/23 12:05
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-18
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	0.112	U	0.0995	0.100	1.00	0.150	pCi/L	10/31/23 07:34	11/29/23 19:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:17*	*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	0.769	U	0.543	0.548	1.00	0.825	pCi/L	10/31/23 07:36	11/20/23 17:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*1*
Y Carrier	*89.3*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*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	**0.881**		0.552	0.557	5.00	0.825	pCi/L		11/30/23 10:52	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-019

Date Collected: 10/23/23 13:19
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-19

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.213**		0.102	0.103	1.00	0.122	pCi/L	10/31/23 07:34	11/29/23 19:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:17*	*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	0.407	U	0.326	0.329	1.00	0.495	pCi/L	10/31/23 07:36	11/20/23 17:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*1*
Y Carrier	*82.6*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*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	**0.620**		0.342	0.345	5.00	0.495	pCi/L		11/30/23 10:52	1

Client Sample ID: 23100904-020

Date Collected: 10/23/23 13:03
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-20

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0794	U	0.0660	0.0664	1.00	0.0964	pCi/L	10/31/23 07:34	11/29/23 19:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.5*		*30 - 110*	*10/31/23 07:34*	*11/29/23 19:17*	*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	0.418	U	0.334	0.337	1.00	0.515	pCi/L	10/31/23 07:36	11/20/23 17:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.5*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*1*
Y Carrier	*88.6*		*30 - 110*	*10/31/23 07:36*	*11/20/23 17:13*	*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	0.497	U	0.340	0.343	5.00	0.515	pCi/L		11/30/23 10:52	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-021

Date Collected: 10/24/23 09:27
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-21

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	0.261		0.105	0.107	1.00	0.110	pCi/L	10/31/23 07:37	11/29/23 14:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.9*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:18*	*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	0.796		0.460	0.466	1.00	0.659	pCi/L	10/31/23 07:38	11/20/23 16:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.9*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:53*	*1*
Y Carrier	*77.4*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:53*	*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	1.06		0.472	0.478	5.00	0.659	pCi/L		11/30/23 13:28	1

Client Sample ID: 23100904-022

Date Collected: 10/24/23 09:02
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-22

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.129		0.0785	0.0794	1.00	0.102	pCi/L	10/31/23 07:37	11/29/23 14:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:18*	*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	0.366	U	0.387	0.389	1.00	0.629	pCi/L	10/31/23 07:38	11/20/23 16:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:55*	*1*
Y Carrier	*77.4*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:55*	*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	0.395	0.397	5.00	0.629	pCi/L		11/30/23 13:28	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-023
Date Collected: 10/23/23 15:30
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-23
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.105	U	0.0809	0.0814	1.00	0.117	pCi/L	10/31/23 07:37	11/29/23 14:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.4*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:18*	*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	0.383	U	0.479	0.480	1.00	0.794	pCi/L	10/31/23 07:38	11/20/23 16:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.4*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:55*	*1*
Y Carrier	*77.0*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:55*	*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	0.488	U	0.486	0.487	5.00	0.794	pCi/L		11/30/23 13:28	1

Client Sample ID: 23100904-024
Date Collected: 10/23/23 15:08
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-24
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0456	U	0.0563	0.0564	1.00	0.0922	pCi/L	10/31/23 07:37	11/29/23 14:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:20*	*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	-0.129	U	0.366	0.366	1.00	0.700	pCi/L	10/31/23 07:38	11/20/23 16:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.9*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:55*	*1*
Y Carrier	*86.0*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:55*	*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	0.0456	U	0.370	0.370	5.00	0.700	pCi/L		11/30/23 13:28	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-025
Date Collected: 10/23/23 14:40
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-25
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.236		0.0964	0.0987	1.00	0.0952	pCi/L	10/31/23 07:37	11/29/23 14:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:20*	*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	0.455	U	0.409	0.411	1.00	0.644	pCi/L	10/31/23 07:38	11/20/23 16:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:55*	*1*
Y Carrier	*75.5*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:55*	*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	0.691		0.420	0.423	5.00	0.644	pCi/L		11/30/23 13:28	1

Client Sample ID: 23100904-026
Date Collected: 10/23/23 14:19
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-26
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	0.317		0.111	0.114	1.00	0.107	pCi/L	10/31/23 07:37	11/29/23 14:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.4*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:20*	*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	0.294	U	0.353	0.354	1.00	0.582	pCi/L	10/31/23 07:38	11/20/23 16:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.4*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:55*	*1*
Y Carrier	*81.9*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:55*	*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	0.610		0.370	0.372	5.00	0.582	pCi/L		11/30/23 13:28	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-027
Date Collected: 10/23/23 12:34
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-27
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.123		0.0810	0.0818	1.00	0.112	pCi/L	10/31/23 07:37	11/29/23 14:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.0*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:20*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.442	U	0.362	0.364	1.00	0.560	pCi/L	10/31/23 07:38	11/20/23 16:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.0*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:56*	*1*
Y Carrier	*76.6*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:56*	*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	0.565		0.371	0.373	5.00	0.560	pCi/L		11/30/23 13:28	1

Client Sample ID: 23100904-028
Date Collected: 10/23/23 13:54
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-28
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0732	U	0.0708	0.0711	1.00	0.109	pCi/L	10/31/23 07:37	11/29/23 14:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:20*	*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	0.383	0.383	1.00	0.680	pCi/L	10/31/23 07:38	11/20/23 16:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:58*	*1*
Y Carrier	*78.5*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:58*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.207	U	0.389	0.390	5.00	0.680	pCi/L		11/30/23 13:28	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-029
Date Collected: 10/25/23 08:42
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-29
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0681	U	0.0756	0.0758	1.00	0.122	pCi/L	10/31/23 07:37	11/29/23 14:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.9*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:28*	*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	**0.752**		0.420	0.426	1.00	0.594	pCi/L	10/31/23 07:38	11/20/23 16:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.9*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:58*	*1*
Y Carrier	*77.8*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:58*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.820**		0.427	0.433	5.00	0.594	pCi/L		11/30/23 13:28	1

Client Sample ID: 23100904-030
Date Collected: 10/24/23 10:22
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-30
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	**0.453**		0.142	0.148	1.00	0.137	pCi/L	10/31/23 07:37	11/29/23 14:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.6*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:28*	*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	**0.930**		0.536	0.543	1.00	0.767	pCi/L	10/31/23 07:38	11/20/23 16:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.6*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:58*	*1*
Y Carrier	*72.1*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:58*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.38**		0.554	0.563	5.00	0.767	pCi/L		11/30/23 13:28	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-031
Date Collected: 10/25/23 13:59
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-31
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	0.141		0.0946	0.0954	1.00	0.134	pCi/L	10/31/23 07:37	11/29/23 14:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.4*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:28*	*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	0.0597	U	0.329	0.329	1.00	0.601	pCi/L	10/31/23 07:38	11/20/23 16:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.4*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:58*	*1*
Y Carrier	*80.4*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:58*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.201	U	0.342	0.343	5.00	0.601	pCi/L		11/30/23 13:28	1

Client Sample ID: 23100904-032
Date Collected: 10/25/23 12:46
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-32
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	0.398		0.225	0.228	1.00	0.301	pCi/L	10/31/23 07:37	11/29/23 14:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*47.6*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:28*	*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	0.782	U G	0.864	0.867	1.00	1.41	pCi/L	10/31/23 07:38	11/20/23 16:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*47.6*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:58*	*1*
Y Carrier	*80.4*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:58*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.18	U	0.893	0.896	5.00	1.41	pCi/L		11/30/23 13:28	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-033
Date Collected: 10/24/23 09:06
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-33
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	0.0471	U	0.0732	0.0733	1.00	0.126	pCi/L	10/31/23 07:37	11/29/23 14:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.9*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:28*	*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	0.211	U	0.338	0.339	1.00	0.579	pCi/L	10/31/23 07:38	11/20/23 16:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.9*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:59*	*1*
Y Carrier	*78.1*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:59*	*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	0.258	U	0.346	0.347	5.00	0.579	pCi/L		11/30/23 13:28	1

Client Sample ID: 23100904-034
Date Collected: 10/24/23 09:44
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-34
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	0.0122	U	0.0769	0.0769	1.00	0.152	pCi/L	10/31/23 07:37	11/29/23 14:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.2*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:30*	*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	**1.07**		0.528	0.537	1.00	0.704	pCi/L	10/31/23 07:38	11/20/23 16:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.2*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:59*	*1*
Y Carrier	*79.3*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:59*	*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	**1.08**		0.534	0.542	5.00	0.704	pCi/L		11/30/23 13:28	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-035
Date Collected: 10/25/23 11:16
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-35
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	0.151	U	0.117	0.118	1.00	0.170	pCi/L	10/31/23 07:37	11/29/23 14:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.1*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:30*	*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	**1.16**		0.626	0.635	1.00	0.867	pCi/L	10/31/23 07:38	11/20/23 16:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.1*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:59*	*1*
Y Carrier	*75.1*		*30 - 110*	*10/31/23 07:38*	*11/20/23 16:59*	*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	**1.31**		0.637	0.646	5.00	0.867	pCi/L		11/30/23 13:28	1

Client Sample ID: 23100904-036
Date Collected: 10/25/23 12:03
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-36
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	0.0902	U	0.0724	0.0728	1.00	0.106	pCi/L	10/31/23 07:37	11/29/23 14:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.5*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:30*	*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	**1.12**		0.450	0.462	1.00	0.576	pCi/L	10/31/23 07:38	11/20/23 17:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.5*		*30 - 110*	*10/31/23 07:38*	*11/20/23 17:05*	*1*
Y Carrier	*77.4*		*30 - 110*	*10/31/23 07:38*	*11/20/23 17:05*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.21**		0.456	0.468	5.00	0.576	pCi/L		11/30/23 13:28	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-037
Date Collected: 10/25/23 10:25
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-37
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	0.0602	U	0.0709	0.0711	1.00	0.115	pCi/L	10/31/23 07:37	11/29/23 14:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.9*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:30*	*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	0.363	U	0.386	0.387	1.00	0.625	pCi/L	10/31/23 07:38	11/20/23 17:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.9*		*30 - 110*	*10/31/23 07:38*	*11/20/23 17:06*	*1*
Y Carrier	*79.6*		*30 - 110*	*10/31/23 07:38*	*11/20/23 17:06*	*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	0.423	U	0.392	0.393	5.00	0.625	pCi/L		11/30/23 13:28	1

Client Sample ID: 23100904-038
Date Collected: 10/25/23 14:31
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-38
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	-0.00856	U	0.0582	0.0582	1.00	0.121	pCi/L	10/31/23 07:37	11/29/23 14:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:30*	*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	-0.211	U	0.319	0.319	1.00	0.638	pCi/L	10/31/23 07:38	11/20/23 17:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*10/31/23 07:38*	*11/20/23 17:06*	*1*
Y Carrier	*83.4*		*30 - 110*	*10/31/23 07:38*	*11/20/23 17:06*	*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	0.000	U	0.324	0.324	5.00	0.638	pCi/L		11/30/23 13:28	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Client Sample ID: 23100904-039
Date Collected: 10/24/23 10:22
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-39
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	0.430		0.139	0.144	1.00	0.151	pCi/L	10/31/23 07:37	11/29/23 14:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.4*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:29*	*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	1.65		0.541	0.562	1.00	0.654	pCi/L	10/31/23 07:38	11/20/23 17:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.4*		*30 - 110*	*10/31/23 07:38*	*11/20/23 17:06*	*1*
Y Carrier	*79.6*		*30 - 110*	*10/31/23 07:38*	*11/20/23 17:06*	*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	2.08		0.559	0.580	5.00	0.654	pCi/L		11/30/23 13:28	1

Client Sample ID: 23100904-040
Date Collected: 10/24/23 11:25
Date Received: 10/27/23 15:30

Lab Sample ID: 160-51965-40
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0588	U	0.0900	0.0901	1.00	0.154	pCi/L	10/31/23 07:37	11/29/23 14:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:29*	*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	0.624		0.413	0.417	1.00	0.618	pCi/L	10/31/23 07:38	11/20/23 17:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*30 - 110*	*10/31/23 07:38*	*11/20/23 17:06*	*1*
Y Carrier	*84.5*		*30 - 110*	*10/31/23 07:38*	*11/20/23 17:06*	*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	0.683		0.423	0.427	5.00	0.618	pCi/L		11/30/23 13:28	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-634469/1-A
Matrix: Water
Analysis Batch: 638759

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634469

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.09741	U	0.0414	0.0424	1.00	0.130	pCi/L	10/31/23 07:34	11/29/23 14:28	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.2*		*30 - 110*	*10/31/23 07:34*	*11/29/23 14:28*	*1*

Lab Sample ID: LCS 160-634469/2-A
Matrix: Water
Analysis Batch: 638759

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634469

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.83		1.12	1.00	0.125	pCi/L	96	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.5*		*30 - 110*

Lab Sample ID: 160-51965-1 DU
Matrix: Water
Analysis Batch: 638759

Client Sample ID: 23100904-001
Prep Type: Total/NA
Prep Batch: 634469

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.215			0.1457	U	0.107	1.00	0.151	pCi/L			0.30	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*88.9*		*30 - 110*

Lab Sample ID: MB 160-634472/1-A
Matrix: Water
Analysis Batch: 638593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634472

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.04666	U	0.0481	0.0482	1.00	0.122	pCi/L	10/31/23 07:37	11/29/23 14:15	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.2*		*30 - 110*	*10/31/23 07:37*	*11/29/23 14:15*	*1*

Lab Sample ID: LCS 160-634472/2-A
Matrix: Water
Analysis Batch: 638593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634472

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.04		1.14	1.00	0.0929	pCi/L	97	75 - 125		

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-634472/2-A
Matrix: Water
Analysis Batch: 638593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634472

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.7		30 - 110

Lab Sample ID: 160-51965-21 DU
Matrix: Water
Analysis Batch: 638593

Client Sample ID: 23100904-021
Prep Type: Total/NA
Prep Batch: 634472

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.261			0.1928		0.0979	1.00	0.115	pCi/L			0.33	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	81.1		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-634471/1-A
Matrix: Water
Analysis Batch: 637571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634471

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3137	U	0.350	0.351	1.00	0.572	pCi/L	10/31/23 07:36	11/20/23 17:10	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		30 - 110	10/31/23 07:36	11/20/23 17:10	1
Y Carrier	81.5		30 - 110	10/31/23 07:36	11/20/23 17:10	1

Lab Sample ID: LCS 160-634471/2-A
Matrix: Water
Analysis Batch: 637571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634471

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.70	8.586		1.24	1.00	0.580	pCi/L	111	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.5		30 - 110
Y Carrier	81.5		30 - 110

Lab Sample ID: 160-51965-1 DU
Matrix: Water
Analysis Batch: 637571

Client Sample ID: 23100904-001
Prep Type: Total/NA
Prep Batch: 634471

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.879	U		0.5801	U	0.531	1.00	0.838	pCi/L			0.26	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 160-51965-1 DU
Matrix: Water
Analysis Batch: 637571

Client Sample ID: 23100904-001
Prep Type: Total/NA
Prep Batch: 634471

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	88.9		30 - 110
Y Carrier	80.4		30 - 110

Lab Sample ID: MB 160-634473/1-A
Matrix: Water
Analysis Batch: 637570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634473

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5678	U	0.434	0.437	1.00	0.673	pCi/L	10/31/23 07:38	11/20/23 16:53	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110	10/31/23 07:38	11/20/23 16:53	1
Y Carrier	82.2		30 - 110	10/31/23 07:38	11/20/23 16:53	1

Lab Sample ID: LCS 160-634473/2-A
Matrix: Water
Analysis Batch: 637570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634473

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.70	9.027		1.27	1.00	0.551	pCi/L	117	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.7		30 - 110
Y Carrier	83.7		30 - 110

Lab Sample ID: 160-51965-21 DU
Matrix: Water
Analysis Batch: 637570

Client Sample ID: 23100904-021
Prep Type: Total/NA
Prep Batch: 634473

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.796			1.142		0.486	1.00	0.595	pCi/L			0.36	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	81.1		30 - 110
Y Carrier	79.3		30 - 110

QC Association Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Rad

Prep Batch: 634469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51965-1	23100904-001	Total/NA	Water	PrecSep-21	
160-51965-2	23100904-002	Total/NA	Water	PrecSep-21	
160-51965-3	23100904-003	Total/NA	Water	PrecSep-21	
160-51965-4	23100904-004	Total/NA	Water	PrecSep-21	
160-51965-5	23100904-005	Total/NA	Water	PrecSep-21	
160-51965-6	23100904-006	Total/NA	Water	PrecSep-21	
160-51965-7	23100904-007	Total/NA	Water	PrecSep-21	
160-51965-8	23100904-008	Total/NA	Water	PrecSep-21	
160-51965-9	23100904-009	Total/NA	Water	PrecSep-21	
160-51965-10	23100904-010	Total/NA	Water	PrecSep-21	
160-51965-11	23100904-011	Total/NA	Water	PrecSep-21	
160-51965-12	23100904-012	Total/NA	Water	PrecSep-21	
160-51965-13	23100904-013	Total/NA	Water	PrecSep-21	
160-51965-14	23100904-014	Total/NA	Water	PrecSep-21	
160-51965-15	23100904-015	Total/NA	Water	PrecSep-21	
160-51965-16	23100904-016	Total/NA	Water	PrecSep-21	
160-51965-17	23100904-017	Total/NA	Water	PrecSep-21	
160-51965-18	23100904-018	Total/NA	Water	PrecSep-21	
160-51965-19	23100904-019	Total/NA	Water	PrecSep-21	
160-51965-20	23100904-020	Total/NA	Water	PrecSep-21	
MB 160-634469/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-634469/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-51965-1 DU	23100904-001	Total/NA	Water	PrecSep-21	

Prep Batch: 634471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51965-1	23100904-001	Total/NA	Water	PrecSep_0	
160-51965-2	23100904-002	Total/NA	Water	PrecSep_0	
160-51965-3	23100904-003	Total/NA	Water	PrecSep_0	
160-51965-4	23100904-004	Total/NA	Water	PrecSep_0	
160-51965-5	23100904-005	Total/NA	Water	PrecSep_0	
160-51965-6	23100904-006	Total/NA	Water	PrecSep_0	
160-51965-7	23100904-007	Total/NA	Water	PrecSep_0	
160-51965-8	23100904-008	Total/NA	Water	PrecSep_0	
160-51965-9	23100904-009	Total/NA	Water	PrecSep_0	
160-51965-10	23100904-010	Total/NA	Water	PrecSep_0	
160-51965-11	23100904-011	Total/NA	Water	PrecSep_0	
160-51965-12	23100904-012	Total/NA	Water	PrecSep_0	
160-51965-13	23100904-013	Total/NA	Water	PrecSep_0	
160-51965-14	23100904-014	Total/NA	Water	PrecSep_0	
160-51965-15	23100904-015	Total/NA	Water	PrecSep_0	
160-51965-16	23100904-016	Total/NA	Water	PrecSep_0	
160-51965-17	23100904-017	Total/NA	Water	PrecSep_0	
160-51965-18	23100904-018	Total/NA	Water	PrecSep_0	
160-51965-19	23100904-019	Total/NA	Water	PrecSep_0	
160-51965-20	23100904-020	Total/NA	Water	PrecSep_0	
MB 160-634471/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-634471/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-51965-1 DU	23100904-001	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Rad

Prep Batch: 634472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51965-21	23100904-021	Total/NA	Water	PrecSep-21	
160-51965-22	23100904-022	Total/NA	Water	PrecSep-21	
160-51965-23	23100904-023	Total/NA	Water	PrecSep-21	
160-51965-24	23100904-024	Total/NA	Water	PrecSep-21	
160-51965-25	23100904-025	Total/NA	Water	PrecSep-21	
160-51965-26	23100904-026	Total/NA	Water	PrecSep-21	
160-51965-27	23100904-027	Total/NA	Water	PrecSep-21	
160-51965-28	23100904-028	Total/NA	Water	PrecSep-21	
160-51965-29	23100904-029	Total/NA	Water	PrecSep-21	
160-51965-30	23100904-030	Total/NA	Water	PrecSep-21	
160-51965-31	23100904-031	Total/NA	Water	PrecSep-21	
160-51965-32	23100904-032	Total/NA	Water	PrecSep-21	
160-51965-33	23100904-033	Total/NA	Water	PrecSep-21	
160-51965-34	23100904-034	Total/NA	Water	PrecSep-21	
160-51965-35	23100904-035	Total/NA	Water	PrecSep-21	
160-51965-36	23100904-036	Total/NA	Water	PrecSep-21	
160-51965-37	23100904-037	Total/NA	Water	PrecSep-21	
160-51965-38	23100904-038	Total/NA	Water	PrecSep-21	
160-51965-39	23100904-039	Total/NA	Water	PrecSep-21	
160-51965-40	23100904-040	Total/NA	Water	PrecSep-21	
MB 160-634472/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-634472/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-51965-21 DU	23100904-021	Total/NA	Water	PrecSep-21	

Prep Batch: 634473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51965-21	23100904-021	Total/NA	Water	PrecSep_0	
160-51965-22	23100904-022	Total/NA	Water	PrecSep_0	
160-51965-23	23100904-023	Total/NA	Water	PrecSep_0	
160-51965-24	23100904-024	Total/NA	Water	PrecSep_0	
160-51965-25	23100904-025	Total/NA	Water	PrecSep_0	
160-51965-26	23100904-026	Total/NA	Water	PrecSep_0	
160-51965-27	23100904-027	Total/NA	Water	PrecSep_0	
160-51965-28	23100904-028	Total/NA	Water	PrecSep_0	
160-51965-29	23100904-029	Total/NA	Water	PrecSep_0	
160-51965-30	23100904-030	Total/NA	Water	PrecSep_0	
160-51965-31	23100904-031	Total/NA	Water	PrecSep_0	
160-51965-32	23100904-032	Total/NA	Water	PrecSep_0	
160-51965-33	23100904-033	Total/NA	Water	PrecSep_0	
160-51965-34	23100904-034	Total/NA	Water	PrecSep_0	
160-51965-35	23100904-035	Total/NA	Water	PrecSep_0	
160-51965-36	23100904-036	Total/NA	Water	PrecSep_0	
160-51965-37	23100904-037	Total/NA	Water	PrecSep_0	
160-51965-38	23100904-038	Total/NA	Water	PrecSep_0	
160-51965-39	23100904-039	Total/NA	Water	PrecSep_0	
160-51965-40	23100904-040	Total/NA	Water	PrecSep_0	
MB 160-634473/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-634473/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-51965-21 DU	23100904-021	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)						
Lab Sample ID	Client Sample ID	Ba (30-110)						
160-51965-1	23100904-001	87.2						
160-51965-1 DU	23100904-001	88.9						
160-51965-2	23100904-002	91.9						
160-51965-3	23100904-003	75.6						
160-51965-4	23100904-004	99.2						
160-51965-5	23100904-005	86.9						
160-51965-6	23100904-006	92.7						
160-51965-7	23100904-007	40.3						
160-51965-8	23100904-008	81.1						
160-51965-9	23100904-009	69.8						
160-51965-10	23100904-010	87.9						
160-51965-11	23100904-011	90.7						
160-51965-12	23100904-012	86.4						
160-51965-13	23100904-013	85.4						
160-51965-14	23100904-014	87.2						
160-51965-15	23100904-015	56.7						
160-51965-16	23100904-016	80.4						
160-51965-17	23100904-017	86.9						
160-51965-18	23100904-018	85.6						
160-51965-19	23100904-019	86.6						
160-51965-20	23100904-020	94.5						
160-51965-21	23100904-021	81.9						
160-51965-21 DU	23100904-021	81.1						
160-51965-22	23100904-022	90.9						
160-51965-23	23100904-023	82.4						
160-51965-24	23100904-024	87.9						
160-51965-25	23100904-025	84.6						
160-51965-26	23100904-026	90.4						
160-51965-27	23100904-027	96.0						
160-51965-28	23100904-028	82.6						
160-51965-29	23100904-029	89.9						
160-51965-30	23100904-030	76.6						
160-51965-31	23100904-031	88.4						
160-51965-32	23100904-032	47.6						
160-51965-33	23100904-033	88.9						
160-51965-34	23100904-034	89.2						
160-51965-35	23100904-035	81.1						
160-51965-36	23100904-036	94.5						
160-51965-37	23100904-037	82.9						
160-51965-38	23100904-038	97.2						
160-51965-39	23100904-039	88.4						
160-51965-40	23100904-040	91.7						
LCS 160-634469/2-A	Lab Control Sample	93.5						
LCS 160-634472/2-A	Lab Control Sample	93.7						
MB 160-634469/1-A	Method Blank	96.2						
MB 160-634472/1-A	Method Blank	90.2						

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51965-1
SDG: 23100904

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
160-51965-1	23100904-001	87.2	78.1
160-51965-1 DU	23100904-001	88.9	80.4
160-51965-2	23100904-002	91.9	78.9
160-51965-3	23100904-003	75.6	77.4
160-51965-4	23100904-004	99.2	81.9
160-51965-5	23100904-005	86.9	78.5
160-51965-6	23100904-006	92.7	77.4
160-51965-7	23100904-007	40.3	82.6
160-51965-8	23100904-008	81.1	83.4
160-51965-9	23100904-009	69.8	81.1
160-51965-10	23100904-010	87.9	82.2
160-51965-11	23100904-011	90.7	83.4
160-51965-12	23100904-012	86.4	86.0
160-51965-13	23100904-013	85.4	81.9
160-51965-14	23100904-014	87.2	88.2
160-51965-15	23100904-015	56.7	83.4
160-51965-16	23100904-016	80.4	79.3
160-51965-17	23100904-017	86.9	92.0
160-51965-18	23100904-018	85.6	89.3
160-51965-19	23100904-019	86.6	82.6
160-51965-20	23100904-020	94.5	88.6
160-51965-21	23100904-021	81.9	77.4
160-51965-21 DU	23100904-021	81.1	79.3
160-51965-22	23100904-022	90.9	77.4
160-51965-23	23100904-023	82.4	77.0
160-51965-24	23100904-024	87.9	86.0
160-51965-25	23100904-025	84.6	75.5
160-51965-26	23100904-026	90.4	81.9
160-51965-27	23100904-027	96.0	76.6
160-51965-28	23100904-028	82.6	78.5
160-51965-29	23100904-029	89.9	77.8
160-51965-30	23100904-030	76.6	72.1
160-51965-31	23100904-031	88.4	80.4
160-51965-32	23100904-032	47.6	80.4
160-51965-33	23100904-033	88.9	78.1
160-51965-34	23100904-034	89.2	79.3
160-51965-35	23100904-035	81.1	75.1
160-51965-36	23100904-036	94.5	77.4
160-51965-37	23100904-037	82.9	79.6
160-51965-38	23100904-038	97.2	83.4
160-51965-39	23100904-039	88.4	79.6
160-51965-40	23100904-040	91.7	84.5
LCS 160-634471/2-A	Lab Control Sample	93.5	81.5
LCS 160-634473/2-A	Lab Control Sample	93.7	83.7
MB 160-634471/1-A	Method Blank	96.2	81.5
MB 160-634473/1-A	Method Blank	90.2	82.2

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 4, 2023

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G03	UA	E003	Antimony, total	mg/L	03/05/21 - 10/23/23	13	100	All ND - Last	0.001	0.001
G03	UA	E003	Arsenic, total	mg/L	03/05/21 - 10/23/23	13	46	CI around geomean	0.00108	0.00170
G03	UA	E003	Barium, total	mg/L	03/05/21 - 10/23/23	13	0	CI around mean	0.0596	0.254
G03	UA	E003	Beryllium, total	mg/L	03/05/21 - 10/23/23	13	92	CI around median	0.001	0.00110
G03	UA	E003	Boron, total	mg/L	03/05/21 - 10/23/23	13	0	CI around geomean	0.24	0.0531
G03	UA	E003	Cadmium, total	mg/L	03/05/21 - 10/23/23	13	100	All ND - Last	0.001	0.00100
G03	UA	E003	Chloride, total	mg/L	03/05/21 - 10/23/23	13	0	CI around mean	20.5	32.0
G03	UA	E003	Chromium, total	mg/L	03/05/21 - 10/23/23	13	8	CI around mean	0.00279	0.00390
G03	UA	E003	Cobalt, total	mg/L	03/05/21 - 10/23/23	13	31	CI around geomean	0.00133	0.00150
G03	UA	E003	Fluoride, total	mg/L	03/05/21 - 10/23/23	13	0	CI around mean	0.192	0.250
G03	UA	E003	Lead, total	mg/L	03/05/21 - 10/23/23	13	38	CI around geomean	0.0011	0.00150
G03	UA	E003	Lithium, total	mg/L	03/05/21 - 10/23/23	13	69	CI around median	0.003	0.003
G03	UA	E003	Mercury, total	mg/L	03/05/21 - 10/23/23	13	100	All ND - Last	0.0002	0.0002
G03	UA	E003	Molybdenum, total	mg/L	03/05/21 - 10/23/23	13	85	CI around median	0.0015	0.00150
G03	UA	E003	pH (field)	SU	03/05/21 - 10/23/23	13	0	CI around mean	6.3/6.4	6.0/6.8
G03	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/05/21 - 10/23/23	13	0	CI around mean	0.387	1.70
G03	UA	E003	Selenium, total	mg/L	03/05/21 - 10/23/23	13	100	All ND - Last	0.001	0.00420
G03	UA	E003	Sulfate, total	mg/L	03/05/21 - 10/23/23	13	0	CI around mean	69.7	39.0
G03	UA	E003	Thallium, total	mg/L	03/05/21 - 10/23/23	13	100	All ND - Last	0.002	0.00200
G03	UA	E003	Total Dissolved Solids	mg/L	03/05/21 - 10/23/23	13	0	CI around mean	279	334
G05	UA	E003	Antimony, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.001
G05	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.00170
G05	UA	E003	Barium, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	0.162	0.254
G05	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00110
G05	UA	E003	Boron, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	-0.00317	0.0531
G05	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00100
G05	UA	E003	Chloride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	16.9	32.0

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G05	UA	E003	Chromium, total	mg/L	03/04/21 - 10/24/23	13	77	CI around median	0.0015	0.00390
G05	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	0.000824	0.00150
G05	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	0.358	0.250
G05	UA	E003	Lead, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00150
G05	UA	E003	Lithium, total	mg/L	03/04/21 - 10/24/23	13	77	CI around median	0.003	0.003
G05	UA	E003	Mercury, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0002	0.0002
G05	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/24/23	13	8	CI around mean	0.00381	0.00150
G05	UA	E003	pH (field)	SU	03/04/21 - 10/24/23	13	0	CI around mean	6.4/6.5	6.0/6.8
G05	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/24/23	13	0	CI around geomean	0.372	1.70
G05	UA	E003	Selenium, total	mg/L	03/04/21 - 10/24/23	13	31	CB around linear reg	3.89e-05	0.00420
G05	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	82.9	39.0
G05	UA	E003	Thallium, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.002	0.00200
G05	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	352	334
G06	UA	E003	Antimony, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.001
G06	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/24/23	13	62	CI around median	0.001	0.00170
G06	UA	E003	Barium, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.0277	0.254
G06	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00110
G06	UA	E003	Boron, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	3.11	0.0531
G06	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00100
G06	UA	E003	Chloride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around median	21	32.0
G06	UA	E003	Chromium, total	mg/L	03/04/21 - 10/24/23	13	31	CI around mean	0.00148	0.00390
G06	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/24/23	13	62	CI around median	0.001	0.00150
G06	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.256	0.250
G06	UA	E003	Lead, total	mg/L	03/04/21 - 10/24/23	13	85	CI around median	0.001	0.00150
G06	UA	E003	Lithium, total	mg/L	03/04/21 - 10/24/23	13	23	CI around median	0.0035	0.003
G06	UA	E003	Mercury, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0002	0.0002
G06	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0015	0.00150

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G06	UA	E003	pH (field)	SU	03/04/21 - 10/24/23	12	0	CI around mean	6.5/6.6	6.0/6.8
G06	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/24/23	13	0	CI around geomean	0.518	1.70
G06	UA	E003	Selenium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00420
G06	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	180	39.0
G06	UA	E003	Thallium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.002	0.00200
G06	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	501	334
G07	UA	E003	Antimony, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.001
G07	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/24/23	13	77	CI around median	0.001	0.00170
G07	UA	E003	Barium, total	mg/L	03/04/21 - 10/24/23	13	0	CI around geomean	0.0415	0.254
G07	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.00110
G07	UA	E003	Boron, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	4.34	0.0531
G07	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00100
G07	UA	E003	Chloride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	20.3	32.0
G07	UA	E003	Chromium, total	mg/L	03/04/21 - 10/24/23	13	38	CI around geomean	0.00187	0.00390
G07	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/24/23	13	8	CI around mean	0.00123	0.00150
G07	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around median	0.4	0.250
G07	UA	E003	Lead, total	mg/L	03/04/21 - 10/24/23	13	77	CI around median	0.001	0.00150
G07	UA	E003	Lithium, total	mg/L	03/04/21 - 10/24/23	13	62	CI around median	0.003	0.003
G07	UA	E003	Mercury, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0002	0.0002
G07	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.0015	0.00150
G07	UA	E003	pH (field)	SU	03/04/21 - 10/24/23	13	0	CI around mean	6.2/6.6	6.0/6.8
G07	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/24/23	13	0	CB around linear reg	0.744	1.70
G07	UA	E003	Selenium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00420
G07	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	251	39.0
G07	UA	E003	Thallium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.002	0.00200
G07	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	575	334
G08	UA	E003	Antimony, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.001

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G08	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/24/23	13	8	CI around mean	0.00609	0.00170
G08	UA	E003	Barium, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.0486	0.254
G08	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.00110
G08	UA	E003	Boron, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	4.18	0.0531
G08	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00100
G08	UA	E003	Chloride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	14.2	32.0
G08	UA	E003	Chromium, total	mg/L	03/04/21 - 10/24/23	13	15	CI around geomean	0.00174	0.00390
G08	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/24/23	13	8	CI around mean	0.00325	0.00150
G08	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	0.218	0.250
G08	UA	E003	Lead, total	mg/L	03/04/21 - 10/24/23	13	77	CI around median	0.001	0.00150
G08	UA	E003	Lithium, total	mg/L	03/04/21 - 10/24/23	13	85	CI around median	0.003	0.003
G08	UA	E003	Mercury, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0002	0.0002
G08	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/24/23	13	15	CI around median	0.0017	0.00150
G08	UA	E003	pH (field)	SU	03/04/21 - 10/24/23	13	0	CI around median	6.8/7.0	6.0/6.8
G08	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/24/23	13	0	CI around geomean	0.284	1.70
G08	UA	E003	Selenium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00420
G08	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	289	39.0
G08	UA	E003	Thallium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.002	0.00200
G08	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	555	334
G09	UA	E003	Antimony, total	mg/L	03/04/21 - 10/25/23	13	92	CI around median	0.001	0.001
G09	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/25/23	13	15	CI around mean	0.00238	0.00170
G09	UA	E003	Barium, total	mg/L	03/04/21 - 10/25/23	13	0	CB around linear reg	0.000628	0.254
G09	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/25/23	13	77	CI around median	0.001	0.00110
G09	UA	E003	Boron, total	mg/L	03/04/21 - 10/25/23	13	0	CI around median	3.19	0.0531
G09	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/25/23	13	100	All ND - Last	0.001	0.00100
G09	UA	E003	Chloride, total	mg/L	03/04/21 - 10/25/23	13	0	CB around linear reg	14	32.0
G09	UA	E003	Chromium, total	mg/L	03/04/21 - 10/25/23	13	23	CI around geomean	0.00154	0.00390

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G09	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/25/23	13	0	CB around linear reg	-0.00147	0.00150
G09	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/25/23	13	0	CI around mean	0.282	0.250
G09	UA	E003	Lead, total	mg/L	03/04/21 - 10/25/23	13	69	CI around median	0.001	0.00150
G09	UA	E003	Lithium, total	mg/L	03/04/21 - 10/25/23	13	15	CI around median	0.0034	0.003
G09	UA	E003	Mercury, total	mg/L	03/04/21 - 10/25/23	13	100	All ND - Last	0.0002	0.0002
G09	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/25/23	13	100	All ND - Last	0.0015	0.00150
G09	UA	E003	pH (field)	SU	03/04/21 - 10/25/23	13	0	CI around median	6.1/6.4	6.0/6.8
G09	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/25/23	13	0	CI around mean	0.257	1.70
G09	UA	E003	Selenium, total	mg/L	03/04/21 - 10/25/23	13	92	CI around median	0.001	0.00420
G09	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/25/23	13	0	CI around mean	258	39.0
G09	UA	E003	Thallium, total	mg/L	03/04/21 - 10/25/23	13	100	All ND - Last	0.002	0.00200
G09	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/25/23	13	0	CB around linear reg	447	334
G10	UA	E003	Antimony, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.001
G10	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/24/23	13	31	CI around geomean	0.00118	0.00170
G10	UA	E003	Barium, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.0388	0.254
G10	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.00110
G10	UA	E003	Boron, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	2.17	0.0531
G10	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00100
G10	UA	E003	Chloride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	25.7	32.0
G10	UA	E003	Chromium, total	mg/L	03/04/21 - 10/24/23	13	31	CI around geomean	0.00156	0.00390
G10	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	-0.0014	0.00150
G10	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.276	0.250
G10	UA	E003	Lead, total	mg/L	03/04/21 - 10/24/23	13	85	CI around median	0.001	0.00150
G10	UA	E003	Lithium, total	mg/L	03/04/21 - 10/24/23	13	38	CI around median	0.003	0.003
G10	UA	E003	Mercury, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0002	0.0002
G10	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/24/23	13	62	CI around median	0.0015	0.00150
G10	UA	E003	pH (field)	SU	03/04/21 - 10/24/23	13	0	CI around mean	6.5/6.7	6.0/6.8

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G10	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/24/23	13	0	CI around mean	0.561	1.70
G10	UA	E003	Selenium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00420
G10	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	372	39.0
G10	UA	E003	Thallium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.002	0.00200
G10	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	747	334
G11	UA	E003	Antimony, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.001
G11	UA	E003	Arsenic, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00170
G11	UA	E003	Barium, total	mg/L	03/04/21 - 10/24/23	13	0	CI around geomean	0.0135	0.254
G11	UA	E003	Beryllium, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.00110
G11	UA	E003	Boron, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.287	0.0531
G11	UA	E003	Cadmium, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.001	0.00100
G11	UA	E003	Chloride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	32.4	32.0
G11	UA	E003	Chromium, total	mg/L	03/04/21 - 10/24/23	13	85	CI around median	0.0015	0.00390
G11	UA	E003	Cobalt, total	mg/L	03/04/21 - 10/24/23	13	38	CI around geomean	0.000934	0.00150
G11	UA	E003	Fluoride, total	mg/L	03/04/21 - 10/24/23	13	0	CI around mean	0.167	0.250
G11	UA	E003	Lead, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.001	0.00150
G11	UA	E003	Lithium, total	mg/L	03/04/21 - 10/24/23	13	15	CI around median	0.0035	0.003
G11	UA	E003	Mercury, total	mg/L	03/04/21 - 10/24/23	13	100	All ND - Last	0.0002	0.0002
G11	UA	E003	Molybdenum, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.0015	0.00150
G11	UA	E003	pH (field)	SU	03/04/21 - 10/24/23	13	0	CI around median	5.8/5.9	6.0/6.8
G11	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 10/24/23	13	0	CI around mean	0.238	1.70
G11	UA	E003	Selenium, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	-0.0023	0.00420
G11	UA	E003	Sulfate, total	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	20.9	39.0
G11	UA	E003	Thallium, total	mg/L	03/04/21 - 10/24/23	13	92	CI around median	0.002	0.00200
G11	UA	E003	Total Dissolved Solids	mg/L	03/04/21 - 10/24/23	13	0	CB around linear reg	237	334
G51D	UA	E003	Antimony, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.001
G51D	UA	E003	Arsenic, total	mg/L	12/03/15 - 10/25/23	23	100	All ND - Last	0.001	0.00170

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G51D	UA	E003	Barium, total	mg/L	12/03/15 - 10/25/23	23	0	CB around T-S line	0.00372	0.254
G51D	UA	E003	Beryllium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.00110
G51D	UA	E003	Boron, total	mg/L	12/03/15 - 10/25/23	24	0	CB around T-S line	0.509	0.0531
G51D	UA	E003	Cadmium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.00100
G51D	UA	E003	Chloride, total	mg/L	12/03/15 - 10/25/23	24	0	CB around T-S line	2.77	32.0
G51D	UA	E003	Chromium, total	mg/L	12/03/15 - 10/25/23	23	74	CB around T-S line	0.00149	0.00390
G51D	UA	E003	Cobalt, total	mg/L	12/03/15 - 10/25/23	23	17	CB around T-S line	-0.0109	0.00150
G51D	UA	E003	Fluoride, total	mg/L	12/03/15 - 10/25/23	24	83	CI around median	0.1	0.250
G51D	UA	E003	Lead, total	mg/L	12/03/15 - 10/25/23	23	100	All ND - Last	0.001	0.00150
G51D	UA	E003	Lithium, total	mg/L	12/03/15 - 10/25/23	23	4	CB around T-S line	0.00554	0.003
G51D	UA	E003	Mercury, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.0002	0.0002
G51D	UA	E003	Molybdenum, total	mg/L	12/03/15 - 10/25/23	19	95	CB around T-S line	0.001	0.00150
G51D	UA	E003	pH (field)	SU	12/03/15 - 10/25/23	24	0	CB around T-S line	5.1/5.4	6.0/6.8
G51D	UA	E003	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 10/25/23	23	0	CI around mean	0.469	1.70
G51D	UA	E003	Selenium, total	mg/L	12/03/15 - 10/25/23	23	4	CB around T-S line	0.00412	0.00420
G51D	UA	E003	Sulfate, total	mg/L	12/03/15 - 10/25/23	24	0	CI around median	121	39.0
G51D	UA	E003	Thallium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.002	0.00200
G51D	UA	E003	Total Dissolved Solids	mg/L	12/03/15 - 10/25/23	24	0	CB around linear reg	279	334
G52D	UA	E003	Antimony, total	mg/L	12/03/15 - 10/24/23	17	100	All ND - Last	0.001	0.001
G52D	UA	E003	Arsenic, total	mg/L	12/03/15 - 10/24/23	22	9	CB around linear reg	-0.000569	0.00170
G52D	UA	E003	Barium, total	mg/L	12/03/15 - 10/24/23	22	0	CB around linear reg	0.134	0.254
G52D	UA	E003	Beryllium, total	mg/L	12/03/15 - 10/24/23	17	100	All ND - Last	0.001	0.00110
G52D	UA	E003	Boron, total	mg/L	12/03/15 - 10/24/23	23	91	CI around median	0.025	0.0531
G52D	UA	E003	Cadmium, total	mg/L	12/03/15 - 10/24/23	17	100	All ND - Last	0.001	0.00100
G52D	UA	E003	Chloride, total	mg/L	12/03/15 - 10/24/23	23	0	CB around linear reg	7.24	32.0
G52D	UA	E003	Chromium, total	mg/L	12/03/15 - 10/24/23	22	100	All ND - Last	0.0015	0.00390
G52D	UA	E003	Cobalt, total	mg/L	12/03/15 - 10/24/23	22	0	CI around mean	0.0029	0.00150

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G52D	UA	E003	Fluoride, total	mg/L	12/03/15 - 10/24/23	23	0	CI around median	0.24	0.250
G52D	UA	E003	Lead, total	mg/L	12/03/15 - 10/24/23	22	100	All ND - Last	0.001	0.00150
G52D	UA	E003	Lithium, total	mg/L	12/03/15 - 10/24/23	22	46	CI around geomean	0.0025	0.003
G52D	UA	E003	Mercury, total	mg/L	12/03/15 - 10/24/23	17	100	All ND - Last	0.0002	0.0002
G52D	UA	E003	Molybdenum, total	mg/L	12/03/15 - 10/24/23	18	78	CI around median	0.0011	0.00150
G52D	UA	E003	pH (field)	SU	12/03/15 - 10/24/23	23	0	CI around mean	6.2/6.4	6.0/6.8
G52D	UA	E003	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 10/24/23	22	0	CI around mean	0.849	1.70
G52D	UA	E003	Selenium, total	mg/L	12/03/15 - 10/24/23	22	96	CI around median	0.001	0.00420
G52D	UA	E003	Sulfate, total	mg/L	12/03/15 - 10/24/23	23	0	CB around linear reg	53.8	39.0
G52D	UA	E003	Thallium, total	mg/L	12/03/15 - 10/24/23	17	100	All ND - Last	0.002	0.00200
G52D	UA	E003	Total Dissolved Solids	mg/L	12/03/15 - 10/24/23	23	0	CB around linear reg	277	334
G53D	UA	E003	Antimony, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.001
G53D	UA	E003	Arsenic, total	mg/L	12/03/15 - 10/25/23	23	100	All ND - Last	0.001	0.00170
G53D	UA	E003	Barium, total	mg/L	12/03/15 - 10/25/23	23	0	CB around T-S line	-0.0271	0.254
G53D	UA	E003	Beryllium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.00110
G53D	UA	E003	Boron, total	mg/L	12/03/15 - 10/25/23	24	0	CI around median	0.334	0.0531
G53D	UA	E003	Cadmium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.00100
G53D	UA	E003	Chloride, total	mg/L	12/03/15 - 10/25/23	24	0	CI around median	18	32.0
G53D	UA	E003	Chromium, total	mg/L	12/03/15 - 10/25/23	23	87	CI around median	0.001	0.00390
G53D	UA	E003	Cobalt, total	mg/L	12/03/15 - 10/25/23	23	17	CI around median	0.0012	0.00150
G53D	UA	E003	Fluoride, total	mg/L	12/03/15 - 10/25/23	24	0	CI around mean	0.644	0.250
G53D	UA	E003	Lead, total	mg/L	12/03/15 - 10/25/23	23	100	All ND - Last	0.001	0.00150
G53D	UA	E003	Lithium, total	mg/L	12/03/15 - 10/25/23	23	56	CB around T-S line	0.00267	0.003
G53D	UA	E003	Mercury, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.0002	0.0002
G53D	UA	E003	Molybdenum, total	mg/L	12/03/15 - 10/25/23	19	90	CB around T-S line	0.001	0.00150
G53D	UA	E003	pH (field)	SU	12/03/15 - 10/25/23	24	0	CB around T-S line	6.3/6.5	6.0/6.8
G53D	UA	E003	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 10/25/23	23	0	CI around mean	0.363	1.70

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G53D	UA	E003	Selenium, total	mg/L	12/03/15 - 10/25/23	23	100	All ND - Last	0.001	0.00420
G53D	UA	E003	Sulfate, total	mg/L	12/03/15 - 10/25/23	24	0	CB around T-S line	44.8	39.0
G53D	UA	E003	Thallium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.002	0.00200
G53D	UA	E003	Total Dissolved Solids	mg/L	12/03/15 - 10/25/23	24	0	CB around T-S line	258	334
G54D	UA	E003	Antimony, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.001
G54D	UA	E003	Arsenic, total	mg/L	12/03/15 - 10/25/23	23	48	CB around T-S line	-0.000139	0.00170
G54D	UA	E003	Barium, total	mg/L	12/03/15 - 10/25/23	23	0	CB around T-S line	0.0624	0.254
G54D	UA	E003	Beryllium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.00110
G54D	UA	E003	Boron, total	mg/L	12/03/15 - 10/25/23	24	0	CI around mean	0.46	0.0531
G54D	UA	E003	Cadmium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.001	0.00100
G54D	UA	E003	Chloride, total	mg/L	12/03/15 - 10/25/23	24	4	CB around T-S line	15.5	32.0
G54D	UA	E003	Chromium, total	mg/L	12/03/15 - 10/25/23	23	65	CI around median	0.0015	0.00390
G54D	UA	E003	Cobalt, total	mg/L	12/03/15 - 10/25/23	23	0	CB around linear reg	0.00362	0.00150
G54D	UA	E003	Fluoride, total	mg/L	12/03/15 - 10/25/23	24	0	CB around linear reg	0.262	0.250
G54D	UA	E003	Lead, total	mg/L	12/03/15 - 10/25/23	23	96	CI around median	0.001	0.00150
G54D	UA	E003	Lithium, total	mg/L	12/03/15 - 10/25/23	23	17	CB around linear reg	0.00186	0.003
G54D	UA	E003	Mercury, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.0002	0.0002
G54D	UA	E003	Molybdenum, total	mg/L	12/03/15 - 10/25/23	19	95	CB around T-S line	0.001	0.00150
G54D	UA	E003	pH (field)	SU	12/03/15 - 10/25/23	24	0	CI around mean	6.6/6.8	6.0/6.8
G54D	UA	E003	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 10/25/23	23	0	CI around geomean	0.513	1.70
G54D	UA	E003	Selenium, total	mg/L	12/03/15 - 10/25/23	23	100	All ND - Last	0.001	0.00420
G54D	UA	E003	Sulfate, total	mg/L	12/03/15 - 10/25/23	24	0	CB around linear reg	176	39.0
G54D	UA	E003	Thallium, total	mg/L	12/03/15 - 10/25/23	18	100	All ND - Last	0.002	0.00200
G54D	UA	E003	Total Dissolved Solids	mg/L	12/03/15 - 10/25/23	24	0	CI around mean	492	334

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Notes:
Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value
HSU = hydrostratigraphic 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 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
For pH, the values presented are the lower / upper limits of the background determination