Luminant

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

January 15, 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 3, 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 3, 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 3, 2023
EAST ASH POND, JOPPA POWER PLANT, JOPPA, ILLINOIS

January 15, 2024

Samples were collected on September 25 through 27, 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 November 16, 2023.

The monitoring well locations are included in **Figure 1**. **Attachment A** summarizes the groundwater elevation data for the Quarter 3, 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 3, 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 3, 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 3, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G01D	Background	E002	09/25/2023	Antimony, total	0.0004 U	mg/L
G01D	Background	E002	09/25/2023	Arsenic, total	0.0007 J	mg/L
G01D	Background	E002	09/25/2023	Barium, total	0.193	mg/L
G01D	Background	E002	09/25/2023	Beryllium, total	0.0002 U	mg/L
G01D	Background	E002	09/25/2023	Boron, total	0.03 UJ	mg/L
G01D	Background	E002	09/25/2023	Cadmium, total	0.0002 U	mg/L
G01D	Background	E002	09/25/2023	Calcium, total	31.1	mg/L
G01D	Background	E002	09/25/2023	Chloride, total	11.0	mg/L
G01D	Background	E002	09/25/2023	Chromium, total	0.00380	mg/L
G01D	Background	E002	09/25/2023	Cobalt, total	0.0008 J	mg/L
G01D	Background	E002	09/25/2023	Dissolved Oxygen	0.650	mg/L
G01D	Background	E002	09/25/2023	Fluoride, total	0.210	mg/L
G01D	Background	E002	09/25/2023	Lead, total	0.0008 J	mg/L
G01D	Background	E002	09/25/2023	Lithium, total	0.0015 U	mg/L
G01D	Background	E002	09/25/2023	Mercury, total	0.00006 U	mg/L
G01D	Background	E002	09/25/2023	Molybdenum, total	0.0007 J	mg/L
G01D	Background	E002	09/25/2023	Oxidation Reduction Potential	30.0	mV
G01D	Background	E002	09/25/2023	pH (field)	6.5	SU
G01D	Background	E002	09/25/2023	Radium 226 + Radium 228, total	3.77	pCi/L
G01D	Background	E002	09/25/2023	Selenium, total	0.00160	mg/L
G01D	Background	E002	09/25/2023	Specific Conductance @ 25C (field)	533	micromhos/cm
G01D	Background	E002	09/25/2023	Sulfate, total	28.0	mg/L
G01D	Background	E002	09/25/2023	Temperature	18.1	degrees C
G01D	Background	E002	09/25/2023	Thallium, total	0.001 U	mg/L
G01D	Background	E002	09/25/2023	Total Dissolved Solids	350	mg/L
G01D	Background	E002	09/25/2023	Turbidity, field	9.90	NTU
G02D	Background	E002	09/25/2023	Antimony, total	0.0004 U	mg/L
G02D	Background	E002	09/25/2023	Arsenic, total	0.0004 U	mg/L
G02D	Background	E002	09/25/2023	Barium, total	0.229	mg/L
G02D	Background	E002	09/25/2023	Beryllium, total	0.0002 U	mg/L
G02D	Background	E002	09/25/2023	Boron, total	0.0401	mg/L
G02D	Background	E002	09/25/2023	Cadmium, total	0.0002 U	mg/L
G02D	Background	E002	09/25/2023	Calcium, total	33.7	mg/L
G02D	Background	E002	09/25/2023	Chloride, total	21.0	mg/L
G02D	Background	E002	09/25/2023	Chromium, total	0.001 J	mg/L
G02D	Background	E002	09/25/2023	Cobalt, total	0.0004 J	mg/L
G02D	Background	E002	09/25/2023	Dissolved Oxygen	1.51	mg/L
G02D	Background	E002	09/25/2023	Fluoride, total	0.210	mg/L
G02D	Background	E002	09/25/2023	Lead, total	0.00190	mg/L
G02D	Background	E002	09/25/2023	Lithium, total	0.0015 U	mg/L
G02D	Background	E002	09/25/2023	Mercury, total	0.00006 U	mg/L
G02D	Background	E002	09/25/2023	Molybdenum, total	0.0006 U	mg/L
G02D	Background	E002	09/25/2023	Oxidation Reduction Potential	68.0	mV
G02D	Background	E002	09/25/2023	pH (field)	6.4	SU
G02D	Background	E002	09/25/2023	Radium 226 + Radium 228, total	2.5	pCi/L
G02D	Background	E002	09/25/2023	Selenium, total	0.00120	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G02D	Background	E002	09/25/2023	Specific Conductance @ 25C (field)	412	micromhos/cm
G02D	Background	E002	09/25/2023	Sulfate, total	15.0	mg/L
G02D	Background	E002	09/25/2023	Temperature	16.1	degrees C
G02D	Background	E002	09/25/2023	Thallium, total	0.001 U	mg/L
G02D	Background	E002	09/25/2023	Total Dissolved Solids	226	mg/L
G02D	Background	E002	09/25/2023	Turbidity, field	12.0	NTU
G03	Compliance	E002	09/26/2023	Antimony, total	0.0004 U	mg/L
G03	Compliance	E002	09/26/2023	Arsenic, total	0.0005 J	mg/L
G03	Compliance	E002	09/26/2023	Barium, total	0.0748	mg/L
G03	Compliance	E002	09/26/2023	Beryllium, total	0.0002 U	mg/L
G03	Compliance	E002	09/26/2023	Boron, total	0.267	mg/L
G03	Compliance	E002	09/26/2023	Cadmium, total	0.0002 U	mg/L
G03	Compliance	E002	09/26/2023	Calcium, total	41.8	mg/L
G03	Compliance	E002	09/26/2023	Chloride, total	19.0	mg/L
G03	Compliance	E002	09/26/2023	Chromium, total	0.00260	mg/L
G03	Compliance	E002	09/26/2023	Cobalt, total	0.00140	mg/L
G03	Compliance	E002	09/26/2023	Dissolved Oxygen	3.89	mg/L
G03	Compliance	E002	09/26/2023	Fluoride, total	0.210	mg/L
G03	Compliance	E002	09/26/2023	Lead, total	0.0006 U	mg/L
G03	Compliance	E002	09/26/2023	Lithium, total	0.0018 J	mg/L
G03	Compliance	E002	09/26/2023	Mercury, total	0.00006 U	mg/L
G03	Compliance	E002	09/26/2023	Molybdenum, total	0.0006 U	mg/L
G03	Compliance	E002	09/26/2023	Oxidation Reduction Potential	40.0	mV
G03	Compliance	E002	09/26/2023	pH (field)	6.4	SU
G03	Compliance	E002	09/26/2023	Radium 226 + Radium 228, total	2.24	pCi/L
G03	Compliance	E002	09/26/2023	Selenium, total	0.0006 U	mg/L
G03	Compliance	E002	09/26/2023	Specific Conductance @ 25C (field)	445	micromhos/cm
G03	Compliance	E002	09/26/2023	Sulfate, total	67.0	mg/L
G03	Compliance	E002	09/26/2023	Temperature	17.8	degrees C
G03	Compliance	E002	09/26/2023	Thallium, total	0.001 U	mg/L
G03	Compliance	E002	09/26/2023	Total Dissolved Solids	295	mg/L
G03	Compliance	E002	09/26/2023	Turbidity, field	35.0	NTU
G05	Compliance	E002	09/27/2023	Antimony, total	0.0004 U	mg/L
G05	Compliance	E002	09/27/2023	Arsenic, total	0.00120	mg/L
G05	Compliance	E002	09/27/2023	Barium, total	0.169	mg/L
G05	Compliance	E002	09/27/2023	Beryllium, total	0.0002 U	mg/L
G05	Compliance	E002	09/27/2023	Boron, total	0.0436	mg/L
G05	Compliance	E002	09/27/2023	Cadmium, total	0.0002 U	mg/L
G05	Compliance	E002	09/27/2023	Calcium, total	52.2	mg/L
G05	Compliance	E002	09/27/2023	Chloride, total	20.0	mg/L
G05	Compliance	E002	09/27/2023	Chromium, total	0.00230	mg/L
G05	Compliance	E002	09/27/2023	Cobalt, total	0.00230	mg/L
G05	Compliance	E002	09/27/2023	Dissolved Oxygen	0.940	mg/L
G05	Compliance	E002	09/27/2023	Fluoride, total	0.410	mg/L
G05	Compliance	E002	09/27/2023	Lead, total	0.0006 U	mg/L
G05	Compliance	E002	09/27/2023	Lithium, total	0.00300 J	mg/L

TABLE 1.
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845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G05	Compliance	E002	09/27/2023	Mercury, total	0.00006 U	mg/L
G05	Compliance	E002	09/27/2023	Molybdenum, total	0.00460	mg/L
G05	Compliance	E002	09/27/2023	Oxidation Reduction Potential	-17.0	mV
G05	Compliance	E002	09/27/2023	pH (field)	6.4	SU
G05	Compliance	E002	09/27/2023	Radium 226 + Radium 228, total	6.29	pCi/L
G05	Compliance	E002	09/27/2023	Selenium, total	0.00110	mg/L
G05	Compliance	E002	09/27/2023	Specific Conductance @ 25C (field)	565	micromhos/cm
G05	Compliance	E002	09/27/2023	Sulfate, total	82.0	mg/L
G05	Compliance	E002	09/27/2023	Temperature	17.4	degrees C
G05	Compliance	E002	09/27/2023	Thallium, total	0.001 U	mg/L
G05	Compliance	E002	09/27/2023	Total Dissolved Solids	360	mg/L
G05	Compliance	E002	09/27/2023	Turbidity, field	20.0	NTU
G06	Compliance	E002	09/27/2023	Antimony, total	0.0004 U	mg/L
G06	Compliance	E002	09/27/2023	Arsenic, total	0.00100 J	mg/L
G06	Compliance	E002	09/27/2023	Barium, total	0.0251	mg/L
G06	Compliance	E002	09/27/2023	Beryllium, total	0.0002 U	mg/L
G06	Compliance	E002	09/27/2023	Boron, total	3.29	mg/L
G06	Compliance	E002	09/27/2023	Cadmium, total	0.0002 U	mg/L
G06	Compliance	E002	09/27/2023	Calcium, total	84.9	mg/L
G06	Compliance	E002	09/27/2023	Chloride, total	21.0	mg/L
G06	Compliance	E002	09/27/2023	Chromium, total	0.00280	mg/L
G06	Compliance	E002	09/27/2023	Cobalt, total	0.0008 J	mg/L
G06	Compliance	E002	09/27/2023	Dissolved Oxygen	0.880	mg/L
G06	Compliance	E002	09/27/2023	Fluoride, total	0.270	mg/L
G06	Compliance	E002	09/27/2023	Lead, total	0.0006 U	mg/L
G06	Compliance	E002	09/27/2023	Lithium, total	0.00350	mg/L
G06	Compliance	E002	09/27/2023	Mercury, total	0.00012 J	mg/L
G06	Compliance	E002	09/27/2023	Molybdenum, total	0.0006 U	mg/L
G06	Compliance	E002	09/27/2023	Oxidation Reduction Potential	14.0	mV
G06	Compliance	E002	09/27/2023	pH (field)	6.6	SU
G06	Compliance	E002	09/27/2023	Radium 226 + Radium 228, total	3.04	pCi/L
G06	Compliance	E002	09/27/2023	Selenium, total	0.0006 U	mg/L
G06	Compliance	E002	09/27/2023	Specific Conductance @ 25C (field)	716	micromhos/cm
G06	Compliance	E002	09/27/2023	Sulfate, total	187	mg/L
G06	Compliance	E002	09/27/2023	Temperature	16.2	degrees C
G06	Compliance	E002	09/27/2023	Thallium, total	0.001 U	mg/L
G06	Compliance	E002	09/27/2023	Total Dissolved Solids	486	mg/L
G06	Compliance	E002	09/27/2023	Turbidity, field	43.0	NTU
G07	Compliance	E002	09/27/2023	Antimony, total	0.0004 U	mg/L
G07	Compliance	E002	09/27/2023	Arsenic, total	0.0007 J	mg/L
G07	Compliance	E002	09/27/2023	Barium, total	0.0366	mg/L
G07	Compliance	E002	09/27/2023	Beryllium, total	0.0002 U	mg/L
G07	Compliance	E002	09/27/2023	Boron, total	5.80	mg/L
G07	Compliance	E002	09/27/2023	Cadmium, total	0.0002 U	mg/L
G07	Compliance	E002	09/27/2023	Calcium, total	97.1	mg/L
G07	Compliance	E002	09/27/2023	Chloride, total	21.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G07	Compliance	E002	09/27/2023	Chromium, total	0.00270	mg/L
G07	Compliance	E002	09/27/2023	Cobalt, total	0.00110	mg/L
G07	Compliance	E002	09/27/2023	Dissolved Oxygen	0.720	mg/L
G07	Compliance	E002	09/27/2023	Fluoride, total	0.430	mg/L
G07	Compliance	E002	09/27/2023	Lead, total	0.0006 U	mg/L
G07	Compliance	E002	09/27/2023	Lithium, total	0.0025 J	mg/L
G07	Compliance	E002	09/27/2023	Mercury, total	0.00006 J	mg/L
G07	Compliance	E002	09/27/2023	Molybdenum, total	0.0007 J	mg/L
G07	Compliance	E002	09/27/2023	Oxidation Reduction Potential	31.0	mV
G07	Compliance	E002	09/27/2023	pH (field)	6.4	SU
G07	Compliance	E002	09/27/2023	Radium 226 + Radium 228, total	2.53	pCi/L
G07	Compliance	E002	09/27/2023	Selenium, total	0.0006 U	mg/L
G07	Compliance	E002	09/27/2023	Specific Conductance @ 25C (field)	847	micromhos/cm
G07	Compliance	E002	09/27/2023	Sulfate, total	268	mg/L
G07	Compliance	E002	09/27/2023	Temperature	16.0	degrees C
G07	Compliance	E002	09/27/2023	Thallium, total	0.001 U	mg/L
G07	Compliance	E002	09/27/2023	Total Dissolved Solids	612	mg/L
G07	Compliance	E002	09/27/2023	Turbidity, field	13.0	NTU
G08	Compliance	E002	09/26/2023	Antimony, total	0.0004 U	mg/L
G08	Compliance	E002	09/26/2023	Arsenic, total	0.00860	mg/L
G08	Compliance	E002	09/26/2023	Barium, total	0.0333	mg/L
G08	Compliance	E002	09/26/2023	Beryllium, total	0.0002 U	mg/L
G08	Compliance	E002	09/26/2023	Boron, total	6.30	mg/L
G08	Compliance	E002	09/26/2023	Cadmium, total	0.0002 U	mg/L
G08	Compliance	E002	09/26/2023	Calcium, total	132	mg/L
G08	Compliance	E002	09/26/2023	Chloride, total	14.0	mg/L
G08	Compliance	E002	09/26/2023	Chromium, total	0.00200	mg/L
G08	Compliance	E002	09/26/2023	Cobalt, total	0.00370	mg/L
G08	Compliance	E002	09/26/2023	Dissolved Oxygen	0.650	mg/L
G08	Compliance	E002	09/26/2023	Fluoride, total	0.310	mg/L
G08	Compliance	E002	09/26/2023	Lead, total	0.0006 U	mg/L
G08	Compliance	E002	09/26/2023	Lithium, total	0.0021 J	mg/L
G08	Compliance	E002	09/26/2023	Mercury, total	0.00006 U	mg/L
G08	Compliance	E002	09/26/2023	Molybdenum, total	0.00230	mg/L
G08	Compliance	E002	09/26/2023	Oxidation Reduction Potential	-92.0	mV
G08	Compliance	E002	09/26/2023	pH (field)	7.0	SU
G08	Compliance	E002	09/26/2023	Radium 226 + Radium 228, total	1.67	pCi/L
G08	Compliance	E002	09/26/2023	Selenium, total	0.0006 U	mg/L
G08	Compliance	E002	09/26/2023	Specific Conductance @ 25C (field)	912	micromhos/cm
G08	Compliance	E002	09/26/2023	Sulfate, total	320	mg/L
G08	Compliance	E002	09/26/2023	Temperature	17.3	degrees C
G08	Compliance	E002	09/26/2023	Thallium, total	0.001 U	mg/L
G08	Compliance	E002	09/26/2023	Total Dissolved Solids	680	mg/L
G08	Compliance	E002	09/26/2023	Turbidity, field	40.0	NTU
G09	Compliance	E002	09/26/2023	Antimony, total	0.0004 U	mg/L
G09	Compliance	E002	09/26/2023	Arsenic, total	0.00430	mg/L

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845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G09	Compliance	E002	09/26/2023	Barium, total	0.0271	mg/L
G09	Compliance	E002	09/26/2023	Beryllium, total	0.0003 J	mg/L
G09	Compliance	E002	09/26/2023	Boron, total	4.57	mg/L
G09	Compliance	E002	09/26/2023	Cadmium, total	0.0002 U	mg/L
G09	Compliance	E002	09/26/2023	Calcium, total	64.8	mg/L
G09	Compliance	E002	09/26/2023	Chloride, total	17.0	mg/L
G09	Compliance	E002	09/26/2023	Chromium, total	0.00210	mg/L
G09	Compliance	E002	09/26/2023	Cobalt, total	0.00500	mg/L
G09	Compliance	E002	09/26/2023	Dissolved Oxygen	0.810	mg/L
G09	Compliance	E002	09/26/2023	Fluoride, total	0.310	mg/L
G09	Compliance	E002	09/26/2023	Lead, total	0.0006 U	mg/L
G09	Compliance	E002	09/26/2023	Lithium, total	0.00320	mg/L
G09	Compliance	E002	09/26/2023	Mercury, total	0.00006 J	mg/L
G09	Compliance	E002	09/26/2023	Molybdenum, total	0.0006 U	mg/L
G09	Compliance	E002	09/26/2023	Oxidation Reduction Potential	33.0	mV
G09	Compliance	E002	09/26/2023	pH (field)	6.2	SU
G09	Compliance	E002	09/26/2023	Radium 226 + Radium 228, total	2.14	pCi/L
G09	Compliance	E002	09/26/2023	Selenium, total	0.0006 U	mg/L
G09	Compliance	E002	09/26/2023	Specific Conductance @ 25C (field)	789	micromhos/cm
G09	Compliance	E002	09/26/2023	Sulfate, total	229	mg/L
G09	Compliance	E002	09/26/2023	Temperature	17.7	degrees C
G09	Compliance	E002	09/26/2023	Thallium, total	0.001 U	mg/L
G09	Compliance	E002	09/26/2023	Total Dissolved Solids	500	mg/L
G09	Compliance	E002	09/26/2023	Turbidity, field	17.0	NTU
G10	Compliance	E002	09/26/2023	Antimony, total	0.0004 U	mg/L
G10	Compliance	E002	09/26/2023	Arsenic, total	0.00370	mg/L
G10	Compliance	E002	09/26/2023	Barium, total	0.0336	mg/L
G10	Compliance	E002	09/26/2023	Beryllium, total	0.0002 U	mg/L
G10	Compliance	E002	09/26/2023	Boron, total	3.41	mg/L
G10	Compliance	E002	09/26/2023	Cadmium, total	0.0002 U	mg/L
G10	Compliance	E002	09/26/2023	Calcium, total	120	mg/L
G10	Compliance	E002	09/26/2023	Chloride, total	24.0	mg/L
G10	Compliance	E002	09/26/2023	Chromium, total	0.001 J	mg/L
G10	Compliance	E002	09/26/2023	Cobalt, total	0.00210	mg/L
G10	Compliance	E002	09/26/2023	Dissolved Oxygen	0.470	mg/L
G10	Compliance	E002	09/26/2023	Fluoride, total	0.370	mg/L
G10	Compliance	E002	09/26/2023	Lead, total	0.0006 U	mg/L
G10	Compliance	E002	09/26/2023	Lithium, total	0.00410	mg/L
G10	Compliance	E002	09/26/2023	Mercury, total	0.00007 J	mg/L
G10	Compliance	E002	09/26/2023	Molybdenum, total	0.00160	mg/L
G10	Compliance	E002	09/26/2023	Oxidation Reduction Potential	65.0	mV
G10	Compliance	E002	09/26/2023	pH (field)	6.7	SU
G10	Compliance	E002	09/26/2023	Radium 226 + Radium 228, total	1.32	pCi/L
G10	Compliance	E002	09/26/2023	Selenium, total	0.0006 U	mg/L
G10	Compliance	E002	09/26/2023	Specific Conductance @ 25C (field)	1,250	micromhos/cm
G10	Compliance	E002	09/26/2023	Sulfate, total	356	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G10	Compliance	E002	09/26/2023	Temperature	17.5	degrees C
G10	Compliance	E002	09/26/2023	Thallium, total	0.001 U	mg/L
G10	Compliance	E002	09/26/2023	Total Dissolved Solids	705	mg/L
G10	Compliance	E002	09/26/2023	Turbidity, field	16.0	NTU
G11	Compliance	E002	09/26/2023	Antimony, total	0.0004 U	mg/L
G11	Compliance	E002	09/26/2023	Arsenic, total	0.0004 U	mg/L
G11	Compliance	E002	09/26/2023	Barium, total	0.0231	mg/L
G11	Compliance	E002	09/26/2023	Beryllium, total	0.0002 U	mg/L
G11	Compliance	E002	09/26/2023	Boron, total	0.308	mg/L
G11	Compliance	E002	09/26/2023	Cadmium, total	0.0002 U	mg/L
G11	Compliance	E002	09/26/2023	Calcium, total	59.9	mg/L
G11	Compliance	E002	09/26/2023	Chloride, total	29.0	mg/L
G11	Compliance	E002	09/26/2023	Chromium, total	0.0007 J	mg/L
G11	Compliance	E002	09/26/2023	Cobalt, total	0.0006 J	mg/L
G11	Compliance	E002	09/26/2023	Dissolved Oxygen	0.760	mg/L
G11	Compliance	E002	09/26/2023	Fluoride, total	0.160	mg/L
G11	Compliance	E002	09/26/2023	Lead, total	0.00270	mg/L
G11	Compliance	E002	09/26/2023	Lithium, total	0.00350	mg/L
G11	Compliance	E002	09/26/2023	Mercury, total	0.00006 U	mg/L
G11	Compliance	E002	09/26/2023	Molybdenum, total	0.0007 J	mg/L
G11	Compliance	E002	09/26/2023	Oxidation Reduction Potential	98.0	mV
G11	Compliance	E002	09/26/2023	pH (field)	6.0	SU
G11	Compliance	E002	09/26/2023	Radium 226 + Radium 228, total	2.44	pCi/L
G11	Compliance	E002	09/26/2023	Selenium, total	0.00190	mg/L
G11	Compliance	E002	09/26/2023	Specific Conductance @ 25C (field)	748	micromhos/cm
G11	Compliance	E002	09/26/2023	Sulfate, total	192	mg/L
G11	Compliance	E002	09/26/2023	Temperature	17.8	degrees C
G11	Compliance	E002	09/26/2023	Thallium, total	0.001 U	mg/L
G11	Compliance	E002	09/26/2023	Total Dissolved Solids	428	mg/L
G11	Compliance	E002	09/26/2023	Turbidity, field	8.90	NTU
G51D	Compliance	E002	09/25/2023	Antimony, total	0.0004 U	mg/L
G51D	Compliance	E002	09/25/2023	Arsenic, total	0.0004 U	mg/L
G51D	Compliance	E002	09/25/2023	Barium, total	0.0349	mg/L
G51D	Compliance	E002	09/25/2023	Beryllium, total	0.0002 U	mg/L
G51D	Compliance	E002	09/25/2023	Boron, total	0.899 J-	mg/L
G51D	Compliance	E002	09/25/2023	Cadmium, total	0.0002 U	mg/L
G51D	Compliance	E002	09/25/2023	Calcium, total	28.7	mg/L
G51D	Compliance	E002	09/25/2023	Chloride, total	4.00 J	mg/L
G51D	Compliance	E002	09/25/2023	Chromium, total	0.00170	mg/L
G51D	Compliance	E002	09/25/2023	Cobalt, total	0.0008 J	mg/L
G51D	Compliance	E002	09/25/2023	Dissolved Oxygen	1.75	mg/L
G51D	Compliance	E002	09/25/2023	Fluoride, total	0.08 J	mg/L
G51D	Compliance	E002	09/25/2023	Lead, total	0.0006 U	mg/L
G51D	Compliance	E002	09/25/2023	Lithium, total	0.00580	mg/L
G51D	Compliance	E002	09/25/2023	Mercury, total	0.00006 U	mg/L
G51D	Compliance	E002	09/25/2023	Molybdenum, total	0.0006 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G51D	Compliance	E002	09/25/2023	Oxidation Reduction Potential	139	mV
G51D	Compliance	E002	09/25/2023	pH (field)	5.4	SU
G51D	Compliance	E002	09/25/2023	Radium 226 + Radium 228, total	1.57	pCi/L
G51D	Compliance	E002	09/25/2023	Selenium, total	0.00510	mg/L
G51D	Compliance	E002	09/25/2023	Specific Conductance @ 25C (field)	426	micromhos/cm
G51D	Compliance	E002	09/25/2023	Sulfate, total	127 J	mg/L
G51D	Compliance	E002	09/25/2023	Temperature	18.4	degrees C
G51D	Compliance	E002	09/25/2023	Thallium, total	0.001 U	mg/L
G51D	Compliance	E002	09/25/2023	Total Dissolved Solids	292	mg/L
G51D	Compliance	E002	09/25/2023	Turbidity, field	17.0	NTU
G52D	Compliance	E002	09/26/2023	Antimony, total	0.0004 U	mg/L
G52D	Compliance	E002	09/26/2023	Arsenic, total	0.00150	mg/L
G52D	Compliance	E002	09/26/2023	Barium, total	0.250	mg/L
G52D	Compliance	E002	09/26/2023	Beryllium, total	0.0002 U	mg/L
G52D	Compliance	E002	09/26/2023	Boron, total	0.03 UJ	mg/L
G52D	Compliance	E002	09/26/2023	Cadmium, total	0.0002 U	mg/L
G52D	Compliance	E002	09/26/2023	Calcium, total	44.8	mg/L
G52D	Compliance	E002	09/26/2023	Chloride, total	11.0	mg/L
G52D	Compliance	E002	09/26/2023	Chromium, total	0.0007 U	mg/L
G52D	Compliance	E002	09/26/2023	Cobalt, total	0.00420 J	mg/L
G52D	Compliance	E002	09/26/2023	Dissolved Oxygen	0.560	mg/L
G52D	Compliance	E002	09/26/2023	Fluoride, total	0.280	mg/L
G52D	Compliance	E002	09/26/2023	Lead, total	0.0006 U	mg/L
G52D	Compliance	E002	09/26/2023	Lithium, total	0.0023 J	mg/L
G52D	Compliance	E002	09/26/2023	Mercury, total	0.00006 U	mg/L
G52D	Compliance	E002	09/26/2023	Molybdenum, total	0.0009 J	mg/L
G52D	Compliance	E002	09/26/2023	Oxidation Reduction Potential	55.0	mV
G52D	Compliance	E002	09/26/2023	pH (field)	6.3	SU
G52D	Compliance	E002	09/26/2023	Radium 226 + Radium 228, total	1.7	pCi/L
G52D	Compliance	E002	09/26/2023	Selenium, total	0.0006 U	mg/L
G52D	Compliance	E002	09/26/2023	Specific Conductance @ 25C (field)	462	micromhos/cm
G52D	Compliance	E002	09/26/2023	Sulfate, total	52.0	mg/L
G52D	Compliance	E002	09/26/2023	Temperature	15.9	degrees C
G52D	Compliance	E002	09/26/2023	Thallium, total	0.001 U	mg/L
G52D	Compliance	E002	09/26/2023	Total Dissolved Solids	282	mg/L
G52D	Compliance	E002	09/26/2023	Turbidity, field	3.40	NTU
G53D	Compliance	E002	09/27/2023	Antimony, total	0.0004 U	mg/L
G53D	Compliance	E002	09/27/2023	Arsenic, total	0.0004 U	mg/L
G53D	Compliance	E002	09/27/2023	Barium, total	0.0910	mg/L
G53D	Compliance	E002	09/27/2023	Beryllium, total	0.0002 U	mg/L
G53D	Compliance	E002	09/27/2023	Boron, total	0.371	mg/L
G53D	Compliance	E002	09/27/2023	Cadmium, total	0.0002 U	mg/L
G53D	Compliance	E002	09/27/2023	Calcium, total	35.9	mg/L
G53D	Compliance	E002	09/27/2023	Chloride, total	17.0	mg/L
G53D	Compliance	E002	09/27/2023	Chromium, total	0.0007 U	mg/L
G53D	Compliance	E002	09/27/2023	Cobalt, total	0.00130	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G53D	Compliance	E002	09/27/2023	Dissolved Oxygen	0.600	mg/L
G53D	Compliance	E002	09/27/2023	Fluoride, total	0.760	mg/L
G53D	Compliance	E002	09/27/2023	Lead, total	0.0006 U	mg/L
G53D	Compliance	E002	09/27/2023	Lithium, total	0.0015 U	mg/L
G53D	Compliance	E002	09/27/2023	Mercury, total	0.00006 U	mg/L
G53D	Compliance	E002	09/27/2023	Molybdenum, total	0.0006 U	mg/L
G53D	Compliance	E002	09/27/2023	Oxidation Reduction Potential	-23.0	mV
G53D	Compliance	E002	09/27/2023	pH (field)	6.5	SU
G53D	Compliance	E002	09/27/2023	Radium 226 + Radium 228, total	1.14	pCi/L
G53D	Compliance	E002	09/27/2023	Selenium, total	0.0006 U	mg/L
G53D	Compliance	E002	09/27/2023	Specific Conductance @ 25C (field)	489	micromhos/cm
G53D	Compliance	E002	09/27/2023	Sulfate, total	73.0	mg/L
G53D	Compliance	E002	09/27/2023	Temperature	17.0	degrees C
G53D	Compliance	E002	09/27/2023	Thallium, total	0.001 U	mg/L
G53D	Compliance	E002	09/27/2023	Total Dissolved Solids	330	mg/L
G53D	Compliance	E002	09/27/2023	Turbidity, field	10.0	NTU
G54D	Compliance	E002	09/26/2023	Antimony, total	0.0004 U	mg/L
G54D	Compliance	E002	09/26/2023	Arsenic, total	0.0005 J	mg/L
G54D	Compliance	E002	09/26/2023	Barium, total	0.0739	mg/L
G54D	Compliance	E002	09/26/2023	Beryllium, total	0.0002 U	mg/L
G54D	Compliance	E002	09/26/2023	Boron, total	0.404	mg/L
G54D	Compliance	E002	09/26/2023	Cadmium, total	0.0002 U	mg/L
G54D	Compliance	E002	09/26/2023	Calcium, total	81.2	mg/L
G54D	Compliance	E002	09/26/2023	Chloride, total	20.0	mg/L
G54D	Compliance	E002	09/26/2023	Chromium, total	0.0007 U	mg/L
G54D	Compliance	E002	09/26/2023	Cobalt, total	0.0102	mg/L
G54D	Compliance	E002	09/26/2023	Dissolved Oxygen	3.04	mg/L
G54D	Compliance	E002	09/26/2023	Fluoride, total	0.300	mg/L
G54D	Compliance	E002	09/26/2023	Lead, total	0.0006 U	mg/L
G54D	Compliance	E002	09/26/2023	Lithium, total	0.0028 J	mg/L
G54D	Compliance	E002	09/26/2023	Mercury, total	0.00006 U	mg/L
G54D	Compliance	E002	09/26/2023	Molybdenum, total	0.0006 U	mg/L
G54D	Compliance	E002	09/26/2023	Oxidation Reduction Potential	38.0	mV
G54D	Compliance	E002	09/26/2023	pH (field)	6.6	SU
G54D	Compliance	E002	09/26/2023	Radium 226 + Radium 228, total	1.2	pCi/L
G54D	Compliance	E002	09/26/2023	Selenium, total	0.0006 U	mg/L
G54D	Compliance	E002	09/26/2023	Specific Conductance @ 25C (field)	846	micromhos/cm
G54D	Compliance	E002	09/26/2023	Sulfate, total	180	mg/L
G54D	Compliance	E002	09/26/2023	Temperature	17.2	degrees C
G54D	Compliance	E002	09/26/2023	Thallium, total	0.001 U	mg/L
G54D	Compliance	E002	09/26/2023	Total Dissolved Solids	508	mg/L
G54D	Compliance	E002	09/26/2023	Turbidity, field	7.80	NTU

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 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 low.
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 3, 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	E002	Antimony, total	mg/L	03/05/21 - 09/26/23	12	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G03	UA	E002	Arsenic, total	mg/L	03/05/21 - 09/26/23	12	42	CI around geomean	0.0011	0.010	Standard	No Exceedance
G03	UA	E002	Barium, total	mg/L	03/05/21 - 09/26/23	12	0	CI around mean	0.059	2.0	Standard	No Exceedance
G03	UA	E002	Beryllium, total	mg/L	03/05/21 - 09/26/23	12	92	CI around median	0.001	0.004	Standard	No Exceedance
G03	UA	E002	Boron, total	mg/L	03/05/21 - 09/26/23	12	0	CI around mean	0.228	2	Standard	No Exceedance
G03	UA	E002	Cadmium, total	mg/L	03/05/21 - 09/26/23	12	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G03	UA	E002	Chloride, total	mg/L	03/05/21 - 09/26/23	12	0	CI around mean	20.6	200	Standard	No Exceedance
G03	UA	E002	Chromium, total	mg/L	03/05/21 - 09/26/23	12	8	CI around mean	0.00291	0.1	Standard	No Exceedance
G03	UA	E002	Cobalt, total	mg/L	03/05/21 - 09/26/23	12	25	CI around geomean	0.0014	0.006	Standard	No Exceedance
G03	UA	E002	Fluoride, total	mg/L	03/05/21 - 09/26/23	12	0	CI around mean	0.191	4.0	Standard	No Exceedance
G03	UA	E002	Lead, total	mg/L	03/05/21 - 09/26/23	12	33	CI around geomean	0.00113	0.0075	Standard	No Exceedance
G03	UA	E002	Lithium, total	mg/L	03/05/21 - 09/26/23	12	67	CI around median	0.003	0.04	Standard	No Exceedance
G03	UA	E002	Mercury, total	mg/L	03/05/21 - 09/26/23	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G03	UA	E002	Molybdenum, total	mg/L	03/05/21 - 09/26/23	12	83	CI around median	0.0015	0.1	Standard	No Exceedance
G03	UA	E002	pH (field)	SU	03/05/21 - 09/26/23	12	0	CI around mean	6.2/6.4	6.0/9.0	Background/Standard	No Exceedance
G03	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/05/21 - 09/26/23	12	0	CI around mean	0.307	5	Standard	No Exceedance
G03	UA	E002	Selenium, total	mg/L	03/05/21 - 09/26/23	12	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G03	UA	E002	Sulfate, total	mg/L	03/05/21 - 09/26/23	12	0	CI around mean	71.2	400	Standard	No Exceedance
G03	UA	E002	Thallium, total	mg/L	03/05/21 - 09/26/23	12	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G03	UA	E002	Total Dissolved Solids	mg/L	03/05/21 - 09/26/23	12	0	CI around median	284	1,200	Standard	No Exceedance
G05	UA	E002	Antimony, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G05	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/27/23	12	92	CI around median	0.001	0.010	Standard	No Exceedance
G05	UA	E002	Barium, total	mg/L	03/04/21 - 09/27/23	12	0	CB around linear reg	0.159	2.0	Standard	No Exceedance
G05	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G05	UA	E002	Boron, total	mg/L	03/04/21 - 09/27/23	12	0	CB around linear reg	-0.0117	2	Standard	No Exceedance
G05	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G05	UA	E002	Chloride, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	16.6	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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	E002	Chromium, total	mg/L	03/04/21 - 09/27/23	12	75	CI around median	0.0015	0.1	Standard	No Exceedance
G05	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	0.00601	0.006	Standard	Exceedance
G05	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	0.314	4.0	Standard	No Exceedance
G05	UA	E002	Lead, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G05	UA	E002	Lithium, total	mg/L	03/04/21 - 09/27/23	12	75	CI around median	0.003	0.04	Standard	No Exceedance
G05	UA	E002	Mercury, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G05	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/27/23	12	8	CI around mean	0.00408	0.1	Standard	No Exceedance
G05	UA	E002	pH (field)	SU	03/04/21 - 09/27/23	12	0	CI around mean	6.4/6.5	6.0/9.0	Background/Standard	No Exceedance
G05	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/27/23	12	0	CI around geomean	0.344	5	Standard	No Exceedance
G05	UA	E002	Selenium, total	mg/L	03/04/21 - 09/27/23	12	25	CB around linear reg	-0.000179	0.05	Standard	No Exceedance
G05	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	82	400	Standard	No Exceedance
G05	UA	E002	Thallium, total	mg/L	03/04/21 - 09/27/23	12	92	CI around median	0.002	0.002	Standard	No Exceedance
G05	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	352	1,200	Standard	No Exceedance
G06	UA	E002	Antimony, total	mg/L	03/04/21 - 09/27/23	12	92	CI around median	0.001	0.006	Standard	No Exceedance
G06	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/27/23	12	58	CI around median	0.001	0.010	Standard	No Exceedance
G06	UA	E002	Barium, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	0.0269	2.0	Standard	No Exceedance
G06	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G06	UA	E002	Boron, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	3.08	2	Standard	Exceedance
G06	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G06	UA	E002	Chloride, total	mg/L	03/04/21 - 09/27/23	12	0	CI around median	21	200	Standard	No Exceedance
G06	UA	E002	Chromium, total	mg/L	03/04/21 - 09/27/23	12	33	CI around mean	0.00143	0.1	Standard	No Exceedance
G06	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/27/23	12	58	CI around median	0.001	0.006	Standard	No Exceedance
G06	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	0.253	4.0	Standard	No Exceedance
G06	UA	E002	Lead, total	mg/L	03/04/21 - 09/27/23	12	83	CI around median	0.001	0.0075	Standard	No Exceedance
G06	UA	E002	Lithium, total	mg/L	03/04/21 - 09/27/23	12	25	CI around median	0.0031	0.04	Standard	No Exceedance
G06	UA	E002	Mercury, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G06	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.0015	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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	E002	pH (field)	SU	03/04/21 - 09/27/23	11	0	CI around mean	6.4/6.6	6.0/9.0	Background/Standard	No Exceedance
G06	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/27/23	12	0	CI around geomean	0.48	5	Standard	No Exceedance
G06	UA	E002	Selenium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G06	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	207	400	Standard	No Exceedance
G06	UA	E002	Thallium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G06	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	506	1,200	Standard	No Exceedance
G07	UA	E002	Antimony, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G07	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/27/23	12	75	CI around median	0.001	0.010	Standard	No Exceedance
G07	UA	E002	Barium, total	mg/L	03/04/21 - 09/27/23	12	0	CI around geomean	0.0415	2.0	Standard	No Exceedance
G07	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/27/23	12	92	CI around median	0.001	0.004	Standard	No Exceedance
G07	UA	E002	Boron, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	4.29	2	Standard	Exceedance
G07	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G07	UA	E002	Chloride, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	20.2	200	Standard	No Exceedance
G07	UA	E002	Chromium, total	mg/L	03/04/21 - 09/27/23	12	33	CI around geomean	0.00196	0.1	Standard	No Exceedance
G07	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	0.00136	0.006	Standard	No Exceedance
G07	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/27/23	12	0	CI around median	0.35	4.0	Standard	No Exceedance
G07	UA	E002	Lead, total	mg/L	03/04/21 - 09/27/23	12	75	CI around median	0.001	0.0075	Standard	No Exceedance
G07	UA	E002	Lithium, total	mg/L	03/04/21 - 09/27/23	12	67	CI around median	0.003	0.04	Standard	No Exceedance
G07	UA	E002	Mercury, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G07	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/27/23	12	92	CI around median	0.0015	0.1	Standard	No Exceedance
G07	UA	E002	pH (field)	SU	03/04/21 - 09/27/23	12	0	CI around mean	6.2/6.6	6.0/9.0	Background/Standard	No Exceedance
G07	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/27/23	12	0	CB around linear reg	1.09	5	Standard	No Exceedance
G07	UA	E002	Selenium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G07	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	249	400	Standard	No Exceedance
G07	UA	E002	Thallium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G07	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	572	1,200	Standard	No Exceedance
G08	UA	E002	Antimony, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
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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	E002	Arsenic, total	mg/L	03/04/21 - 09/26/23	12	8	CI around mean	0.00595	0.010	Standard	No Exceedance
G08	UA	E002	Barium, total	mg/L	03/04/21 - 09/26/23	12	0	CB around T-S line	-0.398	2.0	Standard	No Exceedance
G08	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.001	0.004	Standard	No Exceedance
G08	UA	E002	Boron, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	4.1	2	Standard	Exceedance
G08	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G08	UA	E002	Chloride, total	mg/L	03/04/21 - 09/26/23	12	0	CI around median	14	200	Standard	No Exceedance
G08	UA	E002	Chromium, total	mg/L	03/04/21 - 09/26/23	12	17	CI around geomean	0.00162	0.1	Standard	No Exceedance
G08	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/26/23	12	8	CI around geomean	0.00319	0.006	Standard	No Exceedance
G08	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	0.202	4.0	Standard	No Exceedance
G08	UA	E002	Lead, total	mg/L	03/04/21 - 09/26/23	12	83	CI around median	0.001	0.0075	Standard	No Exceedance
G08	UA	E002	Lithium, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.003	0.04	Standard	No Exceedance
G08	UA	E002	Mercury, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G08	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/26/23	12	17	CI around median	0.0017	0.1	Standard	No Exceedance
G08	UA	E002	pH (field)	SU	03/04/21 - 09/26/23	12	0	CI around median	6.8/7.0	6.0/9.0	Background/Standard	No Exceedance
G08	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/26/23	12	0	CI around mean	0.372	5	Standard	No Exceedance
G08	UA	E002	Selenium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G08	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	214	400	Standard	No Exceedance
G08	UA	E002	Thallium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G08	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	548	1,200	Standard	No Exceedance
G09	UA	E002	Antimony, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.001	0.006	Standard	No Exceedance
G09	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/26/23	12	17	CI around mean	0.00235	0.010	Standard	No Exceedance
G09	UA	E002	Barium, total	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	-0.00515	2.0	Standard	No Exceedance
G09	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/26/23	12	75	CI around median	0.001	0.004	Standard	No Exceedance
G09	UA	E002	Boron, total	mg/L	03/04/21 - 09/26/23	12	0	CB around T-S line	3.64	2	Standard	Exceedance
G09	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G09	UA	E002	Chloride, total	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	13.6	200	Standard	No Exceedance
G09	UA	E002	Chromium, total	mg/L	03/04/21 - 09/26/23	12	25	CI around mean	0.00178	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
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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	E002	Cobalt, total	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	-0.00188	0.006	Standard	No Exceedance
G09	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	0.279	4.0	Standard	No Exceedance
G09	UA	E002	Lead, total	mg/L	03/04/21 - 09/26/23	12	67	CI around median	0.001	0.0075	Standard	No Exceedance
G09	UA	E002	Lithium, total	mg/L	03/04/21 - 09/26/23	12	17	CI around median	0.0034	0.04	Standard	No Exceedance
G09	UA	E002	Mercury, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G09	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G09	UA	E002	pH (field)	SU	03/04/21 - 09/26/23	12	0	CI around median	6.0/6.4	6.0/9.0	Background/Standard	No Exceedance
G09	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/26/23	12	0	CI around geomean	0.249	5	Standard	No Exceedance
G09	UA	E002	Selenium, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.001	0.05	Standard	No Exceedance
G09	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	260	400	Standard	No Exceedance
G09	UA	E002	Thallium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G09	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	453	1,200	Standard	No Exceedance
G10	UA	E002	Antimony, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G10	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/26/23	12	33	CI around geomean	0.00111	0.010	Standard	No Exceedance
G10	UA	E002	Barium, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	0.039	2.0	Standard	No Exceedance
G10	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.001	0.004	Standard	No Exceedance
G10	UA	E002	Boron, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	3.61	2	Standard	Exceedance
G10	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G10	UA	E002	Chloride, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	25.7	200	Standard	No Exceedance
G10	UA	E002	Chromium, total	mg/L	03/04/21 - 09/26/23	12	33	CI around mean	0.0013	0.1	Standard	No Exceedance
G10	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	-0.00202	0.006	Standard	No Exceedance
G10	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	0.272	4.0	Standard	No Exceedance
G10	UA	E002	Lead, total	mg/L	03/04/21 - 09/26/23	12	83	CI around median	0.001	0.0075	Standard	No Exceedance
G10	UA	E002	Lithium, total	mg/L	03/04/21 - 09/26/23	12	42	CI around median	0.003	0.04	Standard	No Exceedance
G10	UA	E002	Mercury, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G10	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/26/23	12	58	CI around median	0.0015	0.1	Standard	No Exceedance
G10	UA	E002	pH (field)	SU	03/04/21 - 09/26/23	12	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 3, 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	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/26/23	12	0	CI around mean	0.503	5	Standard	No Exceedance
G10	UA	E002	Selenium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G10	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	372	400	Standard	No Exceedance
G10	UA	E002	Thallium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G10	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	743	1,200	Standard	No Exceedance
G11	UA	E002	Antimony, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G11	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.010	Standard	No Exceedance
G11	UA	E002	Barium, total	mg/L	03/04/21 - 09/26/23	12	0	CI around geomean	0.0129	2.0	Standard	No Exceedance
G11	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.001	0.004	Standard	No Exceedance
G11	UA	E002	Boron, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	0.288	2	Standard	No Exceedance
G11	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G11	UA	E002	Chloride, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	32.8	200	Standard	No Exceedance
G11	UA	E002	Chromium, total	mg/L	03/04/21 - 09/26/23	12	83	CI around median	0.0015	0.1	Standard	No Exceedance
G11	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/26/23	12	33	CI around geomean	0.000945	0.006	Standard	No Exceedance
G11	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	0.172	4.0	Standard	No Exceedance
G11	UA	E002	Lead, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.001	0.0075	Standard	No Exceedance
G11	UA	E002	Lithium, total	mg/L	03/04/21 - 09/26/23	12	17	CI around median	0.0035	0.04	Standard	No Exceedance
G11	UA	E002	Mercury, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G11	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.0015	0.1	Standard	No Exceedance
G11	UA	E002	pH (field)	SU	03/04/21 - 09/26/23	12	0	CI around median	5.8/6.0	6.0/9.0	Background/Standard	No Exceedance
G11	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/26/23	12	0	CI around geomean	0.199	5	Standard	No Exceedance
G11	UA	E002	Selenium, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	0.00401	0.05	Standard	No Exceedance
G11	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	2.87	400	Standard	No Exceedance
G11	UA	E002	Thallium, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.002	0.002	Standard	No Exceedance
G11	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	693	1,200	Standard	No Exceedance
G51D	UA	E002	Antimony, total	mg/L	12/03/15 - 09/25/23	17	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G51D	UA	E002	Arsenic, total	mg/L	12/03/15 - 09/25/23	22	100	All ND - Last	0.001	0.010	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
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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	E002	Barium, total	mg/L	12/03/15 - 09/25/23	22	0	CB around T-S line	-0.00761	2.0	Standard	No Exceedance
G51D	UA	E002	Beryllium, total	mg/L	12/03/15 - 09/25/23	17	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G51D	UA	E002	Boron, total	mg/L	12/03/15 - 09/25/23	23	0	CB around T-S line	0.534	2	Standard	No Exceedance
G51D	UA	E002	Cadmium, total	mg/L	12/03/15 - 09/25/23	17	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G51D	UA	E002	Chloride, total	mg/L	12/03/15 - 09/25/23	23	0	CB around T-S line	2.5	200	Standard	No Exceedance
G51D	UA	E002	Chromium, total	mg/L	12/03/15 - 09/25/23	22	73	CB around T-S line	0.00116	0.1	Standard	No Exceedance
G51D	UA	E002	Cobalt, total	mg/L	12/03/15 - 09/25/23	22	14	CB around T-S line	-0.0152	0.006	Standard	No Exceedance
G51D	UA	E002	Fluoride, total	mg/L	12/03/15 - 09/25/23	23	87	CI around median	0.1	4.0	Standard	No Exceedance
G51D	UA	E002	Lead, total	mg/L	12/03/15 - 09/25/23	22	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G51D	UA	E002	Lithium, total	mg/L	12/03/15 - 09/25/23	22	4	CB around T-S line	0.00579	0.04	Standard	No Exceedance
G51D	UA	E002	Mercury, total	mg/L	12/03/15 - 09/25/23	17	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G51D	UA	E002	Molybdenum, total	mg/L	12/03/15 - 09/25/23	18	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G51D	UA	E002	pH (field)	SU	12/03/15 - 09/25/23	23	0	CB around T-S line	5.2/5.4	6.0/9.0	Background/Standard	Exceedance
G51D	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 09/25/23	22	0	CI around mean	0.452	5	Standard	No Exceedance
G51D	UA	E002	Selenium, total	mg/L	12/03/15 - 09/25/23	22	4	CB around T-S line	0.00454	0.05	Standard	No Exceedance
G51D	UA	E002	Sulfate, total	mg/L	12/03/15 - 09/25/23	23	0	CI around median	121	400	Standard	No Exceedance
G51D	UA	E002	Thallium, total	mg/L	12/03/15 - 09/25/23	17	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G51D	UA	E002	Total Dissolved Solids	mg/L	12/03/15 - 09/25/23	23	0	CB around linear reg	284	1,200	Standard	No Exceedance
G52D	UA	E002	Antimony, total	mg/L	12/03/15 - 09/26/23	16	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G52D	UA	E002	Arsenic, total	mg/L	12/03/15 - 09/26/23	21	10	CB around linear reg	-0.000734	0.010	Standard	No Exceedance
G52D	UA	E002	Barium, total	mg/L	12/03/15 - 09/26/23	21	0	CB around linear reg	0.113	2.0	Standard	No Exceedance
G52D	UA	E002	Beryllium, total	mg/L	12/03/15 - 09/26/23	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G52D	UA	E002	Boron, total	mg/L	12/03/15 - 09/26/23	22	91	CI around median	0.025	2	Standard	No Exceedance
G52D	UA	E002	Cadmium, total	mg/L	12/03/15 - 09/26/23	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G52D	UA	E002	Chloride, total	mg/L	12/03/15 - 09/26/23	22	0	CB around linear reg	6.76	200	Standard	No Exceedance
G52D	UA	E002	Chromium, total	mg/L	12/03/15 - 09/26/23	21	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G52D	UA	E002	Cobalt, total	mg/L	12/03/15 - 09/26/23	21	0	CI around mean	0.00287	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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	E002	Fluoride, total	mg/L	12/03/15 - 09/26/23	22	0	CI around median	0.24	4.0	Standard	No Exceedance
G52D	UA	E002	Lead, total	mg/L	12/03/15 - 09/26/23	21	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G52D	UA	E002	Lithium, total	mg/L	12/03/15 - 09/26/23	21	43	CI around geomean	0.0025	0.04	Standard	No Exceedance
G52D	UA	E002	Mercury, total	mg/L	12/03/15 - 09/26/23	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G52D	UA	E002	Molybdenum, total	mg/L	12/03/15 - 09/26/23	17	76	CI around median	0.001	0.1	Standard	No Exceedance
G52D	UA	E002	pH (field)	SU	12/03/15 - 09/26/23	22	0	CI around mean	6.2/6.4	6.0/9.0	Background/Standard	No Exceedance
G52D	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 09/26/23	21	0	CI around mean	0.824	5	Standard	No Exceedance
G52D	UA	E002	Selenium, total	mg/L	12/03/15 - 09/26/23	21	95	CI around median	0.001	0.05	Standard	No Exceedance
G52D	UA	E002	Sulfate, total	mg/L	12/03/15 - 09/26/23	22	0	CI around mean	77.9	400	Standard	No Exceedance
G52D	UA	E002	Thallium, total	mg/L	12/03/15 - 09/26/23	16	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G52D	UA	E002	Total Dissolved Solids	mg/L	12/03/15 - 09/26/23	22	0	CB around linear reg	278	1,200	Standard	No Exceedance
G53D	UA	E002	Antimony, total	mg/L	12/03/15 - 09/27/23	17	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G53D	UA	E002	Arsenic, total	mg/L	12/03/15 - 09/27/23	22	100	All ND - Last	0.001	0.010	Standard	No Exceedance
G53D	UA	E002	Barium, total	mg/L	12/03/15 - 09/27/23	22	0	CB around linear reg	0.0177	2.0	Standard	No Exceedance
G53D	UA	E002	Beryllium, total	mg/L	12/03/15 - 09/27/23	17	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G53D	UA	E002	Boron, total	mg/L	12/03/15 - 09/27/23	23	0	CI around median	0.334	2	Standard	No Exceedance
G53D	UA	E002	Cadmium, total	mg/L	12/03/15 - 09/27/23	17	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G53D	UA	E002	Chloride, total	mg/L	12/03/15 - 09/27/23	23	0	CI around median	17	200	Standard	No Exceedance
G53D	UA	E002	Chromium, total	mg/L	12/03/15 - 09/27/23	22	86	CI around median	0.001	0.1	Standard	No Exceedance
G53D	UA	E002	Cobalt, total	mg/L	12/03/15 - 09/27/23	22	18	CI around median	0.0013	0.006	Standard	No Exceedance
G53D	UA	E002	Fluoride, total	mg/L	12/03/15 - 09/27/23	23	0	CI around mean	0.641	4.0	Standard	No Exceedance
G53D	UA	E002	Lead, total	mg/L	12/03/15 - 09/27/23	22	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G53D	UA	E002	Lithium, total	mg/L	12/03/15 - 09/27/23	22	54	CB around T-S line	0.00266	0.04	Standard	No Exceedance
G53D	UA	E002	Mercury, total	mg/L	12/03/15 - 09/27/23	17	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G53D	UA	E002	Molybdenum, total	mg/L	12/03/15 - 09/27/23	18	89	CB around T-S line	0.001	0.1	Standard	No Exceedance
G53D	UA	E002	pH (field)	SU	12/03/15 - 09/27/23	23	0	CB around T-S line	6.3/6.5	6.0/9.0	Background/Standard	No Exceedance
G53D	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 09/27/23	22	0	CI around mean	0.351	5	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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	E002	Selenium, total	mg/L	12/03/15 - 09/27/23	22	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G53D	UA	E002	Sulfate, total	mg/L	12/03/15 - 09/27/23	23	0	CB around T-S line	46.6	400	Standard	No Exceedance
G53D	UA	E002	Thallium, total	mg/L	12/03/15 - 09/27/23	17	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G53D	UA	E002	Total Dissolved Solids	mg/L	12/03/15 - 09/27/23	23	0	CB around T-S line	268	1,200	Standard	No Exceedance
G54D	UA	E002	Antimony, total	mg/L	12/03/15 - 09/26/23	17	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G54D	UA	E002	Arsenic, total	mg/L	12/03/15 - 09/26/23	22	50	CB around T-S line	-0.000236	0.010	Standard	No Exceedance
G54D	UA	E002	Barium, total	mg/L	12/03/15 - 09/26/23	22	0	CB around T-S line	0.0612	2.0	Standard	No Exceedance
G54D	UA	E002	Beryllium, total	mg/L	12/03/15 - 09/26/23	17	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G54D	UA	E002	Boron, total	mg/L	12/03/15 - 09/26/23	23	0	CI around mean	0.464	2	Standard	No Exceedance
G54D	UA	E002	Cadmium, total	mg/L	12/03/15 - 09/26/23	17	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G54D	UA	E002	Chloride, total	mg/L	12/03/15 - 09/26/23	23	4	CB around T-S line	13.6	200	Standard	No Exceedance
G54D	UA	E002	Chromium, total	mg/L	12/03/15 - 09/26/23	22	68	CI around median	0.0015	0.1	Standard	No Exceedance
G54D	UA	E002	Cobalt, total	mg/L	12/03/15 - 09/26/23	22	0	CB around linear reg	0.00315	0.006	Standard	No Exceedance
G54D	UA	E002	Fluoride, total	mg/L	12/03/15 - 09/26/23	23	0	CB around linear reg	0.258	4.0	Standard	No Exceedance
G54D	UA	E002	Lead, total	mg/L	12/03/15 - 09/26/23	22	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G54D	UA	E002	Lithium, total	mg/L	12/03/15 - 09/26/23	22	18	CB around linear reg	0.00175	0.04	Standard	No Exceedance
G54D	UA	E002	Mercury, total	mg/L	12/03/15 - 09/26/23	17	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G54D	UA	E002	Molybdenum, total	mg/L	12/03/15 - 09/26/23	18	94	CB around T-S line	0.001	0.1	Standard	No Exceedance
G54D	UA	E002	pH (field)	SU	12/03/15 - 09/26/23	23	0	CI around mean	6.6/6.8	6.0/9.0	Background/Standard	No Exceedance
G54D	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 09/26/23	22	0	CI around geomean	0.493	5	Standard	No Exceedance
G54D	UA	E002	Selenium, total	mg/L	12/03/15 - 09/26/23	22	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G54D	UA	E002	Sulfate, total	mg/L	12/03/15 - 09/26/23	23	0	CB around linear reg	175	400	Standard	No Exceedance
G54D	UA	E002	Thallium, total	mg/L	12/03/15 - 09/26/23	17	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G54D	UA	E002	Total Dissolved Solids	mg/L	12/03/15 - 09/26/23	23	0	CI around mean	491	1,200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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
GROUNDWATER ELEVATION DATA
QUARTER 3, 2023

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 3, 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	09/25/2023	44.38	319.81
G02D	Background	09/25/2023	44.46	319.19
G03	Compliance	09/25/2023	39.40	318.47
G05	Compliance	09/25/2023	44.31	316.90
G06	Compliance	09/25/2023	41.10	314.14
G07	Compliance	09/25/2023	41.52	312.01
G08	Compliance	09/25/2023	32.69	310.85
G09	Compliance	09/25/2023	41.48	310.22
G10	Compliance	09/25/2023	41.80	311.69
G11	Compliance	09/25/2023	48.69	317.86
G51D	Compliance	09/25/2023	45.40	318.45
G52D	Compliance	09/25/2023	28.81	319.60
G53D	Compliance	09/25/2023	39.22	316.25
G54D	Compliance	09/25/2023	43.85	313.18

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 3, 2023

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

November 16, 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-23Q3 **WorkOrder:** 23091473

Dear Eric Bauer:

TEKLAB, INC received 21 samples for JOP_845_401 on 9/29/2023 9:30:00 AM 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: 23091473
Client Project: JOP-23Q3
Report Date: 16-Nov-23

This reporting package includes the following:

Definitions

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Definitions

Client: Ramboll

Work Order: 23091473

Client Project: JOP-23Q3

Report Date: 16-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-23Q3

Work Order: 23091473
Report Date: 16-Nov-23

Cooler Receipt Temp: 5.6 °C

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

XSG01: insufficient water for measurement. SG02: removed per Roger Faughn.

G16S and G151: Ferrous Iron was not measured in the field; per Eric Bauer, proceed with reporting without Ferrous Iron data. EAH 10/17/23

G19S, G10, G101-LF and G12S Duplicate collection dates/times are per the field instrument(s) rather than the chain of custody. EAH 10/18/23

Per Eric Bauer's request, only JOP_845_401 data is included in this report. EAH 11/16/23

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
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Kansas City

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

Collinsville Air

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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:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-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:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-001 **Client Sample ID:** G01D

Matrix: GROUNDWATER **Collection Date:** 09/25/2023 13:07

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**44.16**	ft	1	09/25/2023 13:07	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**9.9**	NTU	1	09/25/2023 13:07	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**30**	mV	1	09/25/2023 13:07	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**533**	µS/cm	1	09/25/2023 13:07	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**18.1**	°C	1	09/25/2023 13:07	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.65**	mg/L	1	09/25/2023 13:07	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**6.53**		1	09/25/2023 13:07	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**260**	mg/L	1	09/27/2023 14:55	R336944
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	09/27/2023 14:55	R336944
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**350**	mg/L	1	09/28/2023 11:04	R337107
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**28**	mg/L	1	09/27/2023 20:09	R337008
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.21**	mg/L	1	09/27/2023 8:41	R336932
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**11**	mg/L	1	09/27/2023 20:09	R337023
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**31.1**	mg/L	1	09/30/2023 9:34	212544
Magnesium	NELAP	0.0055	0.0500		**9.32**	mg/L	1	09/30/2023 9:34	212544
Potassium	NELAP	0.0400	0.100		**1.24**	mg/L	1	09/30/2023 9:34	212544
Sodium	NELAP	0.0180	0.0500		**77.1**	mg/L	1	09/30/2023 9:34	212544
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 18:34	212544
Arsenic	NELAP	0.0004	0.0010	J	**0.0007**	mg/L	5	10/02/2023 18:34	212544
Barium	NELAP	0.0007	0.0010		**0.193**	mg/L	5	09/29/2023 21:23	212544
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/29/2023 21:23	212544
Boron	NELAP	0.0092	0.025	J	**0.015**	mg/L	5	09/29/2023 21:23	212544
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/29/2023 21:23	212544
Chromium	NELAP	0.0007	0.0015		**0.0038**	mg/L	5	10/02/2023 18:34	212544
Cobalt	NELAP	0.0001	0.0010	J	**0.0008**	mg/L	5	09/29/2023 21:23	212544
Lead	NELAP	0.0006	0.0010	J	**0.0008**	mg/L	5	09/29/2023 21:23	212544
Lithium	*	0.0015	0.0030		**< 0.0030**	mg/L	5	09/29/2023 21:23	212544
Molybdenum	*	0.0006	0.0015	J	**0.0007**	mg/L	5	09/29/2023 21:23	212544
Selenium	NELAP	0.0006	0.0010		**0.0016**	mg/L	5	10/02/2023 18:34	212544
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	09/29/2023 21:23	212544

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-001 **Client Sample ID:** G01D

Matrix: GROUNDWATER **Collection Date:** 09/25/2023 13:07

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	09/29/2023 16:03	212516

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-002 **Client Sample ID:** G02D

Matrix: GROUNDWATER **Collection Date:** 09/25/2023 14:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**44.46**	ft	1	09/25/2023 14:06	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**12**	NTU	1	09/25/2023 14:06	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**68**	mV	1	09/25/2023 14:06	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**412**	µS/cm	1	09/25/2023 14:06	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**16.1**	°C	1	09/25/2023 14:06	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.51**	mg/L	1	09/25/2023 14:06	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**6.40**		1	09/25/2023 14:06	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**152**	mg/L	1	09/27/2023 15:02	R336944
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	09/27/2023 15:02	R336944
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**226**	mg/L	1	09/28/2023 11:05	R337107
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**15**	mg/L	1	09/27/2023 20:15	R337008
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.21**	mg/L	1	09/27/2023 8:42	R336932
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**21**	mg/L	1	09/27/2023 20:15	R337023
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**33.7**	mg/L	1	09/30/2023 9:36	212544
Magnesium	NELAP	0.0055	0.0500		**9.66**	mg/L	1	09/30/2023 9:36	212544
Potassium	NELAP	0.0400	0.100		**1.08**	mg/L	1	09/30/2023 9:36	212544
Sodium	NELAP	0.0180	0.0500		**32.9**	mg/L	1	09/30/2023 9:36	212544
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 18:40	212544
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 18:40	212544
Barium	NELAP	0.0007	0.0010		**0.229**	mg/L	5	09/29/2023 21:29	212544
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/29/2023 21:29	212544
Boron	NELAP	0.0092	0.0250		**0.0401**	mg/L	5	09/29/2023 21:29	212544
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/29/2023 21:29	212544
Chromium	NELAP	0.0007	0.0015	J	**0.0010**	mg/L	5	10/02/2023 18:40	212544
Cobalt	NELAP	0.0001	0.0010	J	**0.0004**	mg/L	5	09/29/2023 21:29	212544
Lead	NELAP	0.0006	0.0010		**0.0019**	mg/L	5	09/29/2023 21:29	212544
Lithium	*	0.0015	0.0030		**< 0.0030**	mg/L	5	09/29/2023 21:29	212544
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	09/29/2023 21:29	212544
Selenium	NELAP	0.0006	0.0010		**0.0012**	mg/L	5	10/02/2023 18:40	212544
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	09/29/2023 21:29	212544

Laboratory Results

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

Client: Ramboll
Work Order: 23091473
Client Project: JOP-23Q3
Report Date: 16-Nov-23
Lab ID: 23091473-002
Client Sample ID: G02D
Matrix: GROUNDWATER
Collection Date: 09/25/2023 14:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	09/29/2023 16:06	212516

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-003 **Client Sample ID:** G03

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 12:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**39.49**	ft	1	09/26/2023 12:35	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**35**	NTU	1	09/26/2023 12:35	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**40**	mV	1	09/26/2023 12:35	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**445**	µS/cm	1	09/26/2023 12:35	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.8**	°C	1	09/26/2023 12:35	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**3.89**	mg/L	1	09/26/2023 12:35	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**6.43**		1	09/26/2023 12:35	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**144**	mg/L	1	09/27/2023 15:09	R336944
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	09/27/2023 15:09	R336944
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**295**	mg/L	2.5	09/29/2023 9:50	R337238
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**67**	mg/L	5	09/29/2023 23:09	R337145
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.21**	mg/L	1	09/27/2023 8:44	R336932
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**19**	mg/L	1	09/27/2023 20:23	R337023
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**41.8**	mg/L	1	09/30/2023 9:37	212544
Magnesium	NELAP	0.0055	0.0500		**13.8**	mg/L	1	09/30/2023 9:37	212544
Potassium	NELAP	0.0400	0.100		**0.988**	mg/L	1	09/30/2023 9:37	212544
Sodium	NELAP	0.0180	0.0500		**32.2**	mg/L	1	09/30/2023 9:37	212544
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 18:47	212544
Arsenic	NELAP	0.0004	0.0010	J	**0.0005**	mg/L	5	10/02/2023 18:47	212544
Barium	NELAP	0.0007	0.0010		**0.0748**	mg/L	5	09/29/2023 21:35	212544
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/29/2023 21:35	212544
Boron	NELAP	0.0092	0.0250		**0.267**	mg/L	5	09/29/2023 21:35	212544
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/29/2023 21:35	212544
Chromium	NELAP	0.0007	0.0015		**0.0026**	mg/L	5	10/02/2023 18:47	212544
Cobalt	NELAP	0.0001	0.0010		**0.0014**	mg/L	5	09/29/2023 21:35	212544
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/29/2023 21:35	212544
Lithium	*	0.0015	0.0030	J	**0.0018**	mg/L	5	09/29/2023 21:35	212544
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	09/29/2023 21:35	212544
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 18:47	212544
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	09/29/2023 21:35	212544

Laboratory Results

Teklab, Inc.
Environmental Laboratory
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Client: Ramboll
Work Order: 23091473
Client Project: JOP-23Q3
Report Date: 16-Nov-23
Lab ID: 23091473-003
Client Sample ID: G03
Matrix: GROUNDWATER
Collection Date: 09/26/2023 12:35

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	09/29/2023 16:08	212516

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-004 **Client Sample ID:** G05

Matrix: GROUNDWATER **Collection Date:** 09/27/2023 10:14

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**44.47**	ft	1	09/27/2023 10:14	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**20**	NTU	1	09/27/2023 10:14	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-17**	mV	1	09/27/2023 10:14	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**565**	µS/cm	1	09/27/2023 10:14	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.4**	°C	1	09/27/2023 10:14	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.94**	mg/L	1	09/27/2023 10:14	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**6.42**		1	09/27/2023 10:14	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**195**	mg/L	1	10/03/2023 10:04	R337243
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/03/2023 10:04	R337243
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**360**	mg/L	1	10/02/2023 10:28	R337236
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**82**	mg/L	5	10/03/2023 22:53	R337255
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.41**	mg/L	1	10/03/2023 11:20	R337213
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**20**	mg/L	1	10/03/2023 22:48	R337287
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**52.2**	mg/L	1	09/29/2023 21:57	212596
Magnesium	NELAP	0.0055	0.0500		**18.8**	mg/L	1	09/29/2023 21:57	212596
Potassium	NELAP	0.0400	0.100		**1.59**	mg/L	1	09/29/2023 21:57	212596
Sodium	NELAP	0.0180	0.0500		**42.6**	mg/L	1	09/29/2023 21:57	212596
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:31	212596
Arsenic	NELAP	0.0004	0.0010		**0.0012**	mg/L	5	10/02/2023 13:31	212596
Barium	NELAP	0.0007	0.0010		**0.169**	mg/L	5	10/03/2023 9:28	212596
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:31	212596
Boron	NELAP	0.0092	0.0250		**0.0436**	mg/L	5	10/03/2023 9:28	212596
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:31	212596
Chromium	NELAP	0.0007	0.0015		**0.0023**	mg/L	5	10/03/2023 9:28	212596
Cobalt	NELAP	0.0001	0.0010		**0.0023**	mg/L	5	10/03/2023 9:28	212596
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:31	212596
Lithium	*	0.0015	0.0030	J	**0.0030**	mg/L	5	10/02/2023 13:31	212596
Molybdenum	*	0.0006	0.0015		**0.0046**	mg/L	5	10/03/2023 9:28	212596
Selenium	NELAP	0.0006	0.0010		**0.0011**	mg/L	5	10/02/2023 13:31	212596
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/02/2023 13:31	212596

CCV recovered outside the upper control limits for Be and Li. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Laboratory Results

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

Client: Ramboll
Work Order: 23091473
Client Project: JOP-23Q3
Report Date: 16-Nov-23
Lab ID: 23091473-004
Client Sample ID: G05
Matrix: GROUNDWATER
Collection Date: 09/27/2023 10:14

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	10/03/2023 13:26	212711

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-005 **Client Sample ID:** G06

Matrix: GROUNDWATER **Collection Date:** 09/27/2023 11:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**41.49**	ft	1	09/27/2023 11:16	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**43**	NTU	1	09/27/2023 11:16	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**14**	mV	1	09/27/2023 11:16	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**716**	µS/cm	1	09/27/2023 11:16	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**16.2**	°C	1	09/27/2023 11:16	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.88**	mg/L	1	09/27/2023 11:16	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**6.56**		1	09/27/2023 11:16	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**173**	mg/L	1	10/03/2023 10:16	R337243
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/03/2023 10:16	R337243
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**486**	mg/L	1	10/02/2023 10:28	R337236
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**187**	mg/L	10	10/03/2023 23:02	R337255
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.27**	mg/L	1	10/03/2023 11:21	R337213
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**21**	mg/L	1	10/03/2023 22:56	R337287
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**84.9**	mg/L	1	09/29/2023 21:59	212596
Magnesium	NELAP	0.0055	0.0500		**24.2**	mg/L	1	09/29/2023 21:59	212596
Potassium	NELAP	0.0400	0.100		**2.43**	mg/L	1	09/29/2023 21:59	212596
Sodium	NELAP	0.0180	0.0500		**45.6**	mg/L	1	09/29/2023 21:59	212596
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:37	212596
Arsenic	NELAP	0.0004	0.0010	J	**0.0010**	mg/L	5	10/02/2023 13:37	212596
Barium	NELAP	0.0007	0.0010		**0.0251**	mg/L	5	10/03/2023 9:33	212596
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:37	212596
Boron	NELAP	0.0092	0.0250		**3.29**	mg/L	5	10/02/2023 13:37	212596
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:37	212596
Chromium	NELAP	0.0007	0.0015		**0.0028**	mg/L	5	10/03/2023 9:33	212596
Cobalt	NELAP	0.0001	0.0010	J	**0.0008**	mg/L	5	10/02/2023 13:37	212596
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:37	212596
Lithium	*	0.0015	0.0030		**0.0035**	mg/L	5	10/03/2023 9:33	212596
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	10/02/2023 13:37	212596
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:37	212596
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/02/2023 13:37	212596

CCV recovered outside the upper control limits for Be. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Laboratory Results

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

Client: Ramboll
Work Order: 23091473
Client Project: JOP-23Q3
Report Date: 16-Nov-23
Lab ID: 23091473-005
Client Sample ID: G06
Matrix: GROUNDWATER
Collection Date: 09/27/2023 11:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	J	**0.00012**	mg/L	1	10/03/2023 13:28	212711

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-006 **Client Sample ID:** G07

Matrix: GROUNDWATER **Collection Date:** 09/27/2023 11:57

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**41.58**	ft	1	09/27/2023 11:57	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**13**	NTU	1	09/27/2023 11:57	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**31**	mV	1	09/27/2023 11:57	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**847**	µS/cm	1	09/27/2023 11:57	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**16.0**	°C	1	09/27/2023 11:57	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.72**	mg/L	1	09/27/2023 11:57	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**6.43**		1	09/27/2023 11:57	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**177**	mg/L	1	10/03/2023 10:30	R337243
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/03/2023 10:30	R337243
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**612**	mg/L	1	10/02/2023 10:28	R337236
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**268**	mg/L	10	10/03/2023 23:18	R337255
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.43**	mg/L	1	10/03/2023 11:23	R337213
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**21**	mg/L	1	10/03/2023 23:07	R337287
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**97.1**	mg/L	1	09/29/2023 22:08	212596
Magnesium	NELAP	0.0055	0.0500		**24.8**	mg/L	1	09/29/2023 22:08	212596
Potassium	NELAP	0.0400	0.100		**4.10**	mg/L	1	09/29/2023 22:08	212596
Sodium	NELAP	0.0180	0.0500		**69.0**	mg/L	1	09/29/2023 22:08	212596
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:42	212596
Arsenic	NELAP	0.0004	0.0010	J	**0.0007**	mg/L	5	10/02/2023 13:42	212596
Barium	NELAP	0.0007	0.0010		**0.0366**	mg/L	5	10/03/2023 9:45	212596
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:42	212596
Boron	NELAP	0.0092	0.0250		**5.80**	mg/L	5	10/02/2023 13:42	212596
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:42	212596
Chromium	NELAP	0.0007	0.0015		**0.0027**	mg/L	5	10/02/2023 13:42	212596
Cobalt	NELAP	0.0001	0.0010		**0.0011**	mg/L	5	10/02/2023 13:42	212596
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:42	212596
Lithium	*	0.0015	0.0030	J	**0.0025**	mg/L	5	10/03/2023 9:45	212596
Molybdenum	*	0.0006	0.0015	J	**0.0007**	mg/L	5	10/02/2023 13:42	212596
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:42	212596
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/02/2023 13:42	212596

CCV recovered outside the upper control limits for Be. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Laboratory Results

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

Client: Ramboll
Work Order: 23091473
Client Project: JOP-23Q3
Report Date: 16-Nov-23
Lab ID: 23091473-006
Client Sample ID: G07
Matrix: GROUNDWATER
Collection Date: 09/27/2023 11:57

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	J	**0.00006**	mg/L	1	10/03/2023 13:30	212711

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-007 **Client Sample ID:** G08

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 14:32

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**32.69**	ft	1	09/26/2023 14:32	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**40**	NTU	1	09/26/2023 14:32	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-92**	mV	1	09/26/2023 14:32	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**912**	µS/cm	1	09/26/2023 14:32	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.3**	°C	1	09/26/2023 14:32	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.65**	mg/L	1	09/26/2023 14:32	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**7.01**		1	09/26/2023 14:32	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**178**	mg/L	1	10/03/2023 10:46	R337243
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/03/2023 10:46	R337243
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**680**	mg/L	2.5	09/29/2023 9:51	R337238
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**320**	mg/L	10	10/03/2023 23:46	R337255
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.31**	mg/L	1	10/03/2023 11:25	R337213
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**14**	mg/L	1	10/03/2023 23:42	R337287
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**132**	mg/L	1	09/29/2023 22:09	212596
Magnesium	NELAP	0.0055	0.0500		**32.9**	mg/L	1	09/29/2023 22:09	212596
Potassium	NELAP	0.0400	0.100		**1.62**	mg/L	1	09/29/2023 22:09	212596
Sodium	NELAP	0.0180	0.0500		**38.4**	mg/L	1	09/29/2023 22:09	212596
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:48	212596
Arsenic	NELAP	0.0004	0.0010		**0.0086**	mg/L	5	10/02/2023 13:48	212596
Barium	NELAP	0.0007	0.0010		**0.0333**	mg/L	5	10/03/2023 9:51	212596
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:48	212596
Boron	NELAP	0.0092	0.0250		**6.30**	mg/L	5	10/02/2023 13:48	212596
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:48	212596
Chromium	NELAP	0.0007	0.0015		**0.0020**	mg/L	5	10/03/2023 9:51	212596
Cobalt	NELAP	0.0001	0.0010		**0.0037**	mg/L	5	10/02/2023 13:48	212596
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:48	212596
Lithium	*	0.0015	0.0030	J	**0.0021**	mg/L	5	10/03/2023 9:51	212596
Molybdenum	*	0.0006	0.0015		**0.0023**	mg/L	5	10/02/2023 13:48	212596
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:48	212596
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/02/2023 13:48	212596

CCV recovered outside the upper control limits for Be. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-007 **Client Sample ID:** G08

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 14:32

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	10/03/2023 13:37	212711

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-008 **Client Sample ID:** G09

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**41.48**	ft	1	09/26/2023 14:10	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**17**	NTU	1	09/26/2023 14:10	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**33**	mV	1	09/26/2023 14:10	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**789**	µS/cm	1	09/26/2023 14:10	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.7**	°C	1	09/26/2023 14:10	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.81**	mg/L	1	09/26/2023 14:10	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**6.24**		1	09/26/2023 14:10	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**119**	mg/L	1	10/03/2023 11:23	R337243
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/03/2023 11:23	R337243
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**500**	mg/L	2.5	09/29/2023 10:12	R337238
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**229**	mg/L	10	10/03/2023 23:54	R337255
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.31**	mg/L	1	10/03/2023 11:26	R337213
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**17**	mg/L	1	10/03/2023 23:50	R337287
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**64.8**	mg/L	1	09/29/2023 22:16	212596
Magnesium	NELAP	0.0055	0.0500		**26.1**	mg/L	1	09/29/2023 22:16	212596
Potassium	NELAP	0.0400	0.100		**0.926**	mg/L	1	09/29/2023 22:16	212596
Sodium	NELAP	0.0180	0.0500		**59.1**	mg/L	1	09/29/2023 22:16	212596
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:53	212596
Arsenic	NELAP	0.0004	0.0010		**0.0043**	mg/L	5	10/02/2023 13:53	212596
Barium	NELAP	0.0007	0.0010		**0.0271**	mg/L	5	10/03/2023 9:56	212596
Beryllium	NELAP	0.0002	0.0010	J	**0.0003**	mg/L	5	10/02/2023 13:53	212596
Boron	NELAP	0.0092	0.0250		**4.57**	mg/L	5	10/02/2023 13:53	212596
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:53	212596
Chromium	NELAP	0.0007	0.0015		**0.0021**	mg/L	5	10/03/2023 9:56	212596
Cobalt	NELAP	0.0001	0.0010		**0.0050**	mg/L	5	10/02/2023 13:53	212596
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:53	212596
Lithium	*	0.0015	0.0030		**0.0032**	mg/L	5	10/03/2023 9:56	212596
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	10/02/2023 13:53	212596
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:53	212596
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/02/2023 13:53	212596

CCV recovered outside the upper control limits for Be. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Laboratory Results

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

Client: Ramboll
Work Order: 23091473
Client Project: JOP-23Q3
Report Date: 16-Nov-23
Lab ID: 23091473-008
Client Sample ID: G09
Matrix: GROUNDWATER
Collection Date: 09/26/2023 14:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	J	**0.00006**	mg/L	1	10/03/2023 13:39	212711

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-009 **Client Sample ID:** G10

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 13:31

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**41.80**	ft	1	09/26/2023 13:31	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**16**	NTU	1	09/26/2023 13:31	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**65**	mV	1	09/26/2023 13:31	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1250**	µS/cm	1	09/26/2023 13:31	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.5**	°C	1	09/26/2023 13:31	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.47**	mg/L	1	09/26/2023 13:31	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**6.65**		1	09/26/2023 13:31	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**232**	mg/L	1	10/03/2023 11:35	R337243
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/03/2023 11:35	R337243
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**705**	mg/L	2.5	09/29/2023 10:13	R337238
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**356**	mg/L	10	10/04/2023 0:03	R337255
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.37**	mg/L	1	10/03/2023 11:28	R337213
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**24**	mg/L	1	10/03/2023 23:58	R337287
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**120**	mg/L	1	09/29/2023 22:18	212596
Magnesium	NELAP	0.0055	0.0500		**39.1**	mg/L	1	09/29/2023 22:18	212596
Potassium	NELAP	0.0400	0.100		**9.99**	mg/L	1	09/29/2023 22:18	212596
Sodium	NELAP	0.0180	0.0500		**86.9**	mg/L	1	09/29/2023 22:18	212596
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:59	212596
Arsenic	NELAP	0.0004	0.0010		**0.0037**	mg/L	5	10/02/2023 13:59	212596
Barium	NELAP	0.0007	0.0010		**0.0336**	mg/L	5	10/03/2023 11:10	212596
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:59	212596
Boron	NELAP	0.0092	0.0250		**3.41**	mg/L	5	10/02/2023 13:59	212596
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:59	212596
Chromium	NELAP	0.0007	0.0015	J	**0.0010**	mg/L	5	10/03/2023 11:10	212596
Cobalt	NELAP	0.0001	0.0010		**0.0021**	mg/L	5	10/03/2023 11:10	212596
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:59	212596
Lithium	*	0.0015	0.0030		**0.0041**	mg/L	5	10/03/2023 11:10	212596
Molybdenum	*	0.0006	0.0015		**0.0016**	mg/L	5	10/03/2023 11:10	212596
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 13:59	212596
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/02/2023 13:59	212596

CCV recovered outside the upper control limits for Be. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Laboratory Results

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

Client: Ramboll
Work Order: 23091473
Client Project: JOP-23Q3
Report Date: 16-Nov-23
Lab ID: 23091473-009
Client Sample ID: G10
Matrix: GROUNDWATER
Collection Date: 09/26/2023 13:31

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	J	**0.00007**	mg/L	1	10/03/2023 13:42	212711

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-015 **Client Sample ID:** G11

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 11:47

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**48.69**	ft	1	09/26/2023 11:47	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**8.9**	NTU	1	09/26/2023 11:47	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**98**	mV	1	09/26/2023 11:47	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**748**	µS/cm	1	09/26/2023 11:47	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.8**	°C	1	09/26/2023 11:47	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.76**	mg/L	1	09/26/2023 11:47	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**5.97**		1	09/26/2023 11:47	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**94**	mg/L	1	10/03/2023 13:45	R337243
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/03/2023 13:45	R337243
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**428**	mg/L	1	09/29/2023 10:14	R337238
SW-846 9036 (TOTAL)									
Sulfate	NELAP	63	100		**192**	mg/L	10	09/29/2023 23:17	R337145
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.16**	mg/L	1	09/27/2023 8:46	R336932
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**29**	mg/L	1	09/27/2023 20:31	R337023
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**59.9**	mg/L	1	09/30/2023 9:39	212544
Magnesium	NELAP	0.0055	0.0500		**21.3**	mg/L	1	09/30/2023 9:39	212544
Potassium	NELAP	0.0400	0.100		**1.01**	mg/L	1	09/30/2023 9:39	212544
Sodium	NELAP	0.0180	0.0500		**43.8**	mg/L	1	09/30/2023 9:39	212544
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 19:38	212544
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 19:38	212544
Barium	NELAP	0.0007	0.0010		**0.0231**	mg/L	5	09/29/2023 22:07	212544
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/29/2023 22:07	212544
Boron	NELAP	0.0092	0.0250		**0.308**	mg/L	5	09/29/2023 22:07	212544
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/29/2023 22:07	212544
Chromium	NELAP	0.0007	0.0015	J	**0.0007**	mg/L	5	10/02/2023 19:38	212544
Cobalt	NELAP	0.0001	0.0010	J	**0.0006**	mg/L	5	09/29/2023 22:07	212544
Lead	NELAP	0.0006	0.0010		**0.0027**	mg/L	5	09/29/2023 22:07	212544
Lithium	*	0.0015	0.0030		**0.0035**	mg/L	5	10/02/2023 19:38	212544
Molybdenum	*	0.0006	0.0015	J	**0.0007**	mg/L	5	09/29/2023 22:07	212544
Selenium	NELAP	0.0006	0.0010		**0.0019**	mg/L	5	10/02/2023 19:38	212544
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	09/29/2023 22:07	212544

CCV recovered outside the upper control limits for Be. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-015 **Client Sample ID:** G11

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 11:47

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	09/29/2023 16:10	212516

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-035 **Client Sample ID:** G51D

Matrix: GROUNDWATER **Collection Date:** 09/25/2023 15:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**45.38**	ft	1	09/25/2023 15:36	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**17**	NTU	1	09/25/2023 15:36	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**139**	mV	1	09/25/2023 15:36	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**426**	µS/cm	1	09/25/2023 15:36	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**18.4**	°C	1	09/25/2023 15:36	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.75**	mg/L	1	09/25/2023 15:36	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**5.45**		1	09/25/2023 15:36	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**55**	mg/L	1	10/04/2023 14:00	R337296
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/04/2023 14:00	R337296
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**292**	mg/L	1	09/28/2023 11:05	R337107
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100	SR	**127**	mg/L	10	09/27/2023 21:03	R337008
Matrix spike did not recover within control limits. Results verified by dilution.									
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10	J	**0.08**	mg/L	1	09/27/2023 8:48	R336932
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4	J	**4**	mg/L	1	09/27/2023 20:52	R337023
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**28.7**	mg/L	1	09/30/2023 9:41	212544
Magnesium	NELAP	0.0055	0.0500		**12.2**	mg/L	1	09/30/2023 9:41	212544
Potassium	NELAP	0.0400	0.100		**0.319**	mg/L	1	09/30/2023 9:41	212544
Sodium	NELAP	0.0180	0.0500		**32.7**	mg/L	1	09/30/2023 9:41	212544
Matrix spike control limits are not applicable due to high sample/spike ratio.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 18:53	212544
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 18:53	212544
Barium	NELAP	0.0007	0.0010		**0.0349**	mg/L	5	10/02/2023 18:53	212544
Beryllium	NELAP	0.0002	0.0010	S	**< 0.0010**	mg/L	5	09/29/2023 22:33	212544
Boron	NELAP	0.0165	0.0250	S	**0.899**	mg/L	5	10/10/2023 12:06	212976
Cadmium	NELAP	0.0002	0.0010	S	**< 0.0010**	mg/L	5	09/29/2023 22:33	212544
Chromium	NELAP	0.0007	0.0015		**0.0017**	mg/L	5	10/02/2023 18:53	212544
Cobalt	NELAP	0.0002	0.0010	J	**0.0008**	mg/L	5	10/02/2023 18:53	212544
Lead	NELAP	0.0006	0.0010	S	**< 0.0010**	mg/L	5	09/29/2023 22:33	212544
Lithium	*	0.0015	0.0030		**0.0058**	mg/L	5	10/02/2023 18:53	212544
Molybdenum	*	0.0006	0.0015	S	**< 0.0015**	mg/L	5	09/29/2023 22:33	212544
Selenium	NELAP	0.0006	0.0010		**0.0051**	mg/L	5	10/02/2023 18:53	212544
Thallium	NELAP	0.0010	0.0020	S	**< 0.0020**	mg/L	5	09/29/2023 22:33	212544

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-035 **Client Sample ID:** G51D

Matrix: GROUNDWATER **Collection Date:** 09/25/2023 15:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Matrix spike for B did not recover within control limits due to sample composition.									
Matrix spike for Fe did not recover within control limits due to sample composition.									
Matrix spike recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable.									
CCV recovered outside the upper control limits for Be. Sample results are below the reporting limit. Data is reportable per the TNI standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	09/29/2023 16:12	212516

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-036 **Client Sample ID:** G52D

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**28.81**	ft	1	09/26/2023 10:30	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**3.4**	NTU	1	09/26/2023 10:30	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**55**	mV	1	09/26/2023 10:30	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**462**	µS/cm	1	09/26/2023 10:30	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.9**	°C	1	09/26/2023 10:30	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.56**	mg/L	1	09/26/2023 10:30	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**6.34**		1	09/26/2023 10:30	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**162**	mg/L	1	10/03/2023 15:21	R337243
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/03/2023 15:21	R337243
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**282**	mg/L	1	09/29/2023 10:32	R337238
SW-846 9036 (TOTAL)									
Sulfate	NELAP	12	20		**52**	mg/L	2	09/27/2023 21:56	R337008
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.28**	mg/L	1	09/27/2023 8:51	R336932
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**11**	mg/L	1	09/27/2023 21:50	R337023
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**44.8**	mg/L	1	09/30/2023 9:45	212544
Magnesium	NELAP	0.0055	0.0500		**14.3**	mg/L	1	09/30/2023 9:45	212544
Potassium	NELAP	0.0400	0.100		**0.702**	mg/L	1	09/30/2023 9:45	212544
Sodium	NELAP	0.0180	0.0500		**26.2**	mg/L	1	09/30/2023 9:45	212544
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 19:44	212544
Arsenic	NELAP	0.0004	0.0010		**0.0015**	mg/L	5	10/02/2023 19:44	212544
Barium	NELAP	0.0007	0.0010		**0.250**	mg/L	5	09/29/2023 22:14	212544
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/29/2023 22:14	212544
Boron	NELAP	0.0092	0.025	J	**0.013**	mg/L	5	09/29/2023 22:14	212544
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/29/2023 22:14	212544
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	10/02/2023 19:44	212544
Cobalt	NELAP	0.0001	0.0010		**0.0042**	mg/L	5	09/29/2023 22:14	212544
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/29/2023 22:14	212544
Lithium	*	0.0015	0.0030	J	**0.0023**	mg/L	5	09/29/2023 22:14	212544
Molybdenum	*	0.0006	0.0015	J	**0.0009**	mg/L	5	09/29/2023 22:14	212544
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 19:44	212544
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	09/29/2023 22:14	212544

CCV recovered outside the upper control limits for Be and Li. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Laboratory Results

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Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-036 **Client Sample ID:** G52D

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 10:30

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	09/29/2023 16:15	212516

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-037 **Client Sample ID:** G53D

Matrix: GROUNDWATER **Collection Date:** 09/27/2023 9:31

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**39.36**	ft	1	09/27/2023 9:31	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**10**	NTU	1	09/27/2023 9:31	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-23**	mV	1	09/27/2023 9:31	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**489**	µS/cm	1	09/27/2023 9:31	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.0**	°C	1	09/27/2023 9:31	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.60**	mg/L	1	09/27/2023 9:31	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**6.46**		1	09/27/2023 9:31	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**177**	mg/L	1	10/03/2023 15:24	R337243
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/03/2023 15:24	R337243
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**330**	mg/L	1	10/02/2023 11:55	R337236
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**73**	mg/L	5	10/04/2023 0:16	R337255
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.76**	mg/L	1	10/03/2023 10:32	R337213
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**17**	mg/L	1	10/04/2023 0:11	R337287
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**35.9**	mg/L	1	10/03/2023 13:28	212717
Magnesium	NELAP	0.0055	0.0500		**15.9**	mg/L	1	10/03/2023 13:28	212717
Potassium	NELAP	0.0400	0.100		**0.285**	mg/L	1	10/03/2023 13:28	212717
Sodium	NELAP	0.0180	0.0500		**46.6**	mg/L	1	10/03/2023 13:28	212717
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/04/2023 16:49	212717
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/04/2023 16:49	212717
Barium	NELAP	0.0007	0.0010		**0.0910**	mg/L	5	10/04/2023 16:49	212717
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/04/2023 16:49	212717
Boron	NELAP	0.0092	0.0250		**0.371**	mg/L	5	10/04/2023 16:49	212717
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/04/2023 16:49	212717
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	10/04/2023 16:49	212717
Cobalt	NELAP	0.0001	0.0010		**0.0013**	mg/L	5	10/04/2023 16:49	212717
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/04/2023 16:49	212717
Lithium	*	0.0015	0.0030		**< 0.0030**	mg/L	5	10/04/2023 16:49	212717
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	10/04/2023 16:49	212717
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/04/2023 16:49	212717
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/04/2023 16:49	212717

Laboratory Results

Teklab, Inc.
Environmental Laboratory
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Client: Ramboll
Work Order: 23091473
Client Project: JOP-23Q3
Report Date: 16-Nov-23
Lab ID: 23091473-037
Client Sample ID: G53D
Matrix: GROUNDWATER
Collection Date: 09/27/2023 9:31

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	10/03/2023 13:01	212712

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-038 **Client Sample ID:** G54D

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 12:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**43.85**	ft	1	09/26/2023 12:35	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**7.8**	NTU	1	09/26/2023 12:35	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**38**	mV	1	09/26/2023 12:35	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**846**	µS/cm	1	09/26/2023 12:35	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.2**	°C	1	09/26/2023 12:35	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**3.04**	mg/L	1	09/26/2023 12:35	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**6.64**		1	09/26/2023 12:35	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**214**	mg/L	1	10/03/2023 15:27	R337243
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/03/2023 15:27	R337243
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**508**	mg/L	1	09/29/2023 10:32	R337238
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**180**	mg/L	10	09/27/2023 22:20	R337008
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.30**	mg/L	1	09/27/2023 8:53	R336932
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**20**	mg/L	1	09/27/2023 22:09	R337023
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**81.2**	mg/L	1	09/30/2023 9:47	212544
Magnesium	NELAP	0.0055	0.0500		**25.7**	mg/L	1	09/30/2023 9:47	212544
Potassium	NELAP	0.0400	0.100		**1.18**	mg/L	1	09/30/2023 9:47	212544
Sodium	NELAP	0.0180	0.0500		**48.3**	mg/L	1	09/30/2023 9:47	212544
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/02/2023 19:50	212544
Arsenic	NELAP	0.0004	0.0010	J	**0.0005**	mg/L	5	10/02/2023 19:50	212544
Barium	NELAP	0.0007	0.0010		**0.0739**	mg/L	5	09/29/2023 22:20	212544
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/29/2023 22:20	212544
Boron	NELAP	0.0092	0.0250		**0.404**	mg/L	5	09/29/2023 22:20	212544
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/29/2023 22:20	212544
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	10/02/2023 19:50	212544
Cobalt	NELAP	0.0001	0.0010		**0.0102**	mg/L	5	09/29/2023 22:20	212544
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/29/2023 22:20	212544
Lithium	*	0.0015	0.0030	J	**0.0028**	mg/L	5	09/29/2023 22:20	212544
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	09/29/2023 22:20	212544
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/02/2023 19:50	212544
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	09/29/2023 22:20	212544

CCV recovered outside the upper control limits for Be and Li. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Laboratory Results

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

Client: Ramboll
Work Order: 23091473
Client Project: JOP-23Q3
Report Date: 16-Nov-23
Lab ID: 23091473-038
Client Sample ID: G54D
Matrix: GROUNDWATER
Collection Date: 09/26/2023 12:35

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	09/29/2023 16:17	212516

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-042 **Client Sample ID:** XPW01

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 9:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**7.6**	NTU	1	09/26/2023 9:26	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-152**	mV	1	09/26/2023 9:26	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**937**	µS/cm	1	09/26/2023 9:26	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**18.1**	°C	1	09/26/2023 9:26	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.64**	mg/L	1	09/26/2023 9:26	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**8.18**		1	09/26/2023 9:26	R337257
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**670**	mg/L	2.5	09/29/2023 11:04	R337238
SW-846 9036 (TOTAL)									
Sulfate	NELAP	126	200		**365**	mg/L	20	09/30/2023 0:02	R337145
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.22**	mg/L	1	09/27/2023 9:07	R336932
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**16**	mg/L	1	09/27/2023 23:56	R337023
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**168**	mg/L	1	10/03/2023 13:55	212717
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/04/2023 17:02	212717
Arsenic	NELAP	0.0004	0.0010		**0.0264**	mg/L	5	10/04/2023 17:02	212717
Barium	NELAP	0.0007	0.0010		**0.126**	mg/L	5	10/04/2023 17:02	212717
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/04/2023 17:02	212717
Boron	NELAP	0.0092	0.0250		**10.7**	mg/L	5	10/04/2023 17:02	212717
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/04/2023 17:02	212717
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	10/04/2023 17:02	212717
Cobalt	NELAP	0.0001	0.0010	J	**0.0001**	mg/L	5	10/04/2023 17:02	212717
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/04/2023 17:02	212717
Lithium	*	0.0015	0.0030		**< 0.0030**	mg/L	5	10/04/2023 17:02	212717
Molybdenum	*	0.0006	0.0015		**0.306**	mg/L	5	10/04/2023 17:02	212717
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/04/2023 17:02	212717
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/04/2023 17:02	212717
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	09/29/2023 16:33	212516

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-043 **Client Sample ID:** XPW02

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 10:11

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**9.9**	NTU	1	09/26/2023 10:11	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-166**	mV	1	09/26/2023 10:11	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**4750**	µS/cm	1	09/26/2023 10:11	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.7**	°C	1	09/26/2023 10:11	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.51**	mg/L	1	09/26/2023 10:11	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**7.63**		1	09/26/2023 10:11	R337257
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**4400**	mg/L	2.5	09/29/2023 11:04	R337238
SW-846 9036 (TOTAL)									
Sulfate	NELAP	628	1000		**2580**	mg/L	100	09/30/2023 0:11	R337145
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.48**	mg/L	1	09/27/2023 9:09	R336932
SW-846 9251 (TOTAL)									
Chloride	NELAP	10	80		**86**	mg/L	20	09/28/2023 0:33	R337023
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**497**	mg/L	1	10/03/2023 13:57	212717
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:16	212717
Arsenic	NELAP	0.0004	0.0010		**0.0339**	mg/L	5	10/09/2023 14:15	212717
Barium	NELAP	0.0007	0.0010		**0.0198**	mg/L	5	10/04/2023 18:16	212717
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:16	212717
Boron	NELAP	0.0092	0.0250		**12.6**	mg/L	5	10/04/2023 18:16	212717
Cadmium	NELAP	0.0002	0.0010	J	**0.0003**	mg/L	5	10/04/2023 18:16	212717
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	10/04/2023 18:16	212717
Cobalt	NELAP	0.0001	0.0010		**< 0.0010**	mg/L	5	10/09/2023 14:15	212717
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:16	212717
Lithium	*	0.0015	0.0030		**0.0708**	mg/L	5	10/04/2023 18:16	212717
Molybdenum	*	0.0006	0.0015		**1.12**	mg/L	5	10/10/2023 10:12	212717
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:16	212717
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/04/2023 18:16	212717
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	09/29/2023 16:35	212516

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-044 **Client Sample ID:** XPW03

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 10:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**8.0**	NTU	1	09/26/2023 10:51	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-126**	mV	1	09/26/2023 10:51	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**663**	µS/cm	1	09/26/2023 10:51	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**18.5**	°C	1	09/26/2023 10:51	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.68**	mg/L	1	09/26/2023 10:51	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**10.8**		1	09/26/2023 10:51	R337257
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**386**	mg/L	1	09/29/2023 11:04	R337238
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**149**	mg/L	10	10/03/2023 13:00	R337255
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.29**	mg/L	1	09/27/2023 9:11	R336932
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**24**	mg/L	1	09/28/2023 0:44	R337023
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**11.8**	mg/L	1	10/03/2023 13:58	212717
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**0.0103**	mg/L	5	10/04/2023 18:22	212717
Arsenic	NELAP	0.0004	0.0010		**0.523**	mg/L	5	10/09/2023 14:21	212717
Barium	NELAP	0.0007	0.0010		**0.0115**	mg/L	5	10/04/2023 18:22	212717
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:22	212717
Boron	NELAP	0.0092	0.0250		**8.86**	mg/L	5	10/04/2023 18:22	212717
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:22	212717
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	10/04/2023 18:22	212717
Cobalt	NELAP	0.0001	0.0010		**< 0.0010**	mg/L	5	10/09/2023 14:21	212717
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:22	212717
Lithium	*	0.0015	0.0030		**0.164**	mg/L	5	10/04/2023 18:22	212717
Molybdenum	*	0.0006	0.0015		**0.259**	mg/L	5	10/10/2023 10:17	212717
Selenium	NELAP	0.0006	0.0010		**0.0253**	mg/L	5	10/04/2023 18:22	212717
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/04/2023 18:22	212717
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	09/29/2023 16:37	212516

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-046 **Client Sample ID:** Field Blank

Matrix: AQUEOUS **Collection Date:** 09/28/2023 11:16

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		**4**	mg/L	1	10/04/2023 9:52	R337296
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/04/2023 9:52	R337296
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20	J	**16**	mg/L	1	10/02/2023 13:06	R337236
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**< 10**	mg/L	1	10/04/2023 16:30	R337324
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**< 0.10**	mg/L	1	10/03/2023 11:58	R337213
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**< 4**	mg/L	1	10/04/2023 16:30	R337334
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**< 0.100**	mg/L	1	10/03/2023 14:00	212717
Magnesium	NELAP	0.0055	0.0500		**< 0.0500**	mg/L	1	10/03/2023 14:00	212717
Potassium	NELAP	0.0400	0.100		**< 0.100**	mg/L	1	10/03/2023 14:00	212717
Sodium	NELAP	0.018	0.050	J	**0.037**	mg/L	1	10/03/2023 14:00	212717
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:28	212717
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/09/2023 14:26	212717
Barium	NELAP	0.0007	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:28	212717
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:28	212717
Boron	NELAP	0.0092	0.025	J	**0.022**	mg/L	5	10/04/2023 18:28	212717
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:28	212717
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	10/04/2023 18:28	212717
Cobalt	NELAP	0.0001	0.0010		**< 0.0010**	mg/L	5	10/09/2023 14:26	212717
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:28	212717
Lithium	*	0.0015	0.0030		**< 0.0030**	mg/L	5	10/04/2023 18:28	212717
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	10/10/2023 11:55	212717
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:28	212717
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/04/2023 18:28	212717
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/03/2023 13:03	212712

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-047 **Client Sample ID:** G52D Duplicate

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**28.81**	ft	1	09/26/2023 10:30	R337257
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**3.4**	NTU	1	09/26/2023 10:30	R337257
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**55**	mV	1	09/26/2023 10:30	R337257
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**462**	µS/cm	1	09/26/2023 10:30	R337257
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.9**	°C	1	09/26/2023 10:30	R337257
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.56**	mg/L	1	09/26/2023 10:30	R337257
SW-846 9040B FIELD									
pH	*	0	1.00		**6.34**		1	09/26/2023 10:30	R337257
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**164**	mg/L	1	10/03/2023 15:41	R337243
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/03/2023 15:41	R337243
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**314**	mg/L	1	09/29/2023 11:05	R337238
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**60**	mg/L	5	09/28/2023 1:06	R337008
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.27**	mg/L	1	09/27/2023 9:13	R336932
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**11**	mg/L	1	09/28/2023 1:00	R337023
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100	S	**44.8**	mg/L	1	10/03/2023 14:01	212717
Magnesium	NELAP	0.0055	0.0500		**14.4**	mg/L	1	10/03/2023 14:01	212717
Potassium	NELAP	0.0400	0.100		**0.717**	mg/L	1	10/03/2023 14:01	212717
Sodium	NELAP	0.0180	0.0500		**26.5**	mg/L	1	10/03/2023 14:01	212717
Matrix spike control limits are not applicable due to high sample/spike ratio.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:40	212717
Arsenic	NELAP	0.0004	0.0010		**0.0013**	mg/L	5	10/09/2023 13:30	212717
Barium	NELAP	0.0007	0.0010		**0.242**	mg/L	5	10/04/2023 18:40	212717
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:40	212717
Boron	NELAP	0.0092	0.0250		**0.0314**	mg/L	5	10/04/2023 18:40	212717
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:40	212717
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	10/04/2023 18:40	212717
Cobalt	NELAP	0.0001	0.0010		**0.0032**	mg/L	5	10/09/2023 13:30	212717
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:40	212717
Lithium	*	0.0015	0.0030	J	**0.0026**	mg/L	5	10/04/2023 18:40	212717
Molybdenum	*	0.0006	0.0015	J	**0.0013**	mg/L	5	10/10/2023 10:23	212717
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	10/04/2023 18:40	212717
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	10/04/2023 18:40	212717

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Lab ID: 23091473-047 **Client Sample ID:** G52D Duplicate

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
RPD for MS/MSD was outside control limits due to sample composition.									
Matrix spike did not recover within control limits due to sample composition.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	09/29/2023 16:39	212516

Teklab, Inc. Environmental Laboratory

Sample Summary

Client: Ramboll
Client Project: JOP-23Q3

Work Order: 23091473
Report Date: 16-Nov-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23091473-001	G01D	Groundwater	6	09/25/2023 13:07
23091473-002	G02D	Groundwater	6	09/25/2023 14:06
23091473-003	G03	Groundwater	6	09/26/2023 12:35
23091473-004	G05	Groundwater	6	09/27/2023 10:14
23091473-005	G06	Groundwater	6	09/27/2023 11:16
23091473-006	G07	Groundwater	6	09/27/2023 11:57
23091473-007	G08	Groundwater	6	09/26/2023 14:32
23091473-008	G09	Groundwater	6	09/26/2023 14:10
23091473-009	G10	Groundwater	6	09/26/2023 13:31
23091473-015	G11	Groundwater	6	09/26/2023 11:47
23091473-035	G51D	Groundwater	6	09/25/2023 15:36
23091473-036	G52D	Groundwater	6	09/26/2023 10:30
23091473-037	G53D	Groundwater	6	09/27/2023 9:31
23091473-038	G54D	Groundwater	6	09/26/2023 12:35
23091473-039	SG02	Groundwater	1	
23091473-042	XPW01	Groundwater	6	09/26/2023 9:26
23091473-043	XPW02	Groundwater	6	09/26/2023 10:11
23091473-044	XPW03	Groundwater	6	09/26/2023 10:51
23091473-045	XSG01	Groundwater	1	09/25/2023 0:00
23091473-046	Field Blank	Aqueous	6	09/28/2023 11:16
23091473-047	G52D Duplicate	Groundwater	6	09/26/2023 10:30

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
23091473-001A	G01D	09/25/2023 13:07	09/26/2023 16:00		
	Ferrous Iron by CHEMets Kit				09/25/2023 13:07
	Field Elevation Measurements				09/25/2023 13:07
	Standard Methods 2130 B Field				09/25/2023 13:07
	Standard Methods 18th Ed. 2580 B Field				09/25/2023 13:07
	Standard Methods 2320 B (Total) 1997, 2011				09/27/2023 14:55
	Standard Methods 2320 B 1997, 2011				09/27/2023 14:55
	Standard Methods 2510 B Field				09/25/2023 13:07
	Standard Methods 2540 C (Total) 1997, 2011				09/28/2023 11:04
	Standard Methods 2550 B Field				09/25/2023 13:07
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/26/2023 21:40
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 13:27
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 13:27
	Standard Methods 4500-O G Field				09/25/2023 13:07
	Standard Methods 4500-P E 1999				09/27/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/27/2023 11:02
	SW-846 9036 (Total)				09/27/2023 20:09
	SW-846 9040B Field				09/25/2023 13:07
	SW-846 9214 (Total)				09/27/2023 8:41
	SW-846 9251 (Total)				09/27/2023 20:09
23091473-001B	G01D	09/25/2023 13:07	09/26/2023 16:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				09/27/2023 14:56
	Standard Methods 2320 B (Dissolved) 1997, 2011				09/27/2023 14:56
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/26/2023 21:36
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 13:30
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 13:30
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/27/2023 11:03
	Standard Methods 4500-P E (Dissolved) 1999				09/27/2023 0:00
	SW-846 9036 (Dissolved)				09/27/2023 20:12
	SW-846 9251 (Dissolved)				09/27/2023 20:12
23091473-001C	G01D	09/25/2023 13:07	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/27/2023 22:04	09/30/2023 9:34
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	09/29/2023 21:23
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	10/02/2023 18:34
	SW-846 7470A (Total)			09/27/2023 11:50	09/29/2023 16:03
23091473-001D	G01D	09/25/2023 13:07	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 8:59	10/02/2023 20:54

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/03/2023 14:22
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/05/2023 10:43
23091473-001E	G01D	09/25/2023 13:07	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 15:35
23091473-001F	G01D	09/25/2023 13:07	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 18:29
23091473-002A	G02D	09/25/2023 14:06	09/26/2023 16:00		
	Ferrous Iron by CHEMets Kit				09/25/2023 14:06
	Field Elevation Measurements				09/25/2023 14:06
	Standard Methods 2130 B Field				09/25/2023 14:06
	Standard Methods 18th Ed. 2580 B Field				09/25/2023 14:06
	Standard Methods 2320 B (Total) 1997, 2011				09/27/2023 15:02
	Standard Methods 2320 B 1997, 2011				09/27/2023 15:02
	Standard Methods 2510 B Field				09/25/2023 14:06
	Standard Methods 2540 C (Total) 1997, 2011				09/28/2023 11:05
	Standard Methods 2550 B Field				09/25/2023 14:06
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/26/2023 21:40
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 12:57
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 12:57
	Standard Methods 4500-O G Field				09/25/2023 14:06
	Standard Methods 4500-P E 1999				09/27/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/27/2023 11:04
	SW-846 9036 (Total)				09/27/2023 20:15
	SW-846 9040B Field				09/25/2023 14:06
	SW-846 9214 (Total)				09/27/2023 8:42
	SW-846 9251 (Total)				09/27/2023 20:15
23091473-002B	G02D	09/25/2023 14:06	09/26/2023 16:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				09/27/2023 15:05
	Standard Methods 2320 B (Dissolved) 1997, 2011				09/27/2023 15:05
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/26/2023 21:37
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 13:38
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 13:38
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/27/2023 11:05
	Standard Methods 4500-P E (Dissolved) 1999				09/27/2023 0:00
	SW-846 9036 (Dissolved)				09/27/2023 20:20
	SW-846 9251 (Dissolved)				09/27/2023 20:20
23091473-002C	G02D	09/25/2023 14:06	09/26/2023 16:00		

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/27/2023 22:04	09/30/2023 9:36
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	09/29/2023 21:29
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	10/02/2023 18:40
	SW-846 7470A (Total)			09/27/2023 11:50	09/29/2023 16:06
23091473-002D	G02D	09/25/2023 14:06	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 8:59	10/02/2023 20:55
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/03/2023 14:28
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/05/2023 10:47
23091473-002E	G02D	09/25/2023 14:06	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 15:53
23091473-002F	G02D	09/25/2023 14:06	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 18:35
23091473-003A	G03	09/26/2023 12:35	09/26/2023 16:00		
	Ferrous Iron by CHEMets Kit				09/26/2023 12:35
	Field Elevation Measurements				09/26/2023 12:35
	Standard Methods 2130 B Field				09/26/2023 12:35
	Standard Methods 18th Ed. 2580 B Field				09/26/2023 12:35
	Standard Methods 2320 B (Total) 1997, 2011				09/27/2023 15:09
	Standard Methods 2320 B 1997, 2011				09/27/2023 15:09
	Standard Methods 2510 B Field				09/26/2023 12:35
	Standard Methods 2540 C (Total) 1997, 2011				09/29/2023 9:50
	Standard Methods 2550 B Field				09/26/2023 12:35
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/26/2023 21:41
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 14:25
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 14:25
	Standard Methods 4500-O G Field				09/26/2023 12:35
	Standard Methods 4500-P E 1999				09/27/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/27/2023 11:06
	SW-846 9036 (Total)				09/29/2023 23:09
	SW-846 9040B Field				09/26/2023 12:35
	SW-846 9214 (Total)				09/27/2023 8:44
	SW-846 9251 (Total)				09/27/2023 20:23
23091473-003B	G03	09/26/2023 12:35	09/26/2023 16:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				09/27/2023 15:11
	Standard Methods 2320 B (Dissolved) 1997, 2011				09/27/2023 15:11
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/26/2023 21:38
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 10:20

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 10:20
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/27/2023 11:07
	Standard Methods 4500-P E (Dissolved) 1999				09/27/2023 0:00
	SW-846 9036 (Dissolved)				09/29/2023 23:12
	SW-846 9251 (Dissolved)				09/27/2023 20:25
23091473-003C	G03	09/26/2023 12:35	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/27/2023 22:04	09/30/2023 9:37
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	09/29/2023 21:35
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	10/02/2023 18:47
	SW-846 7470A (Total)			09/27/2023 11:50	09/29/2023 16:08
23091473-003D	G03	09/26/2023 12:35	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 8:59	10/02/2023 20:57
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/03/2023 15:19
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/05/2023 10:51
23091473-003E	G03	09/26/2023 12:35	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 15:59
23091473-003F	G03	09/26/2023 12:35	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 18:41
23091473-004A	G05	09/27/2023 10:14	09/27/2023 18:42		
	Ferrous Iron by CHEMets Kit				09/27/2023 10:14
	Field Elevation Measurements				09/27/2023 10:14
	Standard Methods 2130 B Field				09/27/2023 10:14
	Standard Methods 18th Ed. 2580 B Field				09/27/2023 10:14
	Standard Methods 2320 B (Total) 1997, 2011				10/03/2023 10:04
	Standard Methods 2320 B 1997, 2011				10/03/2023 10:04
	Standard Methods 2510 B Field				09/27/2023 10:14
	Standard Methods 2540 C (Total) 1997, 2011				10/02/2023 10:28
	Standard Methods 2550 B Field				09/27/2023 10:14
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/28/2023 17:03
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 11:48
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 11:48
	Standard Methods 4500-O G Field				09/27/2023 10:14
	Standard Methods 4500-P E 1999				09/28/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/28/2023 12:35
	SW-846 9036 (Total)				10/03/2023 22:53
	SW-846 9040B Field				09/27/2023 10:14
	SW-846 9214 (Total)				10/03/2023 11:20

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 9251 (Total)				10/03/2023 22:48
23091473-004B	G05	09/27/2023 10:14	09/27/2023 18:42		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/02/2023 15:24
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/02/2023 15:24
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/28/2023 17:13
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 12:45
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 12:45
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/28/2023 12:35
	Standard Methods 4500-P E (Dissolved) 1999				09/28/2023 0:00
	SW-846 9036 (Dissolved)				10/03/2023 13:23
	SW-846 9251 (Dissolved)				10/03/2023 13:18
23091473-004C	G05	09/27/2023 10:14	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/28/2023 18:43	09/29/2023 21:57
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/28/2023 18:43	10/02/2023 18:36
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/28/2023 18:43	10/02/2023 13:31
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/28/2023 18:43	10/03/2023 9:28
	SW-846 7470A (Total)			10/02/2023 14:03	10/03/2023 13:26
23091473-004D	G05	09/27/2023 10:14	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 9:00	10/02/2023 20:58
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 9:00	10/03/2023 15:24
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 9:00	10/05/2023 10:55
23091473-004E	G05	09/27/2023 10:14	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 17:42
23091473-004F	G05	09/27/2023 10:14	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 13:05
23091473-005A	G06	09/27/2023 11:16	09/27/2023 18:42		
	Ferrous Iron by CHEMets Kit				09/27/2023 11:16
	Field Elevation Measurements				09/27/2023 11:16
	Standard Methods 2130 B Field				09/27/2023 11:16
	Standard Methods 18th Ed. 2580 B Field				09/27/2023 11:16
	Standard Methods 2320 B (Total) 1997, 2011				10/03/2023 10:16
	Standard Methods 2320 B 1997, 2011				10/03/2023 10:16
	Standard Methods 2510 B Field				09/27/2023 11:16
	Standard Methods 2540 C (Total) 1997, 2011				10/02/2023 10:28
	Standard Methods 2550 B Field				09/27/2023 11:16
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/28/2023 17:04
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 11:50

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 11:50
	Standard Methods 4500-O G Field				09/27/2023 11:16
	Standard Methods 4500-P E 1999				09/28/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/28/2023 12:39
	SW-846 9036 (Total)				10/03/2023 23:02
	SW-846 9040B Field				09/27/2023 11:16
	SW-846 9214 (Total)				10/03/2023 11:21
	SW-846 9251 (Total)				10/03/2023 22:56
23091473-005B	G06	09/27/2023 11:16	09/27/2023 18:42		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/02/2023 15:28
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/02/2023 15:28
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/28/2023 17:07
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 12:47
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 12:47
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/28/2023 12:39
	Standard Methods 4500-P E (Dissolved) 1999				09/28/2023 0:00
	SW-846 9036 (Dissolved)				10/03/2023 13:31
	SW-846 9251 (Dissolved)				10/03/2023 13:26
23091473-005C	G06	09/27/2023 11:16	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/28/2023 18:43	09/29/2023 21:59
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/28/2023 18:43	10/02/2023 18:38
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/28/2023 18:43	10/02/2023 13:37
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/28/2023 18:43	10/03/2023 9:33
	SW-846 7470A (Total)			10/02/2023 14:03	10/03/2023 13:28
23091473-005D	G06	09/27/2023 11:16	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 9:00	10/02/2023 21:00
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 9:00	10/03/2023 15:30
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 9:00	10/05/2023 10:59
23091473-005E	G06	09/27/2023 11:16	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 18:00
23091473-005F	G06	09/27/2023 11:16	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 13:11
23091473-006A	G07	09/27/2023 11:57	09/27/2023 18:42		
	Ferrous Iron by CHEMets Kit				09/27/2023 11:57
	Field Elevation Measurements				09/27/2023 11:57
	Standard Methods 2130 B Field				09/27/2023 11:57
	Standard Methods 18th Ed. 2580 B Field				09/27/2023 11:57

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 2320 B (Total) 1997, 2011				10/03/2023 10:30
	Standard Methods 2320 B 1997, 2011				10/03/2023 10:30
	Standard Methods 2510 B Field				09/27/2023 11:57
	Standard Methods 2540 C (Total) 1997, 2011				10/02/2023 10:28
	Standard Methods 2550 B Field				09/27/2023 11:57
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/28/2023 17:03
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 11:53
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 11:53
	Standard Methods 4500-O G Field				09/27/2023 11:57
	Standard Methods 4500-P E 1999				09/28/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/28/2023 13:38
	SW-846 9036 (Total)				10/03/2023 23:18
	SW-846 9040B Field				09/27/2023 11:57
	SW-846 9214 (Total)				10/03/2023 11:23
	SW-846 9251 (Total)				10/03/2023 23:07
23091473-006B	G07	09/27/2023 11:57	09/27/2023 18:42		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/02/2023 15:31
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/02/2023 15:31
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/28/2023 17:07
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 13:03
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 13:03
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/28/2023 13:39
	Standard Methods 4500-P E (Dissolved) 1999				09/28/2023 0:00
	SW-846 9036 (Dissolved)				10/03/2023 14:01
	SW-846 9251 (Dissolved)				10/03/2023 13:34
23091473-006C	G07	09/27/2023 11:57	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/28/2023 18:43	09/29/2023 22:08
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/28/2023 18:43	10/02/2023 18:39
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/28/2023 18:43	10/02/2023 13:42
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/28/2023 18:43	10/03/2023 9:45
	SW-846 7470A (Total)			10/02/2023 14:03	10/03/2023 13:30
23091473-006D	G07	09/27/2023 11:57	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 9:00	10/02/2023 21:11
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 9:00	10/03/2023 15:36
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 9:00	10/05/2023 11:43
23091473-006E	G07	09/27/2023 11:57	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 18:06

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
23091473-006F	G07	09/27/2023 11:57	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 13:17
23091473-007A	G08	09/26/2023 14:32	09/27/2023 18:42		
	Ferrous Iron by CHEMets Kit				09/26/2023 14:32
	Field Elevation Measurements				09/26/2023 14:32
	Standard Methods 2130 B Field				09/26/2023 14:32
	Standard Methods 18th Ed. 2580 B Field				09/26/2023 14:32
	Standard Methods 2320 B (Total) 1997, 2011				10/03/2023 10:46
	Standard Methods 2320 B 1997, 2011				10/03/2023 10:46
	Standard Methods 2510 B Field				09/26/2023 14:32
	Standard Methods 2540 C (Total) 1997, 2011				09/29/2023 9:51
	Standard Methods 2550 B Field				09/26/2023 14:32
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/28/2023 10:22
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 10:27
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 10:27
	Standard Methods 4500-O G Field				09/26/2023 14:32
	Standard Methods 4500-P E 1999				09/28/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/28/2023 12:22
	SW-846 9036 (Total)				10/03/2023 23:46
	SW-846 9040B Field				09/26/2023 14:32
	SW-846 9214 (Total)				10/03/2023 11:25
	SW-846 9251 (Total)				10/03/2023 23:42
23091473-007B	G08	09/26/2023 14:32	09/27/2023 18:42		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/02/2023 15:37
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/02/2023 15:37
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/28/2023 10:23
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 10:51
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 10:51
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/28/2023 12:23
	Standard Methods 4500-P E (Dissolved) 1999				09/28/2023 0:00
	SW-846 9036 (Dissolved)				10/03/2023 14:16
	SW-846 9251 (Dissolved)				10/03/2023 14:11
23091473-007C	G08	09/26/2023 14:32	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/28/2023 18:43	09/29/2023 22:09
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/28/2023 18:43	10/02/2023 18:41
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/28/2023 18:43	10/02/2023 13:48
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/28/2023 18:43	10/03/2023 9:51

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 7470A (Total)			10/02/2023 14:03	10/03/2023 13:37
23091473-007D	G08	09/26/2023 14:32	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 8:59	10/02/2023 21:13
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/03/2023 15:41
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/05/2023 11:47
23091473-007E	G08	09/26/2023 14:32	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 18:11
23091473-007F	G08	09/26/2023 14:32	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 13:24
23091473-008A	G09	09/26/2023 14:10	09/27/2023 18:42		
	Ferrous Iron by CHEMets Kit				09/26/2023 14:10
	Field Elevation Measurements				09/26/2023 14:10
	Standard Methods 2130 B Field				09/26/2023 14:10
	Standard Methods 18th Ed. 2580 B Field				09/26/2023 14:10
	Standard Methods 2320 B (Total) 1997, 2011				10/03/2023 11:23
	Standard Methods 2320 B 1997, 2011				10/03/2023 11:23
	Standard Methods 2510 B Field				09/26/2023 14:10
	Standard Methods 2540 C (Total) 1997, 2011				09/29/2023 10:12
	Standard Methods 2550 B Field				09/26/2023 14:10
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/28/2023 10:22
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 10:25
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 10:25
	Standard Methods 4500-O G Field				09/26/2023 14:10
	Standard Methods 4500-P E 1999				09/28/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/28/2023 12:27
	SW-846 9036 (Total)				10/03/2023 23:54
	SW-846 9040B Field				09/26/2023 14:10
	SW-846 9214 (Total)				10/03/2023 11:26
	SW-846 9251 (Total)				10/03/2023 23:50
23091473-008B	G09	09/26/2023 14:10	09/27/2023 18:42		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/02/2023 15:39
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/02/2023 15:39
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/28/2023 10:23
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 10:31
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 10:31
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/28/2023 12:27
	Standard Methods 4500-P E (Dissolved) 1999				09/28/2023 0:00

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 9036 (Dissolved)				10/03/2023 14:24
	SW-846 9251 (Dissolved)				10/03/2023 14:19
23091473-008C	G09	09/26/2023 14:10	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/28/2023 18:43	09/29/2023 22:16
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/28/2023 18:43	10/02/2023 18:42
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/28/2023 18:43	10/02/2023 13:53
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/28/2023 18:43	10/03/2023 9:56
	SW-846 7470A (Total)			10/02/2023 14:03	10/03/2023 13:39
23091473-008D	G09	09/26/2023 14:10	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 8:59	10/02/2023 21:14
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/03/2023 15:47
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/05/2023 11:51
23091473-008E	G09	09/26/2023 14:10	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 18:18
23091473-008F	G09	09/26/2023 14:10	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 13:29
23091473-009A	G10	09/26/2023 13:31	09/27/2023 18:42		
	Ferrous Iron by CHEMets Kit				09/26/2023 13:31
	Field Elevation Measurements				09/26/2023 13:31
	Standard Methods 2130 B Field				09/26/2023 13:31
	Standard Methods 18th Ed. 2580 B Field				09/26/2023 13:31
	Standard Methods 2320 B (Total) 1997, 2011				10/03/2023 11:35
	Standard Methods 2320 B 1997, 2011				10/03/2023 11:35
	Standard Methods 2510 B Field				09/26/2023 13:31
	Standard Methods 2540 C (Total) 1997, 2011				09/29/2023 10:13
	Standard Methods 2550 B Field				09/26/2023 13:31
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/28/2023 10:21
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 10:22
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 10:22
	Standard Methods 4500-O G Field				09/26/2023 13:31
	Standard Methods 4500-P E 1999				09/28/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/28/2023 12:29
	SW-846 9036 (Total)				10/04/2023 0:03
	SW-846 9040B Field				09/26/2023 13:31
	SW-846 9214 (Total)				10/03/2023 11:28
	SW-846 9251 (Total)				10/03/2023 23:58
23091473-009B	G10	09/26/2023 13:31	09/27/2023 18:42		

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/02/2023 15:44
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/02/2023 15:44
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/28/2023 10:22
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 10:29
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 10:29
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/28/2023 12:30
	Standard Methods 4500-P E (Dissolved) 1999				09/28/2023 0:00
	SW-846 9036 (Dissolved)				10/03/2023 14:46
	SW-846 9251 (Dissolved)				10/03/2023 14:27
23091473-009C	G10	09/26/2023 13:31	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/28/2023 18:43	09/29/2023 22:18
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/28/2023 18:43	10/02/2023 18:53
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/28/2023 18:43	10/02/2023 13:59
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/28/2023 18:43	10/03/2023 11:10
	SW-846 7470A (Total)			10/02/2023 14:03	10/03/2023 13:42
23091473-009D	G10	09/26/2023 13:31	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 8:59	10/02/2023 21:16
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/03/2023 15:52
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/05/2023 11:55
23091473-009E	G10	09/26/2023 13:31	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 18:24
23091473-009F	G10	09/26/2023 13:31	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 13:35
23091473-015A	G11	09/26/2023 11:47	09/26/2023 16:00		
	Ferrous Iron by CHEMets Kit				09/26/2023 11:47
	Field Elevation Measurements				09/26/2023 11:47
	Standard Methods 2130 B Field				09/26/2023 11:47
	Standard Methods 18th Ed. 2580 B Field				09/26/2023 11:47
	Standard Methods 2320 B (Total) 1997, 2011				10/03/2023 13:45
	Standard Methods 2320 B 1997, 2011				10/03/2023 13:45
	Standard Methods 2510 B Field				09/26/2023 11:47
	Standard Methods 2540 C (Total) 1997, 2011				09/29/2023 10:14
	Standard Methods 2550 B Field				09/26/2023 11:47
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/27/2023 16:49
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 14:33
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 14:33
	Standard Methods 4500-O G Field				09/26/2023 11:47

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 4500-P E 1999				09/27/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/27/2023 11:41
	SW-846 9036 (Total)				09/29/2023 23:17
	SW-846 9040B Field				09/26/2023 11:47
	SW-846 9214 (Total)				09/27/2023 8:46
	SW-846 9251 (Total)				09/27/2023 20:31
23091473-015B	G11	09/26/2023 11:47	09/26/2023 16:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 13:53
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 13:53
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/27/2023 16:52
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 13:16
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 13:16
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/27/2023 11:42
	Standard Methods 4500-P E (Dissolved) 1999				09/27/2023 0:00
	SW-846 9036 (Dissolved)				09/29/2023 23:35
	SW-846 9251 (Dissolved)				09/27/2023 20:33
23091473-015C	G11	09/26/2023 11:47	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/27/2023 22:04	09/30/2023 9:39
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	09/29/2023 22:07
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	10/02/2023 19:38
	SW-846 7470A (Total)			09/27/2023 11:50	09/29/2023 16:10
23091473-015D	G11	09/26/2023 11:47	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 8:59	10/02/2023 21:17
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/03/2023 15:58
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/05/2023 11:59
23091473-015E	G11	09/26/2023 11:47	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 16:05
23091473-015F	G11	09/26/2023 11:47	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 18:47
23091473-035A	G51D	09/25/2023 15:36	09/26/2023 16:00		
	Ferrous Iron by CHEMets Kit				09/25/2023 15:36
	Field Elevation Measurements				09/25/2023 15:36
	Standard Methods 2130 B Field				09/25/2023 15:36
	Standard Methods 18th Ed. 2580 B Field				09/25/2023 15:36
	Standard Methods 2320 B (Total) 1997, 2011				10/04/2023 14:00
	Standard Methods 2320 B 1997, 2011				10/04/2023 14:00
	Standard Methods 2510 B Field				09/25/2023 15:36

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 2540 C (Total) 1997, 2011				09/28/2023 11:05
	Standard Methods 2550 B Field				09/25/2023 15:36
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/26/2023 21:41
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 12:59
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 12:59
	Standard Methods 4500-O G Field				09/25/2023 15:36
	Standard Methods 4500-P E 1999				09/27/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/27/2023 11:13
	SW-846 9036 (Total)				09/27/2023 21:03
	SW-846 9040B Field				09/25/2023 15:36
	SW-846 9214 (Total)				09/27/2023 8:48
	SW-846 9251 (Total)				09/27/2023 20:52
23091473-035B	G51D	09/25/2023 15:36	09/26/2023 16:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 14:03
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 14:03
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/26/2023 21:39
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 13:41
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 13:41
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/27/2023 11:13
	Standard Methods 4500-P E (Dissolved) 1999				09/27/2023 0:00
	SW-846 9036 (Dissolved)				09/27/2023 21:24
	SW-846 9251 (Dissolved)				09/27/2023 21:13
23091473-035C	G51D	09/25/2023 15:36	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/27/2023 22:04	09/30/2023 9:41
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	09/29/2023 22:33
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	10/02/2023 18:53
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	10/05/2023 11:03
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/09/2023 7:30	10/10/2023 12:06
	SW-846 7470A (Total)			09/27/2023 11:50	09/29/2023 16:12
23091473-035D	G51D	09/25/2023 15:36	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 8:59	10/02/2023 21:22
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/03/2023 16:44
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/05/2023 12:47
23091473-035E	G51D	09/25/2023 15:36	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 16:11
23091473-035F	G51D	09/25/2023 15:36	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 19:05

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Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
23091473-036A	G52D	09/26/2023 10:30	09/26/2023 16:00		
	Ferrous Iron by CHEMets Kit				09/26/2023 10:30
	Field Elevation Measurements				09/26/2023 10:30
	Standard Methods 2130 B Field				09/26/2023 10:30
	Standard Methods 18th Ed. 2580 B Field				09/26/2023 10:30
	Standard Methods 2320 B (Total) 1997, 2011				10/03/2023 15:21
	Standard Methods 2320 B 1997, 2011				10/03/2023 15:21
	Standard Methods 2510 B Field				09/26/2023 10:30
	Standard Methods 2540 C (Total) 1997, 2011				09/29/2023 10:32
	Standard Methods 2550 B Field				09/26/2023 10:30
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/27/2023 16:50
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 14:35
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 14:35
	Standard Methods 4500-O G Field				09/26/2023 10:30
	Standard Methods 4500-P E 1999				09/27/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/27/2023 11:14
	SW-846 9036 (Total)				09/27/2023 21:56
	SW-846 9040B Field				09/26/2023 10:30
	SW-846 9214 (Total)				09/27/2023 8:51
	SW-846 9251 (Total)				09/27/2023 21:50
23091473-036B	G52D	09/26/2023 10:30	09/26/2023 16:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 11:54
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 11:54
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/27/2023 16:53
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 13:19
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 13:19
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/27/2023 11:16
	Standard Methods 4500-P E (Dissolved) 1999				09/27/2023 0:00
	SW-846 9036 (Dissolved)				09/27/2023 22:04
	SW-846 9251 (Dissolved)				09/27/2023 21:59
23091473-036C	G52D	09/26/2023 10:30	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/27/2023 22:04	09/30/2023 9:45
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	09/29/2023 22:14
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	10/02/2023 19:44
	SW-846 7470A (Total)			09/27/2023 11:50	09/29/2023 16:15
23091473-036D	G52D	09/26/2023 10:30	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 8:59	10/02/2023 21:24

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/03/2023 16:49
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/05/2023 12:51
23091473-036E	G52D	09/26/2023 10:30	09/26/2023 16:00		
	SW-846 9060A				10/02/2023 12:23
23091473-036F	G52D	09/26/2023 10:30	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 19:11
23091473-037A	G53D	09/27/2023 9:31	09/27/2023 18:42		
	Ferrous Iron by CHEMets Kit				09/27/2023 9:31
	Field Elevation Measurements				09/27/2023 9:31
	Standard Methods 2130 B Field				09/27/2023 9:31
	Standard Methods 18th Ed. 2580 B Field				09/27/2023 9:31
	Standard Methods 2320 B (Total) 1997, 2011				10/03/2023 15:24
	Standard Methods 2320 B 1997, 2011				10/03/2023 15:24
	Standard Methods 2510 B Field				09/27/2023 9:31
	Standard Methods 2540 C (Total) 1997, 2011				10/02/2023 11:55
	Standard Methods 2550 B Field				09/27/2023 9:31
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/28/2023 17:06
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 12:43
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/28/2023 12:43
	Standard Methods 4500-O G Field				09/27/2023 9:31
	Standard Methods 4500-P E 1999				09/28/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/28/2023 14:58
	SW-846 9036 (Total)				10/04/2023 0:16
	SW-846 9040B Field				09/27/2023 9:31
	SW-846 9214 (Total)				10/03/2023 10:32
	SW-846 9251 (Total)				10/04/2023 0:11
23091473-037B	G53D	09/27/2023 9:31	09/27/2023 18:42		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 11:23
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 11:23
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/28/2023 17:13
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 13:47
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 13:47
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/28/2023 14:58
	Standard Methods 4500-P E (Dissolved) 1999				09/28/2023 0:00
	SW-846 9036 (Dissolved)				10/03/2023 19:02
	SW-846 9251 (Dissolved)				10/03/2023 18:56
23091473-037C	G53D	09/27/2023 9:31	09/27/2023 18:42		

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/02/2023 19:04	10/03/2023 13:28
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/04/2023 16:49
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/09/2023 13:19
	SW-846 7470A (Total)			10/02/2023 14:08	10/03/2023 13:01
23091473-037D	G53D	09/27/2023 9:31	09/27/2023 18:42		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 9:08	10/02/2023 22:48
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 9:08	10/04/2023 0:52
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 9:08	10/05/2023 13:56
23091473-037E	G53D	09/27/2023 9:31	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 22:23
23091473-037F	G53D	09/27/2023 9:31	09/27/2023 18:42		
	SW-846 9060A				10/02/2023 16:53
23091473-038A	G54D	09/26/2023 12:35	09/26/2023 16:00		
	Ferrous Iron by CHEMets Kit				09/26/2023 12:35
	Field Elevation Measurements				09/26/2023 12:35
	Standard Methods 2130 B Field				09/26/2023 12:35
	Standard Methods 18th Ed. 2580 B Field				09/26/2023 12:35
	Standard Methods 2320 B (Total) 1997, 2011				10/03/2023 15:27
	Standard Methods 2320 B 1997, 2011				10/03/2023 15:27
	Standard Methods 2510 B Field				09/26/2023 12:35
	Standard Methods 2540 C (Total) 1997, 2011				09/29/2023 10:32
	Standard Methods 2550 B Field				09/26/2023 12:35
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/27/2023 16:50
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 14:38
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 14:38
	Standard Methods 4500-O G Field				09/26/2023 12:35
	Standard Methods 4500-P E 1999				09/27/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/27/2023 11:24
	SW-846 9036 (Total)				09/27/2023 22:20
	SW-846 9040B Field				09/26/2023 12:35
	SW-846 9214 (Total)				09/27/2023 8:53
	SW-846 9251 (Total)				09/27/2023 22:09
23091473-038B	G54D	09/26/2023 12:35	09/26/2023 16:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 12:00
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 12:00
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/27/2023 16:53
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 13:56

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 13:56
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/27/2023 11:25
	Standard Methods 4500-P E (Dissolved) 1999				09/27/2023 0:00
	SW-846 9036 (Dissolved)				09/27/2023 22:57
	SW-846 9251 (Dissolved)				09/27/2023 22:46
23091473-038C	G54D	09/26/2023 12:35	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			09/27/2023 22:04	09/30/2023 9:47
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	09/29/2023 22:20
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/27/2023 22:04	10/02/2023 19:50
	SW-846 7470A (Total)			09/27/2023 11:50	09/29/2023 16:17
23091473-038D	G54D	09/26/2023 12:35	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 8:59	10/02/2023 21:44
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/03/2023 16:55
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/05/2023 13:32
23091473-038E	G54D	09/26/2023 12:35	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 17:05
23091473-038F	G54D	09/26/2023 12:35	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 19:17
23091473-042A	XPW01	09/26/2023 9:26	09/26/2023 16:00		
	Ferrous Iron by CHEMets Kit				09/26/2023 9:26
	Standard Methods 2130 B Field				09/26/2023 9:26
	Standard Methods 18th Ed. 2580 B Field				09/26/2023 9:26
	Standard Methods 2320 B (Total) 1997, 2011				10/04/2023 14:09
	Standard Methods 2320 B 1997, 2011				10/04/2023 14:09
	Standard Methods 2510 B Field				09/26/2023 9:26
	Standard Methods 2540 C (Total) 1997, 2011				09/29/2023 11:04
	Standard Methods 2550 B Field				09/26/2023 9:26
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/27/2023 16:51
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 14:44
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 14:44
	Standard Methods 4500-O G Field				09/26/2023 9:26
	Standard Methods 4500-P E 1999				09/27/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/27/2023 11:31
	SW-846 9036 (Total)				09/30/2023 0:02
	SW-846 9040B Field				09/26/2023 9:26
	SW-846 9214 (Total)				09/27/2023 9:07
	SW-846 9251 (Total)				09/27/2023 23:56

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
23091473-042B	XPW01	09/26/2023 9:26	09/26/2023 16:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 14:19
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 14:19
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/27/2023 16:53
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 9:01
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/28/2023 9:01
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/27/2023 11:32
	Standard Methods 4500-P E (Dissolved) 1999				09/27/2023 0:00
	SW-846 9036 (Dissolved)				09/30/2023 0:04
	SW-846 9251 (Dissolved)				09/28/2023 0:04
23091473-042C	XPW01	09/26/2023 9:26	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/02/2023 19:04	10/03/2023 13:55
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/02/2023 19:04	10/03/2023 18:33
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/04/2023 17:02
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/09/2023 14:10
	SW-846 7470A (Total)			09/27/2023 11:50	09/29/2023 16:33
23091473-042D	XPW01	09/26/2023 9:26	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 8:59	10/02/2023 21:58
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 8:59	10/03/2023 15:50
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/03/2023 17:12
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 8:59	10/05/2023 13:44
23091473-042E	XPW01	09/26/2023 9:26	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 17:23
23091473-042F	XPW01	09/26/2023 9:26	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 20:05
23091473-043A	XPW02	09/26/2023 10:11	09/26/2023 16:00		
	Ferrous Iron by CHEMets Kit				09/26/2023 10:11
	Standard Methods 2130 B Field				09/26/2023 10:11
	Standard Methods 18th Ed. 2580 B Field				09/26/2023 10:11
	Standard Methods 2320 B (Total) 1997, 2011				10/04/2023 14:23
	Standard Methods 2320 B 1997, 2011				10/04/2023 14:23
	Standard Methods 2510 B Field				09/26/2023 10:11
	Standard Methods 2540 C (Total) 1997, 2011				09/29/2023 11:04
	Standard Methods 2550 B Field				09/26/2023 10:11
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/27/2023 16:51
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 15:00
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 15:00

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 4500-O G Field				09/26/2023 10:11
	Standard Methods 4500-P E 1999				09/27/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/27/2023 11:33
	SW-846 9036 (Total)				09/30/2023 0:11
	SW-846 9040B Field				09/26/2023 10:11
	SW-846 9214 (Total)				09/27/2023 9:09
	SW-846 9251 (Total)				09/28/2023 0:33
23091473-043B	XPW02	09/26/2023 10:11	09/26/2023 16:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 14:26
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 14:26
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/27/2023 16:53
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 14:04
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 14:04
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/27/2023 11:34
	Standard Methods 4500-P E (Dissolved) 1999				09/27/2023 0:00
	SW-846 9036 (Dissolved)				09/30/2023 0:29
	SW-846 9251 (Dissolved)				09/28/2023 0:41
23091473-043C	XPW02	09/26/2023 10:11	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/02/2023 19:04	10/03/2023 13:57
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/02/2023 19:04	10/03/2023 18:35
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/04/2023 18:16
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/09/2023 14:15
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/10/2023 10:12
	SW-846 7470A (Total)			09/27/2023 11:50	09/29/2023 16:35
23091473-043D	XPW02	09/26/2023 10:11	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 10:25	10/02/2023 19:06
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 10:25	10/03/2023 18:38
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 10:25	10/04/2023 15:36
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 10:25	10/05/2023 12:55
23091473-043E	XPW02	09/26/2023 10:11	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 17:29
23091473-043F	XPW02	09/26/2023 10:11	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 20:11
23091473-044A	XPW03	09/26/2023 10:51	09/26/2023 16:00		
	Ferrous Iron by CHEMets Kit				09/26/2023 10:51
	Standard Methods 2130 B Field				09/26/2023 10:51
	Standard Methods 18th Ed. 2580 B Field				09/26/2023 10:51

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 2320 B (Total) 1997, 2011				10/04/2023 14:49
	Standard Methods 2320 B 1997, 2011				10/04/2023 14:49
	Standard Methods 2510 B Field				09/26/2023 10:51
	Standard Methods 2540 C (Total) 1997, 2011				09/29/2023 11:04
	Standard Methods 2550 B Field				09/26/2023 10:51
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/27/2023 16:51
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 15:02
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 15:02
	Standard Methods 4500-O G Field				09/26/2023 10:51
	Standard Methods 4500-P E 1999				09/27/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/27/2023 11:35
	SW-846 9036 (Total)				10/03/2023 13:00
	SW-846 9040B Field				09/26/2023 10:51
	SW-846 9214 (Total)				09/27/2023 9:11
	SW-846 9251 (Total)				09/28/2023 0:44
23091473-044B	XPW03	09/26/2023 10:51	09/26/2023 16:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 14:33
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 14:33
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/27/2023 16:54
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 14:06
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 14:06
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/27/2023 11:36
	Standard Methods 4500-P E (Dissolved) 1999				09/27/2023 0:00
	SW-846 9036 (Dissolved)				09/30/2023 0:37
	SW-846 9251 (Dissolved)				09/28/2023 0:52
23091473-044C	XPW03	09/26/2023 10:51	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/02/2023 19:04	10/03/2023 13:58
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/02/2023 19:04	10/03/2023 18:36
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/04/2023 18:22
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/09/2023 14:21
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/10/2023 10:17
	SW-846 7470A (Total)			09/27/2023 11:50	09/29/2023 16:37
23091473-044D	XPW03	09/26/2023 10:51	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 10:25	10/02/2023 19:17
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 10:25	10/03/2023 18:39
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 10:25	10/04/2023 1:40
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 10:25	10/04/2023 14:09

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID / Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
23091473-044E	XPW03	09/26/2023 10:51	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 17:47
23091473-044F	XPW03	09/26/2023 10:51	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 20:17
23091473-046A	Field Blank	09/28/2023 11:16	09/28/2023 15:05		
	Standard Methods 2320 B (Total) 1997, 2011				10/04/2023 9:52
	Standard Methods 2320 B 1997, 2011				10/04/2023 9:52
	Standard Methods 2540 C (Total) 1997, 2011				10/02/2023 13:06
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/29/2023 15:57
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/29/2023 15:05
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/29/2023 15:05
	Standard Methods 4500-P E 1999				09/29/2023 13:51
	Standard Methods 4500-P E 1999, 2011				09/29/2023 10:02
	SW-846 9036 (Total)				10/04/2023 16:30
	SW-846 9214 (Total)				10/03/2023 11:58
	SW-846 9251 (Total)				10/04/2023 16:30
23091473-046B	Field Blank	09/28/2023 11:16	09/28/2023 15:05		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 11:30
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 11:30
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/29/2023 15:59
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/29/2023 15:51
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/29/2023 15:51
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/29/2023 10:02
	Standard Methods 4500-P E (Dissolved) 1999				09/29/2023 13:51
	SW-846 9036 (Dissolved)				10/03/2023 19:20
	SW-846 9251 (Dissolved)				10/03/2023 19:20
23091473-046C	Field Blank	09/28/2023 11:16	09/28/2023 15:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/02/2023 19:04	10/03/2023 14:00
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/04/2023 18:28
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/09/2023 14:26
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/10/2023 11:55
	SW-846 7470A (Total)			10/02/2023 14:08	10/03/2023 13:03
23091473-046D	Field Blank	09/28/2023 11:16	09/28/2023 15:05		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 9:08	10/02/2023 22:53
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 9:08	10/04/2023 15:17
23091473-046E	Field Blank	09/28/2023 11:16	09/28/2023 15:05		
	SW-846 9060A				10/02/2023 22:29

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
23091473-046F	Field Blank	09/28/2023 11:16	09/28/2023 15:05		
	SW-846 9060A				10/02/2023 17:30
23091473-047A	G52D Duplicate	09/26/2023 10:30	09/26/2023 16:00		
	Ferrous Iron by CHEMets Kit				09/26/2023 10:30
	Field Elevation Measurements				09/26/2023 10:30
	Standard Methods 2130 B Field				09/26/2023 10:30
	Standard Methods 18th Ed. 2580 B Field				09/26/2023 10:30
	Standard Methods 2320 B (Total) 1997, 2011				10/03/2023 15:41
	Standard Methods 2320 B 1997, 2011				10/03/2023 15:41
	Standard Methods 2510 B Field				09/26/2023 10:30
	Standard Methods 2540 C (Total) 1997, 2011				09/29/2023 11:05
	Standard Methods 2550 B Field				09/26/2023 10:30
	Standard Methods 4500-NO2 B (Total) 2000, 2011				09/27/2023 16:51
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 15:11
	Standard Methods 4500-NO3 F (Total) 2000, 2011				09/27/2023 15:11
	Standard Methods 4500-O G Field				09/26/2023 10:30
	Standard Methods 4500-P E 1999				09/27/2023 0:00
	Standard Methods 4500-P E 1999, 2011				09/27/2023 11:39
	SW-846 9036 (Total)				09/28/2023 1:06
	SW-846 9040B Field				09/26/2023 10:30
	SW-846 9214 (Total)				09/27/2023 9:13
	SW-846 9251 (Total)				09/28/2023 1:00
23091473-047B	G52D Duplicate	09/26/2023 10:30	09/26/2023 16:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 12:17
	Standard Methods 2320 B (Dissolved) 1997, 2011				10/04/2023 12:17
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				09/27/2023 16:54
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 14:22
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				09/27/2023 14:22
	Standard Methods 4500-P E (Dissolved) 1999, 2011				09/27/2023 11:40
	Standard Methods 4500-P E (Dissolved) 1999				09/27/2023 0:00
	SW-846 9036 (Dissolved)				09/28/2023 1:29
	SW-846 9251 (Dissolved)				09/28/2023 1:24
23091473-047C	G52D Duplicate	09/26/2023 10:30	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/02/2023 19:04	10/03/2023 14:01
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/04/2023 18:40
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/09/2023 13:30
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			10/02/2023 19:04	10/10/2023 10:23

Dates Report

Client: Ramboll
Client Project: JOP-23Q3

Work Order: 23091473
Report Date: 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 7470A (Total)			09/27/2023 11:50	09/29/2023 16:39
23091473-047D	G52D Duplicate	09/26/2023 10:30	09/26/2023 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			10/02/2023 9:08	10/02/2023 22:54
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 9:08	10/04/2023 0:46
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			10/02/2023 9:08	10/05/2023 13:48
23091473-047E	G52D Duplicate	09/26/2023 10:30	09/26/2023 16:00		
	SW-846 9060A				09/28/2023 17:53
23091473-047F	G52D Duplicate	09/26/2023 10:30	09/26/2023 16:00		
	SW-846 9060A				10/02/2023 12:59

Teklab, Inc. Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 2510 B FIELD

Batch R337257 **SampType:** LCS Units **µS/cm**
SampID: LCS-1

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	09/27/2023

Batch R337257 **SampType:** LCS Units **µS/cm**
SampID: LCS-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1410**	1412	0	99.9	90	110	09/26/2023

Batch R337257 **SampType:** LCS Units **µS/cm**
SampID: LCS-3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1410**	1412	0	100.1	90	110	09/25/2023

Batch R337257 **SampType:** LCS Units **µS/cm**
SampID: LCS-4

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1420**	1412	0	100.2	90	110	09/27/2023

Batch R337257 **SampType:** LCS Units **µS/cm**
SampID: LCS-5

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1410**	1412	0	100.1	90	110	09/26/2023

Batch R337257 **SampType:** LCS Units **µS/cm**
SampID: LCS-6

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1410**	1412	0	100.0	90	110	09/28/2023

Batch R337257 **SampType:** LCS Units **µS/cm**
SampID: LCS-7

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1480**	1412	0	104.8	90	110	09/29/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9040B FIELD

Batch R337257 **SampType:** LCS Units

SampID: LCS-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.04**	7.000	0	100.6	98.57	101.4	09/27/2023

Batch R337257 **SampType:** LCS Units

SampID: LCS-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.04**	7.000	0	100.6	98.57	101.4	09/26/2023

Batch R337257 **SampType:** LCS Units

SampID: LCS-3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.06**	7.000	0	100.9	98.57	101.4	09/25/2023

Batch R337257 **SampType:** LCS Units

SampID: LCS-4

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.00**	7.000	0	100.0	98.57	101.4	09/27/2023

Batch R337257 **SampType:** LCS Units

SampID: LCS-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	09/26/2023

Batch R337257 **SampType:** LCS Units

SampID: LCS-6

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	09/28/2023

Batch R337257 **SampType:** LCS Units

SampID: LCS-7

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.04**	7.000	0	100.6	98.57	101.4	09/29/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R337107 **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	09/28/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	09/28/2023

Batch R337107 **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		**972**	1000	0	97.2	90	110	09/28/2023
Total Dissolved Solids		20		**948**	1000	0	94.8	90	110	09/28/2023

Batch R337107 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23091473-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**330**				350.0	5.88	09/28/2023

Batch R337236 **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	10/02/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/02/2023

Batch R337236 **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		**970**	1000	0	97.0	90	110	10/02/2023
Total Dissolved Solids		20		**978**	1000	0	97.8	90	110	10/02/2023

Batch R337236 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23091473-012ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**262**				266.0	1.52	10/02/2023

Batch R337236 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23091473-026ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**396**				390.0	1.53	10/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R337238 **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	09/29/2023

Batch R337238 **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		**976**	1000	0	97.6	90	110	09/29/2023

Batch R337238 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23091473-014ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**192**				204.0	6.06	09/29/2023

Batch R338047 **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	10/19/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/19/2023

Batch R338047 **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		**962**	1000	0	96.2	90	110	10/19/2023
Total Dissolved Solids		20		**950**	1000	0	95.0	90	110	10/19/2023

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R336898 **SampType:** MS Units **mg/L**
SampID: 23091473-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.47**	0.5000	0	93.4	85	115	09/26/2023

Batch R336898 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0	102.2	0.4670	9.00	09/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R336898 **SampType:** MS Units **mg/L**
SampID: 23091473-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.62**	0.5000	0.06700	111.4	85	115	09/26/2023

Batch R336898 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.58**	0.5000	0.06700	102.4	0.6240	7.48	09/26/2023

Batch R336898 **SampType:** MS Units **mg/L**
SampID: 23091473-035BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0	102.0	85	115	09/26/2023

Batch R336898 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-035BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0	102.4	0.5100	0.39	09/26/2023

Batch R336962 **SampType:** MS Units **mg/L**
SampID: 23091473-004BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0	101.2	85	115	09/28/2023

Batch R336962 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-004BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	100.8	0.5060	0.40	09/28/2023

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R336898 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	09/26/2023
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	09/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R336898 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		**1.20**	1.250	0	95.6	90	110	09/26/2023
Nitrogen, Nitrite (as N)		0.25		**1.20**	1.250	0	95.6	90	110	09/26/2023

Batch R336962 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	09/27/2023
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	09/27/2023

Batch R336962 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		**1.24**	1.250	0	98.8	90	110	09/27/2023
Nitrogen, Nitrite (as N)		0.25		**1.23**	1.250	0	98.4	90	110	09/27/2023

Batch R336962 **SampType:** MS Units **mg/L**
SampID: 23091473-004AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	100.8	85	115	09/28/2023

Batch R336962 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-004AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0	101.6	0.5040	0.79	09/28/2023

Batch R336962 **SampType:** MS Units **mg/L**
SampID: 23091473-006AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	99.6	85	115	09/28/2023

Batch R336962 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-006AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.49**	0.5000	0	98.6	0.4980	1.01	09/28/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R336962 **SampType:** MS Units **mg/L**
SampID: 23091473-009AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.47**	0.5000	0	94.6	85	115	09/28/2023

Batch R336962 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-009AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.47**	0.5000	0	94.6	0.4730	0.00	09/28/2023

Batch R337118 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	09/29/2023

Batch R337118 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		**1.24**	1.250	0	99.2	90	110	09/29/2023

Batch R337118 **SampType:** MS Units **mg/L**
SampID: 23091473-025AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	99.6	85	115	09/29/2023

Batch R337118 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-025AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0	102.0	0.4980	2.38	09/29/2023

Batch R337118 **SampType:** MS Units **mg/L**
SampID: 23091473-026AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	100.8	85	115	09/29/2023

Batch R337118 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-026AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	100.4	0.5040	0.40	09/29/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll
Work Order: 23091473
Client Project: JOP-23Q3
Report Date: 16-Nov-23

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R336967 **SampType:** MS Units **mg/L**
SampID: 23091473-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250	H	**3.95**	1.250	2.716	98.6	85	115	09/27/2023

Batch R336967 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250	H	**4.02**	1.250	2.716	104.3	3.948	1.81	09/27/2023

Batch R336967 **SampType:** MS Units **mg/L**
SampID: 23091473-036BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.249**	0.2500	0.01300	94.4	85	115	09/27/2023

Batch R336967 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-036BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.247**	0.2500	0.01300	93.6	0.2490	0.81	09/27/2023

Batch R337069 **SampType:** MS Units **mg/L**
SampID: 23091473-008BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.219**	0.2500	0	87.6	85	115	09/28/2023

Batch R337069 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-008BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.226**	0.2500	0	90.4	0.2190	3.15	09/28/2023

Batch R337069 **SampType:** MS Units **mg/L**
SampID: 23091473-023BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.265**	0.2500	0.01500	100.0	85	115	09/28/2023

Batch R337069 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-023BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.266**	0.2500	0.01500	100.4	0.2650	0.38	09/28/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R337069 **SampType:** MS Units **mg/L**
SampID: 23091473-037BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.246**	0.2500	0	98.4	85	115	09/28/2023

Batch R337069 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-037BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.247**	0.2500	0	98.8	0.2460	0.41	09/28/2023

Batch R337205 **SampType:** MS Units **mg/L**
SampID: 23091473-021BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.500		**7.52**	2.500	5.092	97.1	85	115	09/29/2023

Batch R337205 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-021BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.500		**7.41**	2.500	5.092	92.6	7.520	1.53	09/29/2023

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R336967 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						09/27/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	09/27/2023

Batch R336967 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.507**	0.5000	0	101.4	90	110	09/27/2023

Batch R336967 **SampType:** MS Units **mg/L**
SampID: 23091473-003AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		**4.23**	1.250	2.874	108.4	85	115	09/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R336967 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-003AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		**4.24**	1.250	2.874	109.0	4.229	0.19	09/27/2023

Batch R336967 **SampType:** MS Units **mg/L**
SampID: 23091473-044AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.284**	0.2500	0.02400	104.0	85	115	09/27/2023

Batch R336967 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-044AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.286**	0.2500	0.02400	104.8	0.2840	0.70	09/27/2023

Batch R337069 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						09/28/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	09/28/2023

Batch R337069 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.516**	0.5000	0	103.2	90	110	09/28/2023

Batch R337069 **SampType:** MS Units **mg/L**
SampID: 23091473-022AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.300**	0.2500	0.08300	86.8	85	115	09/28/2023

Batch R337069 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-022AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.329**	0.2500	0.08300	98.4	0.3000	9.22	09/28/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R337069 **SampType:** MS Units **mg/L**
SampID: 23091473-033AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250	S	**3.74**	1.250	2.263	117.8	85	115	09/28/2023

Batch R337069 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-033AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		**3.57**	1.250	2.263	104.7	3.735	4.46	09/28/2023

Batch R337205 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						09/29/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	09/29/2023

Batch R337205 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.522**	0.5000	0	104.4	90	110	09/29/2023

Batch R337205 **SampType:** MS Units **mg/L**
SampID: 23091473-017AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.100		**1.30**	0.5000	0.7940	101.0	85	115	09/29/2023

Batch R337205 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-017AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.100		**1.30**	0.5000	0.7940	100.6	1.299	0.15	09/29/2023

Batch R337205 **SampType:** MS Units **mg/L**
SampID: 23091473-032AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		**3.60**	1.250	2.305	103.6	85	115	09/29/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R337205 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-032AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		**3.65**	1.250	2.305	107.5	3.600	1.35	09/29/2023

STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R336947 **SampType:** MS Units **mg/L**
SampID: 23091473-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.052**	0.0500	0	104.0	85	115	09/27/2023

Batch R336947 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.053**	0.0500	0	106.0	0.05200	1.90	09/27/2023

Batch R336947 **SampType:** MS Units **mg/L**
SampID: 23091473-036BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.121**	0.0500	0.07000	102.0	85	115	09/27/2023

Batch R336947 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-036BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.116**	0.0500	0.07000	92.0	0.1210	4.22	09/27/2023

Batch R337056 **SampType:** MS Units **mg/L**
SampID: 23091473-004BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.045**	0.0500	0	90.0	85	115	09/28/2023

Batch R337056 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-004BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.044**	0.0500	0	88.0	0.04500	2.25	09/28/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R337056 **SampType:** MS Units **mg/L**
SampID: 23091473-005BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.061**	0.0500	0.01800	86.0	85	115	09/28/2023

Batch R337056 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-005BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.063**	0.0500	0.01800	90.0	0.06100	3.23	09/28/2023

Batch R337056 **SampType:** MS Units **mg/L**
SampID: 23091473-007BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.057**	0.0500	0.01100	92.0	85	115	09/28/2023

Batch R337056 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-007BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.060**	0.0500	0.01100	98.0	0.05700	5.13	09/28/2023

Batch R337056 **SampType:** MS Units **mg/L**
SampID: 23091473-009BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.067**	0.0500	0.02000	94.0	85	115	09/28/2023

Batch R337056 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-009BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.068**	0.0500	0.02000	96.0	0.06700	1.48	09/28/2023

Batch R337073 **SampType:** MS Units **mg/L**
SampID: 23091473-017BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.065**	0.0500	0.01700	96.0	85	115	09/29/2023

Batch R337073 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-017BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.066**	0.0500	0.01700	98.0	0.06500	1.53	09/29/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R337073 **SampType:** MS Units **mg/L**
SampID: 23091473-018BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.068**	0.0500	0.01300	110.0	85	115	09/29/2023

Batch R337073 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-018BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.068**	0.0500	0.01300	110.0	0.06800	0.00	09/29/2023

STANDARD METHODS 4500-P E 1999, 2011

Batch R336947 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**< 0.010**	0.0020	0	0	-100	100	09/27/2023

Batch R336947 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.102**	0.1000	0	102.0	90	110	09/27/2023

Batch R336947 **SampType:** MS Units **mg/L**
SampID: 23091473-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.052**	0.0500	0.005000	94.0	85	115	09/27/2023

Batch R336947 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.052**	0.0500	0.005000	94.0	0.05200	0.00	09/27/2023

Batch R337056 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**< 0.010**	0.0020	0	0	-100	100	09/28/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

STANDARD METHODS 4500-P E 1999, 2011

Batch R337056 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.105**	0.1000	0	105.0	90	110	09/28/2023

Batch R337073 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**< 0.010**	0.0020	0	0	-100	100	09/29/2023

Batch R337073 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.098**	0.1000	0	98.0	90	110	09/29/2023

SW-846 9036 (DISSOLVED)

Batch R337008 **SampType:** MBLK Units **mg/L**
SampID: MB-R337008

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	09/27/2023

Batch R337008 **SampType:** LCS Units **mg/L**
SampID: LCS-R337008

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**19**	20.00	0	93.6	90	110	09/27/2023

Batch R337008 **SampType:** MS Units **mg/L**
SampID: 23091473-035BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100	S	**289**	200.0	124.6	82.3	85	115	09/27/2023

Batch R337008 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-035BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**296**	200.0	124.6	85.5	289.1	2.20	09/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9036 (DISSOLVED)

Batch R337008 **SampType:** MS Units **mg/L**
SampID: 23091473-038BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**360**	200.0	178.3	90.7	85	115	09/27/2023

Batch R337008 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-038BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**363**	200.0	178.3	92.6	359.6	1.03	09/27/2023

Batch R337145 **SampType:** MBLK Units **mg/L**
SampID: MB-R337145

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	J	**6**	6.280	0	100.0	-100	100	09/29/2023

Batch R337145 **SampType:** LCS Units **mg/L**
SampID: LCS-R337145

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**19**	20.00	0	92.8	90	110	09/29/2023

Batch R337255 **SampType:** MS Units **mg/L**
SampID: 23091473-006BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**472**	200.0	267.2	102.3	85	115	10/03/2023

Batch R337255 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-006BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**450**	200.0	267.2	91.4	471.8	4.74	10/03/2023

Batch R337255 **SampType:** MS Units **mg/L**
SampID: 23091473-022BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50	S	**158**	100.0	74.07	83.7	85	115	10/03/2023

Batch R337255 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-022BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		**159**	100.0	74.07	85.2	157.8	0.99	10/03/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9036 (DISSOLVED)

Batch R337255 **SampType:** MS Units **mg/L**
SampID: 23091473-025BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	SE	**52**	20.00	35.09	83.7	85	115	10/03/2023

Batch R337255 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-025BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	E	**53**	20.00	35.09	87.4	51.83	1.42	10/03/2023

Batch R337324 **SampType:** MS Units **mg/L**
SampID: 23091473-019BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50	S	**167**	100.0	159.3	7.5	85	115	10/04/2023

Batch R337324 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-019BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50	S	**168**	100.0	159.3	8.4	166.8	0.54	10/04/2023

SW-846 9036 (TOTAL)

Batch R337008 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	09/27/2023

Batch R337008 **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	93.6	90	110	09/27/2023

Batch R337008 **SampType:** MS Units **mg/L**
SampID: 23091473-035AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100	S	**489**	200.0	127.1	181.0	85	115	09/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9036 (TOTAL)

Batch R337008 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-035AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100	SR	**120**	200.0	127.1	-3.3	489.0	120.93	09/27/2023

Batch R337008 **SampType:** MS Units **mg/L**
SampID: 23091473-038AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**354**	200.0	179.5	87.1	85	115	09/27/2023

Batch R337008 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-038AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**360**	200.0	179.5	90.1	353.8	1.65	09/27/2023

Batch R337145 **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	J	**6**	6.280	0	100.0	-100	100	09/29/2023

Batch R337145 **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	92.8	90	110	09/29/2023

Batch R337255 **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	10/03/2023

Batch R337255 **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	93.4	90	110	10/03/2023

Batch R337255 **SampType:** MS Units **mg/L**
SampID: 23091473-006AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**452**	200.0	268.3	91.8	85	115	10/03/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9036 (TOTAL)

Batch R337255 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-006AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**447**	200.0	268.3	89.2	451.9	1.19	10/03/2023

Batch R337255 **SampType:** MS Units **mg/L**
SampID: 23091473-018AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**351**	200.0	179.4	86.0	85	115	10/04/2023

Batch R337255 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-018AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**357**	200.0	179.4	89.0	351.3	1.70	10/04/2023

Batch R337255 **SampType:** MS Units **mg/L**
SampID: 23091473-030AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**465**	200.0	280.7	92.0	85	115	10/04/2023

Batch R337255 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-030AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**466**	200.0	280.7	92.6	464.7	0.25	10/04/2023

Batch R337324 **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	10/04/2023

Batch R337324 **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	95.3	90	110	10/04/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9060A

Batch R337063 **SampType:** MBLK Units **mg/L**
SampID: Filter Blank

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**< 1.0**	0.4500	0	0	-100	100	09/28/2023

Batch R337063 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**< 1.0**	0.4500	0	0	-100	100	09/28/2023

Batch R337063 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**4.9**	5.000	0	98.6	90	110	09/28/2023

Batch R337063 **SampType:** MS Units **mg/L**
SampID: 23091473-001EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.9**	5.000	0.8100	101.8	85	115	09/28/2023

Batch R337063 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-001EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.9**	5.000	0.8100	102.4	5.900	0.51	09/28/2023

Batch R337063 **SampType:** MS Units **mg/L**
SampID: 23091473-015FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**8.7**	5.000	3.280	108.2	85	115	09/28/2023

Batch R337063 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-015FMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Dissolved Organic Carbon		1.0		**8.6**	5.000	3.280	105.4	8.690	1.62	09/28/2023

Batch R337063 **SampType:** MS Units **mg/L**
SampID: 23091473-035EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.8**	5.000	0.7300	100.8	85	115	09/28/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9060A

Batch R337063 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-035EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.8**	5.000	0.7300	102.0	5.770	1.03	09/28/2023

Batch R337063 **SampType:** MS Units **mg/L**
SampID: 23091473-043EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**9.1**	5.000	4.360	94.0	85	115	09/28/2023

Batch R337063 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-043EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**9.0**	5.000	4.360	93.4	9.060	0.33	09/28/2023

Batch R337210 **SampType:** MBLK Units **mg/L**
SampID: Filter Blank

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**< 1.0**	0.4500	0	0	-100	100	10/02/2023

Batch R337210 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**< 1.0**	0.4500	0	0	-100	100	10/02/2023

Batch R337210 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.0**	5.000	0	100.2	90	110	10/02/2023

Batch R337210 **SampType:** MS Units **mg/L**
SampID: 23091473-004EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**8.0**	5.000	2.930	100.6	85	115	10/02/2023

Batch R337210 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-004EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**7.9**	5.000	2.930	99.2	7.960	0.88	10/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9060A

Batch R337210 **SampType:** MS Units **mg/L**
SampID: 23091473-019EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.6**	5.000	0.4800	101.4	85	115	10/02/2023

Batch R337210 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-019EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.4**	5.000	0.4800	99.2	5.550	2.00	10/02/2023

Batch R337210 **SampType:** MS Units **mg/L**
SampID: 23091473-020FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**6.0**	5.000	1.040	98.8	85	115	10/02/2023

Batch R337210 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-020FMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Dissolved Organic Carbon		1.0		**6.0**	5.000	1.040	100.0	5.980	1.00	10/02/2023

Batch R337210 **SampType:** MS Units **mg/L**
SampID: 23091473-023EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**6.2**	5.000	1.300	98.8	85	115	10/02/2023

Batch R337210 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-023EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**6.2**	5.000	1.300	97.8	6.240	0.80	10/02/2023

Batch R337210 **SampType:** MS Units **mg/L**
SampID: 23091473-030EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.8**	5.000	0.5900	104.4	85	115	10/02/2023

Batch R337210 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-030EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.7**	5.000	0.5900	102.2	5.810	1.91	10/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9060A

Batch R337210 **SampType:** MS Units **mg/L**
SampID: 23091473-030FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**6.1**	5.000	1.070	100.2	85	115	10/02/2023

Batch R337210 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091473-030FMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Dissolved Organic Carbon		1.0		**6.0**	5.000	1.070	99.0	6.080	0.99	10/02/2023

SW-846 9214 (TOTAL)

Batch R336932 **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	09/27/2023

Batch R336932 **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		**1.02**	1.000	0	101.6	90	110	09/27/2023

Batch R336932 **SampType:** MS Units **mg/L**
SampID: 23091473-040AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.36**	2.000	0.2480	105.8	75	125	09/27/2023

Batch R336932 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-040AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.36**	2.000	0.2480	105.8	2.365	0.00	09/27/2023

Batch R336932 **SampType:** MS Units **mg/L**
SampID: 23091473-047AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.33**	2.000	0.2730	102.8	75	125	09/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9214 (TOTAL)

Batch R336932 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-047AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.33**	2.000	0.2730	102.6	2.328	0.09	09/27/2023

Batch R337213 **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	10/03/2023

Batch R337213 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**1.00**	1.000	0	99.6	90	110	10/03/2023

Batch R337213 **SampType:** MS Units **mg/L**
SampID: 23091473-011AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.20**	2.000	0.2010	100.1	75	125	10/03/2023

Batch R337213 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-011AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.23**	2.000	0.2010	101.5	2.203	1.22	10/03/2023

Batch R337213 **SampType:** MS Units **mg/L**
SampID: 23091473-028AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.52**	2.000	0.3400	109.0	75	125	10/03/2023

Batch R337213 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-028AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.56**	2.000	0.3400	110.8	2.521	1.42	10/03/2023

Batch R337213 **SampType:** MS Units **mg/L**
SampID: 23091473-029AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.73**	2.000	0.3860	117.1	75	125	10/03/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9214 (TOTAL)

Batch R337213 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-029AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.63**	2.000	0.3860	112.4	2.728	3.54	10/03/2023

Batch R337213 **SampType:** MS Units **mg/L**
SampID: 23091473-046AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.15**	2.000	0	107.4	75	125	10/03/2023

Batch R337213 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-046AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.18**	2.000	0	109.2	2.148	1.71	10/03/2023

Batch R337213 **SampType:** MS Units **mg/L**
SampID: 23091473-048AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.42**	2.000	0.2820	106.9	75	125	10/03/2023

Batch R337213 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-048AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.38**	2.000	0.2820	104.8	2.420	1.71	10/03/2023

SW-846 9251 (DISSOLVED)

Batch R337023 **SampType:** MS Units **mg/L**
SampID: 23091473-035BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**25**	20.00	3.760	107.0	85	115	09/27/2023

Batch R337023 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-035BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**24**	20.00	3.760	102.4	25.17	3.81	09/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9251 (DISSOLVED)

Batch R337023 **SampType:** MS Units **mg/L**
SampID: 23091473-038BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**39**	20.00	19.98	93.2	85	115	09/27/2023

Batch R337023 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-038BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**39**	20.00	19.98	95.2	38.62	1.06	09/27/2023

Batch R337287 **SampType:** MS Units **mg/L**
SampID: 23091473-006BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**38**	20.00	20.49	87.8	85	115	10/03/2023

Batch R337287 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-006BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**39**	20.00	20.49	91.6	38.05	1.98	10/03/2023

Batch R337287 **SampType:** MS Units **mg/L**
SampID: 23091473-019BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**37**	20.00	18.98	89.4	85	115	10/03/2023

Batch R337287 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-019BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**37**	20.00	18.98	88.0	36.85	0.76	10/03/2023

Batch R337287 **SampType:** MS Units **mg/L**
SampID: 23091473-022BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**40**	20.00	22.06	88.0	85	115	10/03/2023

Batch R337287 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-022BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**40**	20.00	22.06	87.6	39.67	0.20	10/03/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9251 (DISSOLVED)

Batch R337287 **SampType:** MS Units **mg/L**
SampID: 23091473-025BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**42**	20.00	25.42	85.1	85	115	10/03/2023

Batch R337287 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-025BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**43**	20.00	25.42	87.5	42.44	1.10	10/03/2023

SW-846 9251 (TOTAL)

Batch R337023 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	09/27/2023

Batch R337023 **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	99.6	90	110	09/27/2023

Batch R337023 **SampType:** MS Units **mg/L**
SampID: 23091473-035AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**24**	20.00	3.980	100.2	85	115	09/27/2023

Batch R337023 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-035AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**24**	20.00	3.980	98.1	24.03	1.81	09/27/2023

Batch R337023 **SampType:** MS Units **mg/L**
SampID: 23091473-038AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**39**	20.00	20.03	96.3	85	115	09/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9251 (TOTAL)

Batch R337023 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-038AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**39**	20.00	20.03	95.7	39.29	0.33	09/27/2023

Batch R337157 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	09/29/2023

Batch R337157 **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	100.0	90	110	09/29/2023

Batch R337287 **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	10/03/2023

Batch R337287 **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	99.4	90	110	10/03/2023

Batch R337287 **SampType:** MS Units **mg/L**
SampID: 23091473-006AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**38**	20.00	20.78	87.2	85	115	10/03/2023

Batch R337287 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-006AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**39**	20.00	20.78	89.7	38.21	1.33	10/03/2023

Batch R337287 **SampType:** MS Units **mg/L**
SampID: 23091473-018AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**40**	20.00	22.30	89.8	85	115	10/04/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 9251 (TOTAL)

Batch R337287 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-018AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**41**	20.00	22.30	91.1	40.27	0.62	10/04/2023

Batch R337287 **SampType:** MS Units **mg/L**
SampID: 23091473-030AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**37**	20.00	19.01	88.0	85	115	10/04/2023

Batch R337287 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-030AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**37**	20.00	19.01	88.6	36.61	0.33	10/04/2023

Batch R337334 **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	10/04/2023

Batch R337334 **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	100.3	90	110	10/04/2023

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

Batch 212672 **SampType:** MBLK Units **mg/L**
SampID: MBLK-212672

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	10/02/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/02/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	10/02/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/02/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	10/02/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/02/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	10/02/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/02/2023

Teklab, Inc.
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Quality Control Results

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Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212672 **SampType:** LCS Units **mg/L**
SampID: LCS-212672

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.33**	2.500	0	93.3	85	115	10/02/2023
Iron		0.0400		**1.77**	2.000	0	88.7	85	115	10/02/2023
Magnesium		0.0500		**2.35**	2.500	0	94.1	85	115	10/03/2023
Manganese		0.0070		**0.436**	0.5000	0	87.2	85	115	10/02/2023
Potassium		0.100		**2.30**	2.500	0	92.2	85	115	10/02/2023
Silicon	*	0.0500		**0.500**	0.5000	0	99.9	85	115	10/03/2023
Sodium		0.0500		**2.16**	2.500	0	86.6	85	115	10/02/2023

Batch 212672 **SampType:** MS Units **mg/L**
SampID: 23091473-022DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**29.9**	2.500	29.47	15.6	75	125	10/02/2023
Magnesium		0.0500	S	**14.6**	2.500	13.21	53.8	75	125	10/02/2023
Potassium		0.100		**2.67**	2.500	0.1971	98.8	75	125	10/02/2023
Silicon	*	0.0500	S	**17.8**	0.5000	18.31	-100.5	75	125	10/02/2023
Sodium		0.0500	S	**60.5**	2.500	60.96	-18.0	75	125	10/02/2023

Batch 212672 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23091473-022DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**29.9**	2.500	29.47	17.6	29.86	0.17	10/02/2023
Magnesium		0.0500	S	**14.6**	2.500	13.21	54.5	14.56	0.11	10/02/2023
Potassium		0.100		**2.70**	2.500	0.1971	100.1	2.667	1.17	10/02/2023
Silicon	*	0.0500	S	**17.8**	0.5000	18.31	-99.5	17.81	0.03	10/02/2023
Sodium		0.0500	S	**60.5**	2.500	60.96	-18.4	60.51	0.02	10/02/2023

Batch 212672 **SampType:** MS Units **mg/L**
SampID: 23091473-023DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**132**	2.500	132.4	-3.2	75	125	10/02/2023
Magnesium		0.0500	S	**24.1**	2.500	22.45	65.8	75	125	10/02/2023
Potassium		0.100		**5.60**	2.500	3.288	92.5	75	125	10/02/2023
Silicon	*	0.0500	S	**7.16**	0.5000	6.829	65.3	75	125	10/02/2023
Sodium		0.0500	S	**34.0**	2.500	32.48	62.4	75	125	10/02/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212672 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-023DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**130**	2.500	132.4	-78.8	132.3	1.44	10/02/2023
Magnesium		0.0500	S	**23.9**	2.500	22.45	56.7	24.09	0.95	10/02/2023
Potassium		0.100		**5.58**	2.500	3.288	91.6	5.600	0.37	10/02/2023
Silicon	*	0.0500	S	**7.06**	0.5000	6.829	45.4	7.155	1.40	10/02/2023
Sodium		0.0500	S	**33.7**	2.500	32.48	48.0	34.04	1.06	10/02/2023

Batch 212674 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212674

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	10/02/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/02/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	10/02/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/02/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	10/02/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/02/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	10/02/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/02/2023

Batch 212674 **SampType:** LCS Units **mg/L**

SampID: LCS-212674

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.79**	2.000	0	89.6	85	115	10/02/2023
Calcium		0.100		**2.46**	2.500	0	98.5	85	115	10/02/2023
Iron		0.0400		**1.88**	2.000	0	94.2	85	115	10/02/2023
Magnesium		0.0500		**2.21**	2.500	0	88.3	85	115	10/02/2023
Manganese		0.0070		**0.462**	0.5000	0	92.3	85	115	10/02/2023
Potassium		0.100		**2.42**	2.500	0	96.8	85	115	10/02/2023
Silicon	*	0.0500		**0.485**	0.5000	0	97.0	85	115	10/03/2023
Sodium		0.0500		**2.28**	2.500	0	91.3	85	115	10/02/2023

Teklab, Inc.
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Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212674 **SampType:** MS Units **mg/L**
SampID: 23091473-029DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**97.5**	2.500	97.60	-3.2	75	125	10/02/2023
Magnesium		0.0500	S	**25.0**	2.500	23.38	66.6	75	125	10/02/2023
Potassium		0.100		**3.97**	2.500	1.506	98.6	75	125	10/02/2023
Silicon	*	0.0500	S	**6.25**	0.5000	5.921	66.4	75	125	10/02/2023
Sodium		0.0500	S	**33.5**	2.500	32.34	48.0	75	125	10/02/2023

Batch 212674 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23091473-029DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**96.2**	2.500	97.60	-56.0	97.52	1.36	10/02/2023
Magnesium		0.0500	S	**24.8**	2.500	23.38	56.5	25.05	1.01	10/02/2023
Potassium		0.100		**4.02**	2.500	1.506	100.4	3.970	1.12	10/02/2023
Silicon	*	0.0500	S	**6.16**	0.5000	5.921	47.9	6.253	1.49	10/02/2023
Sodium		0.0500	S	**33.2**	2.500	32.34	34.8	33.54	0.99	10/02/2023

Batch 212674 **SampType:** MS Units **mg/L**
SampID: 23091473-037DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**36.5**	2.500	35.15	55.6	75	125	10/02/2023
Magnesium		0.0500	S	**17.0**	2.500	15.31	66.5	75	125	10/02/2023
Potassium		0.100		**2.73**	2.500	0.2692	98.4	75	125	10/02/2023
Silicon	*	0.0500	S	**18.2**	0.5000	18.32	-22.3	75	125	10/02/2023
Sodium		0.0500	S	**46.4**	2.500	45.84	21.6	75	125	10/02/2023

Batch 212674 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23091473-037DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**36.4**	2.500	35.15	50.0	36.54	0.38	10/02/2023
Magnesium		0.0500	S	**16.9**	2.500	15.31	64.2	16.97	0.33	10/02/2023
Potassium		0.100		**2.81**	2.500	0.2692	101.8	2.730	3.06	10/02/2023
Silicon	*	0.0500	S	**18.2**	0.5000	18.32	-25.8	18.21	0.10	10/02/2023
Sodium		0.0500	S	**46.6**	2.500	45.84	30.0	46.38	0.45	10/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212689 **SampType:** MBLK Units **mg/L**
SampID: MBLK-212689

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	10/02/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/02/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	10/02/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/02/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	10/02/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/02/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	10/02/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/02/2023

Batch 212689 **SampType:** LCS Units **mg/L**
SampID: LCS-212689

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.78**	2.000	0	88.8	85	115	10/02/2023
Calcium		0.100		**2.47**	2.500	0	98.9	85	115	10/02/2023
Iron		0.0400		**1.89**	2.000	0	94.6	85	115	10/02/2023
Magnesium		0.0500		**2.22**	2.500	0	88.8	85	115	10/02/2023
Manganese		0.0070		**0.464**	0.5000	0	92.9	85	115	10/02/2023
Potassium		0.100		**2.42**	2.500	0	96.9	85	115	10/02/2023
Silicon	*	0.0500		**0.474**	0.5000	0	94.7	85	115	10/03/2023
Sodium		0.0500		**2.28**	2.500	0	91.1	85	115	10/02/2023

Batch 212689 **SampType:** MS Units **mg/L**
SampID: 23091473-044DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**13.4**	2.500	10.96	98.4	75	125	10/02/2023
Magnesium		0.0500		**2.37**	2.500	0.03270	93.3	75	125	10/02/2023
Potassium		1.00		**27.4**	2.500	25.38	82.4	75	125	10/03/2023
Silicon	*	0.0500		**5.56**	0.5000	5.130	86.1	75	125	10/02/2023
Sodium		0.0500	S	**99.1**	2.500	97.76	53.6	75	125	10/02/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212689 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-044DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		**13.5**	2.500	10.96	100.0	13.42	0.30	10/02/2023
Magnesium		0.0500		**2.39**	2.500	0.03270	94.1	2.366	0.85	10/02/2023
Potassium		1.00	S	**26.7**	2.500	25.38	53.6	27.44	2.67	10/03/2023
Silicon	*	0.0500		**5.60**	0.5000	5.130	93.5	5.560	0.67	10/02/2023
Sodium		0.0500		**99.9**	2.500	97.76	84.8	99.10	0.78	10/02/2023

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

Batch 212544 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212544

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	09/28/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	09/28/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	09/28/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	09/28/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	09/28/2023

Batch 212544 **SampType:** LCS Units **mg/L**

SampID: LCS-212544

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	09/28/2023
Magnesium		0.0500		**2.32**	2.500	0	92.9	85	115	09/28/2023
Potassium		0.100		**2.52**	2.500	0	100.8	85	115	09/28/2023
Silicon	*	0.0500		**0.455**	0.5000	0	91.0	85	115	09/28/2023
Sodium		0.0500		**2.46**	2.500	0	98.3	85	115	09/28/2023

Batch 212544 **SampType:** MS Units **mg/L**

SampID: 23091473-035CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**31.4**	2.500	28.74	104.8	75	125	09/30/2023
Magnesium		0.0500		**14.6**	2.500	12.16	98.8	75	125	09/30/2023
Potassium		0.100		**2.93**	2.500	0.3187	104.5	75	125	09/30/2023
Silicon	*	0.0500		**23.8**	0.5000	23.25	117.4	75	125	09/30/2023
Sodium		0.0500		**34.9**	2.500	32.67	89.6	75	125	09/30/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212544 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-035CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		**31.5**	2.500	28.74	110.0	31.36	0.41	09/30/2023
Magnesium		0.0500		**14.7**	2.500	12.16	101.7	14.63	0.50	09/30/2023
Potassium		0.100		**2.93**	2.500	0.3187	104.5	2.932	0.01	09/30/2023
Silicon	*	0.0500	S	**24.0**	0.5000	23.25	160.3	23.83	0.90	09/30/2023
Sodium		0.0500		**35.1**	2.500	32.67	96.0	34.91	0.46	09/30/2023

Batch 212596 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212596

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	09/29/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	09/29/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	09/29/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	09/29/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	09/29/2023

Batch 212596 **SampType:** LCS Units **mg/L**

SampID: LCS-212596

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.60**	2.500	0	104.0	85	115	09/29/2023
Magnesium		0.0500		**2.52**	2.500	0	100.9	85	115	09/29/2023
Potassium		0.100		**2.61**	2.500	0	104.2	85	115	09/29/2023
Silicon	*	0.0500		**0.496**	0.5000	0	99.2	85	115	09/29/2023
Sodium		0.0500		**2.49**	2.500	0	99.7	85	115	09/29/2023

Batch 212596 **SampType:** MS Units **mg/L**

SampID: 23091473-017CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**88.3**	2.500	84.83	140.0	75	125	09/29/2023
Magnesium		0.0500		**27.9**	2.500	25.04	115.0	75	125	09/29/2023
Potassium		0.100		**4.37**	2.500	1.685	107.3	75	125	09/29/2023
Silicon	*	0.0500		**7.46**	0.5000	6.926	107.2	75	125	10/02/2023
Sodium		0.0500		**31.5**	2.500	28.82	106.0	75	125	09/29/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212596 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-017CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		**87.6**	2.500	84.83	112.0	88.33	0.80	09/29/2023
Magnesium		0.0500		**27.7**	2.500	25.04	106.5	27.92	0.76	09/29/2023
Potassium		0.100		**4.30**	2.500	1.685	104.6	4.366	1.50	09/29/2023
Silicon	*	0.0500	S	**7.29**	0.5000	6.926	73.6	7.462	2.27	10/02/2023
Sodium		0.0500		**31.1**	2.500	28.82	92.4	31.47	1.09	09/29/2023

Batch 212657 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212657

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	10/02/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/02/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/02/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	10/02/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/02/2023

Batch 212657 **SampType:** LCS Units **mg/L**

SampID: LCS-212657

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.65**	2.500	0	105.9	85	115	10/02/2023
Magnesium		0.0500		**2.31**	2.500	0	92.2	85	115	10/02/2023
Potassium		0.100		**2.73**	2.500	0	109.1	85	115	10/02/2023
Silicon	*	0.0500		**0.474**	0.5000	0	94.7	85	115	10/02/2023
Sodium		0.0500		**2.58**	2.500	0	103.1	85	115	10/02/2023

Batch 212657 **SampType:** MS Units **mg/L**

SampID: 23091473-026CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**66.7**	2.500	62.50	168.8	75	125	10/02/2023
Magnesium		0.0500		**22.3**	2.500	19.33	117.2	75	125	10/02/2023
Potassium		0.100		**3.81**	2.500	1.240	102.8	75	125	10/02/2023
Silicon	*	0.0500		**7.22**	0.5000	6.601	124.7	75	125	10/02/2023
Sodium		0.0500		**37.9**	2.500	35.70	86.8	75	125	10/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212657 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-026CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**67.5**	2.500	62.50	198.4	66.72	1.10	10/02/2023
Magnesium		0.0500	S	**22.6**	2.500	19.33	132.4	22.26	1.69	10/02/2023
Potassium		0.100		**3.91**	2.500	1.240	106.6	3.809	2.49	10/02/2023
Silicon	*	0.0500	S	**7.40**	0.5000	6.601	159.7	7.224	2.40	10/02/2023
Sodium		0.0500	S	**39.0**	2.500	35.70	130.0	37.87	2.81	10/02/2023

Batch 212717 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212717

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	10/03/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/03/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/03/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	10/03/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/03/2023

Batch 212717 **SampType:** LCS Units **mg/L**

SampID: LCS-212717

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.58**	2.500	0	103.0	85	115	10/03/2023
Magnesium		0.0500		**2.45**	2.500	0	98.2	85	115	10/03/2023
Potassium		0.100		**2.61**	2.500	0	104.2	85	115	10/03/2023
Silicon	*	0.0500		**0.497**	0.5000	0	99.4	85	115	10/03/2023
Sodium		0.0500		**2.49**	2.500	0	99.8	85	115	10/03/2023

Batch 212717 **SampType:** MS Units **mg/L**

SampID: 23091473-031CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**56.9**	2.500	55.14	71.6	75	125	10/03/2023
Magnesium		0.0500		**18.1**	2.500	15.95	87.1	75	125	10/03/2023
Potassium		0.100		**3.90**	2.500	1.345	102.1	75	125	10/03/2023
Silicon	*	0.0500		**6.63**	0.5000	6.190	87.5	75	125	10/03/2023
Sodium		0.0500		**21.1**	2.500	19.22	75.2	75	125	10/03/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212717 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-031CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		**57.0**	2.500	55.14	76.0	56.93	0.19	10/03/2023
Magnesium		0.0500		**18.1**	2.500	15.95	86.2	18.13	0.12	10/03/2023
Potassium		0.100		**3.84**	2.500	1.345	99.7	3.897	1.55	10/03/2023
Silicon	*	0.0500		**6.63**	0.5000	6.190	88.0	6.628	0.03	10/03/2023
Sodium		0.0500	S	**20.8**	2.500	19.22	61.2	21.10	1.67	10/03/2023

Batch 212717 **SampType:** MS Units **mg/L**

SampID: 23091473-047CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**48.3**	2.500	44.82	139.2	75	125	10/03/2023
Magnesium		0.0500		**17.2**	2.500	14.43	110.2	75	125	10/03/2023
Potassium		0.100		**3.33**	2.500	0.7167	104.6	75	125	10/03/2023
Silicon	*	0.0500	S	**22.2**	0.5000	21.38	161.2	75	125	10/03/2023
Sodium		0.0500		**28.8**	2.500	26.52	90.0	75	125	10/03/2023

Batch 212717 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-047CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		**47.3**	2.500	44.82	100.8	48.30	2.01	10/03/2023
Magnesium		0.0500		**16.8**	2.500	14.43	93.8	17.19	2.42	10/03/2023
Potassium		0.100		**3.31**	2.500	0.7167	103.9	3.330	0.52	10/03/2023
Silicon	*	0.0500		**21.9**	0.5000	21.38	104.9	22.19	1.28	10/03/2023
Sodium		0.0500		**28.6**	2.500	26.52	81.2	28.77	0.77	10/03/2023

Batch 212976 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212976

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	10/09/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/09/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/09/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/09/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212976 **SampType:** LCS Units **mg/L**
SampID: LCS-212976

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.50**	2.500	0	100.1	85	115	10/09/2023
Magnesium		0.0500		**2.37**	2.500	0	94.7	85	115	10/09/2023
Potassium		0.100		**2.54**	2.500	0	101.7	85	115	10/09/2023
Sodium		0.0500		**2.43**	2.500	0	97.1	85	115	10/09/2023

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

Batch 212672 **SampType:** MBLK Units **mg/L**
SampID: MBLK-212672

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	10/03/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	10/05/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	10/03/2023

Batch 212672 **SampType:** LCS Units **mg/L**
SampID: LCS-212672

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.69**	2.000	0	84.5	80	120	10/03/2023
Iron		0.0250		**1.74**	2.000	0	87.0	80	120	10/05/2023
Manganese		0.0020		**0.455**	0.5000	0	91.1	80	120	10/03/2023

Batch 212672 **SampType:** MS Units **mg/L**
SampID: 23091473-022DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.77**	2.000	0	88.5	75	125	10/03/2023
Iron		0.0250		**1.80**	2.000	0.1759	81.4	75	125	10/05/2023
Manganese		0.0020		**0.433**	0.5000	0	86.6	75	125	10/03/2023

Batch 212672 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23091473-022DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**1.70**	2.000	0	85.0	1.769	3.98	10/03/2023
Iron		0.0250	R	**2.57**	2.000	0.1759	119.7	1.804	35.00	10/05/2023
Manganese		0.0020		**0.440**	0.5000	0	88.1	0.4328	1.72	10/03/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212672 **SampType:** MS Units **mg/L**
SampID: 23091473-023DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.66**	2.000	0	82.9	75	125	10/03/2023
Iron		0.0250		**1.75**	2.000	0.08038	83.2	75	125	10/05/2023
Manganese		0.0080		**9.21**	0.5000	8.755	91.5	75	125	10/04/2023

Batch 212672 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23091473-023DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**1.67**	2.000	0	83.4	1.657	0.72	10/03/2023
Iron		0.0250	S	**1.56**	2.000	0.08038	74.2	1.745	10.99	10/05/2023
Manganese		0.0080		**9.35**	0.5000	8.755	119.8	9.212	1.53	10/04/2023

Batch 212674 **SampType:** MBLK Units **mg/L**
SampID: MBLK-212674

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	10/03/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	10/04/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	10/03/2023

Batch 212674 **SampType:** LCS Units **mg/L**
SampID: LCS-212674

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.89**	2.000	0	94.4	80	120	10/03/2023
Iron		0.0250		**1.92**	2.000	0	96.1	80	120	10/04/2023
Manganese		0.0020		**0.484**	0.5000	0	96.8	80	120	10/03/2023

Batch 212674 **SampType:** MS Units **mg/L**
SampID: 23091473-029DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.84**	2.000	0	91.8	75	125	10/03/2023
Iron		0.0250		**2.81**	2.000	0.9849	91.1	75	125	10/04/2023
Manganese		0.0020		**0.621**	0.5000	0.1397	96.3	75	125	10/03/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212674 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23091473-029DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**1.88**	2.000	0	94.2	1.837	2.53	10/03/2023
Iron		0.0250		**2.86**	2.000	0.9849	93.5	2.807	1.74	10/04/2023
Manganese		0.0020		**0.634**	0.5000	0.1397	98.8	0.6213	2.00	10/03/2023

Batch 212674 **SampType:** MS Units **mg/L**
SampID: 23091473-037DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.74**	2.000	0	86.9	75	125	10/04/2023
Iron		0.0250		**1.77**	2.000	0.1009	83.4	75	125	10/05/2023
Manganese		0.0020		**0.551**	0.5000	0.1718	75.9	75	125	10/04/2023

Batch 212674 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23091473-037DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**1.87**	2.000	0	93.3	1.739	7.07	10/04/2023
Iron		0.0250		**1.63**	2.000	0.1009	76.6	1.769	8.03	10/05/2023
Manganese		0.0020		**0.602**	0.5000	0.1718	86.0	0.5513	8.76	10/04/2023

Batch 212689 **SampType:** MBLK Units **mg/L**
SampID: MBLK-212689

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	10/04/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	10/04/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	10/04/2023

Batch 212689 **SampType:** LCS Units **mg/L**
SampID: LCS-212689

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.91**	2.000	0	95.6	80	120	10/04/2023
Iron		0.0250	S	**3.36**	2.000	0	168.2	80	120	10/04/2023
Iron		0.0250		**1.76**	2.000	0	88.1	80	120	10/05/2023
Manganese		0.0020		**0.503**	0.5000	0	100.6	80	120	10/04/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212689 **SampType:** MS Units **mg/L**

SampID: 23091473-044DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**8.99**	2.000	7.136	92.5	75	125	10/04/2023
Iron		0.0250		**1.80**	2.000	0	89.8	75	125	10/04/2023
Manganese		0.0020		**0.477**	0.5000	0	95.3	75	125	10/04/2023

Batch 212689 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-044DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**9.07**	2.000	7.136	96.7	8.985	0.94	10/04/2023
Iron		0.0250		**1.82**	2.000	0	91.0	1.795	1.39	10/04/2023
Manganese		0.0020		**0.472**	0.5000	0	94.4	0.4765	0.94	10/04/2023

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

Batch 212544 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212544

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	10/02/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/29/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/29/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	09/29/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	09/29/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/29/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/29/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	10/02/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/29/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/29/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/29/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	09/29/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/29/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	09/29/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/29/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	09/29/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212544 **SampType:** LCS Units **mg/L**

SampID: LCS-212544

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.03**	2.000	0	101.7	80	120	10/02/2023
Antimony		0.0010		**0.533**	0.5000	0	106.6	80	120	10/02/2023
Arsenic		0.0010		**0.523**	0.5000	0	104.5	80	120	10/02/2023
Barium		0.0010		**2.17**	2.000	0	108.4	80	120	09/29/2023
Beryllium		0.0010		**0.0528**	0.0500	0	105.6	80	120	09/29/2023
Boron		0.0250		**0.491**	0.5000	0	98.1	80	120	09/29/2023
Cadmium		0.0010		**0.0523**	0.0500	0	104.7	80	120	09/29/2023
Chromium		0.0015		**0.205**	0.2000	0	102.5	80	120	10/02/2023
Cobalt		0.0010		**0.500**	0.5000	0	100.0	80	120	09/29/2023
Iron		0.0250		**2.10**	2.000	0	104.8	80	120	09/29/2023
Lead		0.0010		**0.543**	0.5000	0	108.5	80	120	09/29/2023
Lithium	*	0.0030		**0.568**	0.5000	0	113.5	80	120	09/29/2023
Manganese		0.0020		**0.515**	0.5000	0	103.0	80	120	10/02/2023
Molybdenum	*	0.0015		**0.495**	0.5000	0	99.0	80	120	09/29/2023
Selenium		0.0010		**0.495**	0.5000	0	99.1	80	120	10/02/2023
Thallium		0.0020		**0.259**	0.2500	0	103.8	80	120	09/29/2023

Batch 212544 **SampType:** MS Units **mg/L**

SampID: 23091473-035CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.20**	2.000	0.3315	93.4	75	125	10/02/2023
Antimony		0.0010		**0.493**	0.5000	0	98.6	75	125	10/02/2023
Arsenic		0.0010		**0.454**	0.5000	0	90.7	75	125	10/02/2023
Barium		0.0010		**1.96**	2.000	0.03486	96.1	75	125	10/02/2023
Beryllium		0.0010	S	**0.0710**	0.0500	0	141.9	75	125	09/29/2023
Cadmium		0.0010	S	**0.0708**	0.0500	0	141.5	75	125	09/29/2023
Chromium		0.0015		**0.179**	0.2000	0.001690	88.7	75	125	10/02/2023
Cobalt		0.0010		**0.444**	0.5000	0.0007748	88.7	75	125	10/02/2023
Iron		0.0250	S	**1.94**	2.000	0.5421	70.1	75	125	10/05/2023
Lead		0.0010	S	**0.718**	0.5000	0	143.6	75	125	09/29/2023
Lithium	*	0.0030		**0.476**	0.5000	0.005808	94.0	75	125	10/02/2023
Manganese		0.0020		**0.456**	0.5000	0.02214	86.8	75	125	10/02/2023
Molybdenum	*	0.0015	S	**0.671**	0.5000	0	134.3	75	125	09/29/2023
Selenium		0.0010		**0.433**	0.5000	0.005102	85.5	75	125	10/02/2023
Thallium		0.0020	S	**0.340**	0.2500	0	135.9	75	125	09/29/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212544 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-035CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**2.29**	2.000	0.3315	98.1	2.199	4.22	10/02/2023
Antimony		0.0010		**0.497**	0.5000	0	99.4	0.4929	0.82	10/02/2023
Arsenic		0.0010		**0.480**	0.5000	0	96.0	0.4536	5.62	10/02/2023
Barium		0.0010		**2.00**	2.000	0.03486	98.4	1.956	2.31	10/02/2023
Beryllium		0.0010	S	**0.0702**	0.0500	0	140.3	0.07097	1.13	09/29/2023
Cadmium		0.0010	S	**0.0691**	0.0500	0	138.2	0.07076	2.38	09/29/2023
Chromium		0.0015		**0.187**	0.2000	0.001690	92.9	0.1791	4.56	10/02/2023
Cobalt		0.0010		**0.472**	0.5000	0.0007748	94.3	0.4441	6.12	10/02/2023
Iron		0.0250		**2.17**	2.000	0.5421	81.4	1.945	10.91	10/05/2023
Lead		0.0010	S	**0.693**	0.5000	0	138.6	0.7179	3.52	09/29/2023
Lithium	*	0.0030		**0.490**	0.5000	0.005808	96.8	0.4760	2.90	10/02/2023
Manganese		0.0020		**0.487**	0.5000	0.02214	93.0	0.4562	6.58	10/02/2023
Molybdenum	*	0.0015	S	**0.655**	0.5000	0	131.1	0.6713	2.38	09/29/2023
Selenium		0.0010		**0.462**	0.5000	0.005102	91.4	0.4326	6.63	10/02/2023
Thallium		0.0020	S	**0.323**	0.2500	0	129.3	0.3396	4.97	09/29/2023

Batch 212596 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212596

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	10/02/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/02/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/02/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	10/03/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	10/02/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	10/02/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	10/02/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	10/02/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	10/02/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	10/02/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/02/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	10/02/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	10/02/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	10/02/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/02/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	10/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212596 **SampType:** LCS Units **mg/L**

SampID: LCS-212596

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.83**	2.000	0	91.6	80	120	10/02/2023
Antimony		0.0010		**0.559**	0.5000	0	111.9	80	120	10/02/2023
Arsenic		0.0010		**0.560**	0.5000	0	112.0	80	120	10/02/2023
Barium		0.0010		**1.92**	2.000	0	96.1	80	120	10/03/2023
Beryllium		0.0010		**0.0536**	0.0500	0	107.2	80	120	10/02/2023
Boron		0.0250		**0.466**	0.5000	0	93.3	80	120	10/02/2023
Cadmium		0.0010		**0.0515**	0.0500	0	103.0	80	120	10/02/2023
Chromium		0.0015		**0.203**	0.2000	0	101.7	80	120	10/02/2023
Cobalt		0.0010		**0.521**	0.5000	0	104.2	80	120	10/02/2023
Iron		0.0250		**2.17**	2.000	0	108.6	80	120	10/02/2023
Lead		0.0010		**0.492**	0.5000	0	98.3	80	120	10/02/2023
Lithium	*	0.0030		**0.534**	0.5000	0	106.7	80	120	10/02/2023
Manganese		0.0020		**0.496**	0.5000	0	99.2	80	120	10/02/2023
Molybdenum	*	0.0015		**0.500**	0.5000	0	100.0	80	120	10/02/2023
Selenium		0.0010		**0.468**	0.5000	0	93.6	80	120	10/02/2023
Thallium		0.0020		**0.246**	0.2500	0	98.5	80	120	10/02/2023

Batch 212596 **SampType:** MS Units **mg/L**

SampID: 23091473-017CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.97**	2.000	0	98.7	75	125	10/02/2023
Antimony		0.0010		**0.575**	0.5000	0	115.1	75	125	10/02/2023
Arsenic		0.0010		**0.558**	0.5000	0	111.6	75	125	10/02/2023
Barium		0.0010		**1.99**	2.000	0.02822	98.2	75	125	10/03/2023
Beryllium		0.0010		**0.0618**	0.0500	0	123.7	75	125	10/02/2023
Boron		0.0250		**7.07**	0.5000	6.576	99.7	75	125	10/02/2023
Cadmium		0.0010		**0.0540**	0.0500	0	108.0	75	125	10/02/2023
Chromium		0.0015		**0.210**	0.2000	0.0007244	104.8	75	125	10/02/2023
Cobalt		0.0010		**0.517**	0.5000	0	103.3	75	125	10/02/2023
Iron		0.0250		**2.09**	2.000	0.06497	101.3	75	125	10/02/2023
Lead		0.0010		**0.520**	0.5000	0	103.9	75	125	10/02/2023
Lithium	*	0.0030		**0.598**	0.5000	0	119.6	75	125	10/02/2023
Manganese		0.0020		**0.508**	0.5000	0.004257	100.7	75	125	10/02/2023
Molybdenum	*	0.0015		**0.504**	0.5000	0	100.8	75	125	10/02/2023
Selenium		0.0010		**0.459**	0.5000	0	91.9	75	125	10/02/2023
Thallium		0.0020		**0.265**	0.2500	0	106.0	75	125	10/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212596 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-017CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**1.88**	2.000	0	94.1	1.974	4.73	10/02/2023
Antimony		0.0010		**0.537**	0.5000	0	107.4	0.5755	6.90	10/02/2023
Arsenic		0.0010		**0.575**	0.5000	0	115.0	0.5578	3.00	10/02/2023
Barium		0.0010		**1.96**	2.000	0.02822	96.7	1.992	1.47	10/03/2023
Beryllium		0.0010		**0.0618**	0.0500	0	123.5	0.06185	0.15	10/02/2023
Boron		0.0250		**7.05**	0.5000	6.576	95.6	7.075	0.29	10/02/2023
Cadmium		0.0010		**0.0505**	0.0500	0	101.0	0.05398	6.66	10/02/2023
Chromium		0.0015		**0.204**	0.2000	0.0007244	101.7	0.2103	2.95	10/02/2023
Cobalt		0.0010		**0.515**	0.5000	0	102.9	0.5166	0.36	10/02/2023
Iron		0.0250		**2.13**	2.000	0.06497	103.4	2.090	1.99	10/02/2023
Lead		0.0010		**0.493**	0.5000	0	98.5	0.5195	5.34	10/02/2023
Lithium	*	0.0030		**0.588**	0.5000	0	117.5	0.5982	1.80	10/02/2023
Manganese		0.0020		**0.511**	0.5000	0.004257	101.3	0.5078	0.60	10/02/2023
Molybdenum	*	0.0015		**0.500**	0.5000	0	100.0	0.5042	0.88	10/02/2023
Selenium		0.0010		**0.479**	0.5000	0	95.7	0.4593	4.11	10/02/2023
Thallium		0.0020		**0.238**	0.2500	0	95.1	0.2650	10.89	10/02/2023

Batch 212657 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212657

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	10/06/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/03/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/03/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	10/03/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	10/03/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	10/03/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	10/03/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	10/03/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	10/03/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	10/05/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/03/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	10/03/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	10/03/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	10/03/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/03/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	10/03/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212657 **SampType:** LCS Units **mg/L**

SampID: LCS-212657

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.20**	2.000	0	110.2	80	120	10/06/2023
Antimony		0.0010		**0.494**	0.5000	0	98.8	80	120	10/03/2023
Arsenic		0.0010		**0.511**	0.5000	0	102.3	80	120	10/03/2023
Barium		0.0010		**2.01**	2.000	0	100.5	80	120	10/03/2023
Beryllium		0.0010		**0.0490**	0.0500	0	98.0	80	120	10/03/2023
Boron		0.0250		**0.518**	0.5000	0	103.6	80	120	10/03/2023
Cadmium		0.0010		**0.0490**	0.0500	0	97.9	80	120	10/03/2023
Chromium		0.0015		**0.191**	0.2000	0	95.3	80	120	10/03/2023
Cobalt		0.0010		**0.493**	0.5000	0	98.7	80	120	10/03/2023
Iron		0.0250		**1.95**	2.000	0	97.4	80	120	10/05/2023
Lead		0.0010		**0.502**	0.5000	0	100.5	80	120	10/03/2023
Lithium	*	0.0030		**0.504**	0.5000	0	100.9	80	120	10/03/2023
Manganese		0.0020		**0.495**	0.5000	0	99.0	80	120	10/03/2023
Molybdenum	*	0.0015		**0.489**	0.5000	0	97.8	80	120	10/03/2023
Selenium		0.0010		**0.478**	0.5000	0	95.6	80	120	10/03/2023
Thallium		0.0020		**0.265**	0.2500	0	106.1	80	120	10/03/2023

Batch 212657 **SampType:** MS Units **mg/L**

SampID: 23091473-026CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.06**	2.000	0.02151	101.8	75	125	10/06/2023
Antimony		0.0010		**0.472**	0.5000	0	94.3	75	125	10/03/2023
Arsenic		0.0010		**0.495**	0.5000	0	99.0	75	125	10/03/2023
Barium		0.0010		**1.99**	2.000	0.07412	95.9	75	125	10/03/2023
Beryllium		0.0010		**0.0489**	0.0500	0	97.7	75	125	10/03/2023
Boron		0.0250		**1.13**	0.5000	0.6680	91.8	75	125	10/03/2023
Cadmium		0.0010		**0.0471**	0.0500	0	94.2	75	125	10/03/2023
Chromium		0.0015		**0.187**	0.2000	0.001241	92.6	75	125	10/03/2023
Cobalt		0.0010		**0.471**	0.5000	0.0001511	94.1	75	125	10/03/2023
Iron		0.0250		**2.01**	2.000	0.2050	90.0	75	125	10/05/2023
Lead		0.0010		**0.511**	0.5000	0	102.3	75	125	10/03/2023
Lithium	*	0.0030		**0.495**	0.5000	0.001896	98.6	75	125	10/03/2023
Manganese		0.0020		**0.485**	0.5000	0.01078	94.8	75	125	10/03/2023
Molybdenum	*	0.0015		**0.485**	0.5000	0	97.0	75	125	10/04/2023
Selenium		0.0010		**0.457**	0.5000	0.001224	91.1	75	125	10/03/2023
Thallium		0.0020		**0.245**	0.2500	0	98.1	75	125	10/03/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212657 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-026CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**2.08**	2.000	0.02151	103.0	2.058	1.11	10/06/2023
Antimony		0.0010		**0.484**	0.5000	0	96.7	0.4717	2.46	10/03/2023
Arsenic		0.0010		**0.516**	0.5000	0	103.3	0.4950	4.26	10/03/2023
Barium		0.0010		**2.06**	2.000	0.07412	99.1	1.992	3.14	10/03/2023
Beryllium		0.0010		**0.0502**	0.0500	0	100.5	0.04887	2.74	10/03/2023
Boron		0.0250		**1.23**	0.5000	0.6680	112.1	1.127	8.62	10/03/2023
Cadmium		0.0010		**0.0475**	0.0500	0	95.0	0.04712	0.78	10/03/2023
Chromium		0.0015		**0.192**	0.2000	0.001241	95.2	0.1865	2.71	10/03/2023
Cobalt		0.0010		**0.485**	0.5000	0.0001511	97.0	0.4707	3.03	10/03/2023
Iron		0.0250		**1.93**	2.000	0.2050	86.2	2.005	3.91	10/05/2023
Lead		0.0010		**0.514**	0.5000	0	102.8	0.5115	0.45	10/03/2023
Lithium	*	0.0030		**0.509**	0.5000	0.001896	101.5	0.4951	2.81	10/03/2023
Manganese		0.0020		**0.495**	0.5000	0.01078	96.9	0.4848	2.19	10/03/2023
Molybdenum	*	0.0015		**0.499**	0.5000	0	99.8	0.4851	2.80	10/04/2023
Selenium		0.0010		**0.481**	0.5000	0.001224	96.0	0.4568	5.21	10/03/2023
Thallium		0.0020		**0.250**	0.2500	0	100.2	0.2452	2.12	10/03/2023

Batch 212717 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212717

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	10/04/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/04/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/04/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	10/04/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	10/04/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	10/04/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	10/04/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	10/04/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	10/04/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	10/09/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/04/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	10/04/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	10/04/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	10/04/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/04/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	10/04/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212717 **SampType:** LCS Units **mg/L**
SampID: LCS-212717

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.07**	2.000	0	103.5	80	120	10/04/2023
Antimony		0.0010		**0.547**	0.5000	0	109.4	80	120	10/04/2023
Arsenic		0.0010		**0.512**	0.5000	0	102.5	80	120	10/04/2023
Barium		0.0010		**2.16**	2.000	0	107.9	80	120	10/04/2023
Beryllium		0.0010		**0.0506**	0.0500	0	101.2	80	120	10/04/2023
Boron		0.0250		**0.521**	0.5000	0	104.2	80	120	10/04/2023
Cadmium		0.0010		**0.0517**	0.0500	0	103.4	80	120	10/04/2023
Chromium		0.0015		**0.201**	0.2000	0	100.6	80	120	10/04/2023
Cobalt		0.0010		**0.495**	0.5000	0	99.1	80	120	10/04/2023
Iron		0.0250		**1.71**	2.000	0	85.4	80	120	10/09/2023
Lead		0.0010		**0.542**	0.5000	0	108.4	80	120	10/04/2023
Lithium	*	0.0030		**0.531**	0.5000	0	106.2	80	120	10/04/2023
Manganese		0.0020		**0.521**	0.5000	0	104.2	80	120	10/04/2023
Molybdenum	*	0.0015		**0.495**	0.5000	0	99.1	80	120	10/04/2023
Selenium		0.0010		**0.497**	0.5000	0	99.3	80	120	10/04/2023
Thallium		0.0020		**0.254**	0.2500	0	101.5	80	120	10/04/2023

Batch 212717 **SampType:** MS Units **mg/L**
SampID: 23091473-031CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.09**	2.000	0.1052	99.4	75	125	10/04/2023
Antimony		0.0010		**0.529**	0.5000	0	105.9	75	125	10/04/2023
Arsenic		0.0010		**0.496**	0.5000	0.0005566	99.0	75	125	10/04/2023
Barium		0.0010		**2.17**	2.000	0.1183	102.4	75	125	10/04/2023
Beryllium		0.0010		**0.0507**	0.0500	0	101.5	75	125	10/04/2023
Boron		0.0250	S	**1.19**	0.5000	0.8962	58.8	75	125	10/04/2023
Cadmium		0.0010		**0.0507**	0.0500	0	101.3	75	125	10/04/2023
Chromium		0.0015		**0.196**	0.2000	0.001699	97.0	75	125	10/04/2023
Cobalt		0.0010		**0.476**	0.5000	0.0005268	95.1	75	125	10/04/2023
Iron		0.0250		**3.25**	2.000	0.9571	114.7	75	125	10/09/2023
Lead		0.0010		**0.531**	0.5000	0	106.2	75	125	10/04/2023
Lithium	*	0.0030		**0.515**	0.5000	0	103.0	75	125	10/04/2023
Manganese		0.0020		**0.558**	0.5000	0.05514	100.7	75	125	10/09/2023
Molybdenum	*	0.0015		**0.480**	0.5000	0.004482	95.0	75	125	10/04/2023
Selenium		0.0010		**0.476**	0.5000	0	95.1	75	125	10/04/2023
Thallium		0.0020		**0.248**	0.2500	0	99.1	75	125	10/04/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212717 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-031CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**2.11**	2.000	0.1052	100.5	2.093	1.02	10/04/2023
Antimony		0.0010		**0.527**	0.5000	0	105.5	0.5293	0.36	10/04/2023
Arsenic		0.0010		**0.484**	0.5000	0.0005566	96.7	0.4955	2.30	10/04/2023
Barium		0.0010		**2.19**	2.000	0.1183	103.5	2.167	0.94	10/04/2023
Beryllium		0.0010		**0.0502**	0.0500	0	100.4	0.05074	1.09	10/04/2023
Boron		0.0250	S	**1.19**	0.5000	0.8962	57.8	1.190	0.42	10/04/2023
Cadmium		0.0010		**0.0491**	0.0500	0	98.2	0.05067	3.13	10/04/2023
Chromium		0.0015		**0.196**	0.2000	0.001699	97.1	0.1957	0.12	10/04/2023
Cobalt		0.0010		**0.477**	0.5000	0.0005268	95.2	0.4761	0.13	10/04/2023
Iron		0.0250	R	**2.49**	2.000	0.9571	76.9	3.252	26.34	10/09/2023
Lead		0.0010		**0.527**	0.5000	0	105.5	0.5308	0.64	10/04/2023
Lithium	*	0.0030		**0.519**	0.5000	0	103.8	0.5151	0.71	10/04/2023
Manganese		0.0020		**0.556**	0.5000	0.05514	100.1	0.5585	0.53	10/09/2023
Molybdenum	*	0.0015		**0.478**	0.5000	0.004482	94.7	0.4796	0.29	10/04/2023
Selenium		0.0010		**0.471**	0.5000	0	94.2	0.4756	0.96	10/04/2023
Thallium		0.0020		**0.244**	0.2500	0	97.5	0.2478	1.63	10/04/2023

Batch 212717 **SampType:** MS Units **mg/L**

SampID: 23091473-047CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.97**	2.000	0.03177	97.0	75	125	10/04/2023
Antimony		0.0010		**0.524**	0.5000	0	104.9	75	125	10/04/2023
Arsenic		0.0010		**0.550**	0.5000	0.001276	109.7	75	125	10/09/2023
Barium		0.0010		**2.32**	2.000	0.2419	103.7	75	125	10/04/2023
Beryllium		0.0010		**0.0495**	0.0500	0	99.0	75	125	10/04/2023
Boron		0.0250		**0.522**	0.5000	0.03137	98.1	75	125	10/04/2023
Cadmium		0.0010		**0.0495**	0.0500	0	99.0	75	125	10/04/2023
Chromium		0.0015		**0.194**	0.2000	0	96.8	75	125	10/04/2023
Cobalt		0.0010		**0.505**	0.5000	0.003189	100.4	75	125	10/09/2023
Iron		0.0250		**2.87**	2.000	0.6584	110.8	75	125	10/09/2023
Lead		0.0010		**0.526**	0.5000	0	105.2	75	125	10/04/2023
Lithium	*	0.0030		**0.515**	0.5000	0.002571	102.4	75	125	10/04/2023
Manganese		0.0020		**0.690**	0.5000	0.1897	100.0	75	125	10/09/2023
Molybdenum	*	0.0015		**0.511**	0.5000	0.001260	101.9	75	125	10/10/2023
Selenium		0.0010		**0.477**	0.5000	0	95.3	75	125	10/04/2023
Thallium		0.0020		**0.245**	0.2500	0	98.1	75	125	10/04/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212717 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-047CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**2.03**	2.000	0.03177	100.1	1.971	3.10	10/04/2023
Antimony		0.0010		**0.542**	0.5000	0	108.4	0.5244	3.26	10/04/2023
Arsenic		0.0010		**0.543**	0.5000	0.001276	108.3	0.5498	1.33	10/09/2023
Barium		0.0010		**2.48**	2.000	0.2419	111.9	2.316	6.84	10/04/2023
Beryllium		0.0010		**0.0502**	0.0500	0	100.5	0.04949	1.48	10/04/2023
Boron		0.0250		**0.521**	0.5000	0.03137	97.9	0.5218	0.20	10/04/2023
Cadmium		0.0010		**0.0506**	0.0500	0	101.2	0.04950	2.21	10/04/2023
Chromium		0.0015		**0.198**	0.2000	0	99.1	0.1935	2.43	10/04/2023
Cobalt		0.0010		**0.505**	0.5000	0.003189	100.4	0.5053	0.00	10/09/2023
Iron		0.0250	SR	**3.71**	2.000	0.6584	152.8	2.874	25.50	10/09/2023
Lead		0.0010		**0.519**	0.5000	0	103.8	0.5258	1.30	10/04/2023
Lithium	*	0.0030		**0.517**	0.5000	0.002571	102.9	0.5146	0.53	10/04/2023
Manganese		0.0020		**0.695**	0.5000	0.1897	101.0	0.6898	0.70	10/09/2023
Molybdenum	*	0.0015		**0.507**	0.5000	0.001260	101.2	0.5105	0.69	10/10/2023
Selenium		0.0010		**0.489**	0.5000	0	97.8	0.4765	2.55	10/04/2023
Thallium		0.0020		**0.247**	0.2500	0	98.8	0.2452	0.77	10/04/2023

Batch 212976 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212976

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	10/10/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	10/10/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	10/10/2023

Batch 212976 **SampType:** LCS Units **mg/L**

SampID: LCS-212976

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		**0.518**	0.5000	0	103.6	85	115	10/10/2023
Boron		0.0250		**0.499**	0.5000	0	99.9	80	120	10/10/2023
Selenium		0.0010		**0.471**	0.5000	0	94.3	80	120	10/10/2023

Batch 212976 **SampType:** MS Units **mg/L**

SampID: 23091473-035CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250	S	**1.15**	0.5000	0.8993	50.7	75	125	10/10/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

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

Batch 212976 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091473-035CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.0250	S	**1.12**	0.5000	0.8993	43.4	1.153	3.24	10/10/2023

SW-846 7470A (TOTAL)

Batch 212516 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212516

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	09/29/2023

Batch 212516 **SampType:** LCS Units **mg/L**

SampID: LCS-212516

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00522**	0.0050	0	104.3	85	115	09/29/2023

Batch 212516 **SampType:** MS Units **mg/L**

SampID: 23091473-041CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00512**	0.0050	0	102.4	75	125	09/29/2023

Batch 212516 **SampType:** MSD Units **mg/L** RPD Limit: **15**

SampID: 23091473-041CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00498**	0.0050	0	99.6	0.005119	2.74	09/29/2023

Batch 212711 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212711

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	10/03/2023

Batch 212711 **SampType:** LCS Units **mg/L**

SampID: LCS-212711

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00425**	0.0050	0	85.1	85	115	10/03/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091473

Client Project: JOP-23Q3 **Report Date:** 16-Nov-23

SW-846 7470A (TOTAL)

Batch 212711 **SampType:** MS Units **mg/L**
SampID: 23091473-006CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00520**	0.0050	0.00006420	102.7	75	125	10/03/2023

Batch 212711 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-006CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00518**	0.0050	0.00006420	102.3	0.005198	0.40	10/03/2023

Batch 212712 **SampType:** MBLK Units **mg/L**
SampID: MBLK-212712

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	10/03/2023

Batch 212712 **SampType:** LCS Units **mg/L**
SampID: LCS-212712

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00519**	0.0050	0	103.9	85	115	10/03/2023

Batch 212712 **SampType:** MS Units **mg/L**
SampID: 23091473-025CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00515**	0.0050	0.00006360	101.8	75	125	10/03/2023

Batch 212712 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091473-025CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00528**	0.0050	0.00006360	104.4	0.005151	2.52	10/03/2023

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091473
Client Project: JOP-23Q3
Report Date: 16-Nov-23

Carrier: Frank Barthol
Received By: MBP

Completed by: Amber Dilallo
On: 26-Sep-23

Reviewed by: Ellie Hopkins
On: 29-Sep-23

Pages to follow: Chain of custody 11 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	5.6	
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 - 9/26/2023 5:01:57 PM

pH strip #90719. - amberdilallo - 9/28/2023 9:07:58 AM

Samples collected on 9/27/23 were delivered to the laboratory on 9/27/23 at 1842 (on ice 5.6C - LTG1). AMD/ERH 9/28/23

pH strip #90719. - amberdilallo - 9/29/2023 8:00:30 AM

Samples collected on 9/28/23 were delivered to the laboratory on 9/28/23 at 1505 (on ice 5.8C - LTG1). AMD/ERH 9/29/23

Samples collected on 9/28/23 (G107 and G151) were delivered to the laboratory on 9/29/23 at 0930 (on ice 5.6C - LTG5). Samples were collected in unpreserved containers. Nitric Acid (92447) preservative was added to G107 upon arrival. G151 was split, filtered for the dissolved parameters, and preserved with Nitric Acid (92447) and Sulfuric Acid (90128). - lmaddox - 9/29/2023 12:32:04 PM

Samples collected on 9/28/23 were delivered to the laboratory on 9/28/23 at 0930 (on ice 5.6C - LTG5). LM/ERH 9/29/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Joppa	Report To:	Brian Voelker/Sam Davies	Attention:	Roger Faughn
Address:	2100 Portland Road	Copy To:	Roger Faughn	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com		roger.faughn@vistracorp.com	Address:	see Section A
	samantha.davies@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-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G01D			9/25/23	1307		6	2	2	2							✓		✓		✓		23091473-001
2	G02D			9/25/23	1406		6	2	2	2							✓		✓		✓		002
3	G03			9/26/23	1235		6	2	2	2							✓		✓		✓		003
4	G05						6	2	2	2							✓		✓		✓		004
5	G06						6	2	2	2							✓		✓		✓		005
6	G07						6	2	2	2							✓		✓		✓		006
7	G08						6	2	2	2							✓		✓		✓		007
8	G09						6	2	2	2							✓		✓		✓		008
9	G10						6	2	2	2							✓		✓		✓		009
10	G101-LF						2	1		1								✓					010
11	G102						2	1		1								✓					011
12	G105						2	1		1								✓					012
13	G107						2	1		1								✓					013
14	G109						2	1		1								✓					014
15	G11			9/26/23	1147		6	2	2	2							✓		✓		✓		015
16	G111-LF						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-23Q3 Rev 2	Tracy Carroll	9/26/23	1315	FB	9.26.23	1315	5.6	Y	N	Y
	FB	9.26.23	1600	Morgan Petri	9/26/23	1600				

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Tracy Carroll
SIGNATURE of SAMPLER: Tracy Carroll
DATE Signed (MM/DD/YY): 9/26/23

pH checked 90719-MP 9/26

LTA5

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/Sam Davies	Attention:	Roger Faughn
Address:	2100 Portland Road	Copy To:	Roger Faughn	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com		roger.faughn@vistracorp.com	Address:	see Section A
	samantha.davies@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-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G12D						6	2	2	2										✓			23091473-017
2	G12S						6	2	2	2										✓			018
3	G13D						6	2	2	2										✓			019
4	G13S						6	2	2	2										✓			020
5	G151						6	2	2	2										✓			021
6	G153						6	2	2	2										✓			022
7	G16S						6	2	2	2										✓			023
8	G18S						6	2	2	2										✓			024
9	G19D						6	2	2	2										✓			025
10	G19S						6	2	2	2										✓			026
11	G20D						6	2	2	2										✓			027
12	G20S						6	2	2	2										✓			028
13	G21D						6	2	2	2										✓			029
14	G21S						6	2	2	2										✓			030
15	G22D						6	2	2	2										✓			031
16	G22S						6	2	2	2										✓			032

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q3 Rev 2	Tracy Carroll / AB	9/26/23	1315	FB	9.26	1315	
		9.26.23	1600	Nhuyen Perez	9/26/23	1600	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll

DATE Signed (MM/DD/YY): 9/26/23

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

pH checked 90719 - MP 9/26

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
Email To:	Brian.Voelker@VistraCorp.com
	samantha.davies@vistracorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker/Sam Davies
Copy To:	Roger Faughn
	roger.faughn@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	JOP-257-401	JOP-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G23S						6	2	2	2										✓			23091473-033
2	G24S						6	2	2	2										✓			034
3	G51D			9/25/23	1536		6	2	2	2							✓		✓		✓		035
4	G52D			9/26/23	1030		6	2	2	2							✓		✓		✓		036
5	G53D						6	2	2	2							✓		✓		✓		037
6	G54D			9/26/23	1735		6	2	2	2							✓		✓		✓		038
7	SG02						0										✓	✓	✓				039
8	Well 2			9/26/23	0908		6	2	2	2										✓			040
9	Well 3			9/26/23	0958		6	2	2	2										✓			041
10	XPW01			9/26/23	926		6	2	2	2									✓		✓		042
11	XPW02			9/26/23	1011		6	2	2	2									✓		✓		043
12	XPW03			9/26/23	1051		6	2	2	2									✓		✓		044
13	XSG01						0										✓		✓				045
14	Field Blank						6	2	2	2							✓	✓	✓	✓	✓		046
15	G52D Duplicate			9/26/23	1030		6	2	2	2							✓		✓		✓		047
16	G12S Duplicate						6	2	2	2										✓			048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q3 Rev 2	Tracy Carroll	9/26/23	1315	PB	9.26.23	1315	
	PB	9.26.23	1600	Morgan Perrin	9/26/23	1600	

pH checked 90719- MP 9/26

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll

DATE Signed (MM/DD/YY): 9/26/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Company:	Vistra Corp-Joppa	Report To:	Brian Voelker/Sam Davies	Attention:	Roger Faughn
Address:	2100 Portland Road	Copy To:	Roger Faughn	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com		roger.faughn@vistracorp.com	Address:	see Section A
	samantha.davies@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-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G01D						6	2	2	2							✓		✓		✓		23091493-001
2	G02D						6	2	2	2							✓		✓		✓		002
3	G03						6	2	2	2							✓		✓		✓		003
4	G05			9/27/23	10:14		6	2	2	2							✓		✓		✓		004
5	G06			9/27/23	11:16		6	2	2	2							✓		✓		✓		005
6	G07			9/27/23	11:57		6	2	2	2							✓		✓		✓		006
7	G08			9/26/23	14:32		6	2	2	2							✓		✓		✓		007
8	G09			9-26-23	14:10		6	2	2	2							✓		✓		✓		008
9	G10			9-26-23	13:32		6	2	2	2							✓		✓		✓		009
10	G101-LF			9-27-23	13:00		2	1		1								✓					010
11	G102			9-27-23	10:14		2	1		1								✓					011
12	G105			9-27-23	09:03		2	1		1								✓					012
13	G107 Dry during purge			9-27-23	9:47		2	1		1								✓					013
14	G109			9-26-23	15:28		2	1		1								✓					014
15	G11						6	2	2	2							✓		✓		✓		015
16	G111-LF			9-26-23	14:57		2	1		1								✓					016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
JOP-23Q3 Rev 2	J. Colp	9-27	1842	Amber Dilallo	9/27/23	1842	5.6	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: Justin Colp
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 9-27-23

pH ✓ 9071A LTCU
9/28/23

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Joppa	Report To:	Brian Voelker/Sam Davies	Attention:	Roger Faughn
Address:	2100 Portland Road	Copy To:	Roger Faughn	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com		roger.faughn@vistracorp.com	Address:	see Section A
	samantha.davies@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

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DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
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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-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G12D						6	2	2	2										✓			23291473-017
2	G12S						6	2	2	2										✓			018
3	G13D			9/27/23	1337		6	2	2	2										✓			019
4	G13S			9/27/23	1314		6	2	2	2										✓			020
5	G151						6	2	2	2										✓			021
6	G153			9/27/23	904		6	2	2	2										✓			022
7	G16S			9-27-23	13:42		6	2	2	2										✓			023
8	G18S			9-27-23	11:49		6	2	2	2										✓			024
9	G19D						6	2	2	2										✓			025
10	G19S						6	2	2	2										✓			026
11	G20D			9-27-23	14:23		6	2	2	2										✓			027
12	G20S			9-27-23	14:42		6	2	2	2										✓			028
13	G21D			9/27/23	1449		6	2	2	2										✓			029
14	G21S			9/27/23	1426		6	2	2	2										✓			030
15	G22D						6	2	2	2										✓			031
16	G22S						6	2	2	2										✓			032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q3 Rev 2	J. Colp	9/27	1842	Amber Villalo	9/27/23	1842	

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Justin Colp		Temp in °C	
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 9-27-23	Received on Ice (Y/N)	
			Custody Sealed Cooler (Y/N)	
			Samples Intact (Y/N)	

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company:	Vistra Corp-Joppa
Address:	2100 Portland Road
Email To:	Brian.Voelker@VistraCorp.com
	samantha.davies@vistracorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker/Sam Davies
Copy To:	Roger Faughn
	roger.faughn@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Roger Faughn
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-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G23S			9-27-23	12:32		6	2	2	2											✓			23091473-033
2	G24S						6	2	2	2											✓			034
3	G51D						6	2	2	2								✓		✓		✓		035
4	G52D						6	2	2	2								✓		✓		✓		036
5	G53D			9/27/23	931		6	2	2	2								✓		✓		✓		037
6	G54D						6	2	2	2								✓		✓		✓		038
7	SG02						0											✓	✓	✓				039
8	Well 2						6	2	2	2											✓			040
9	Well 3						6	2	2	2											✓			041
10	XPW01						6	2	2	2										✓		✓		042
11	XPW02						6	2	2	2										✓		✓		043
12	XPW03						6	2	2	2										✓		✓		044
13	XSG01						0											✓		✓				045
14	Field Blank						6	2	2	2								✓	✓	✓	✓	✓		046
15	G52D Duplicate						6	2	2	2								✓		✓		✓		047
16	G12S Duplicate						6	2	2	2											✓			048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q3 Rev 2	J. Colp	9-27	1842	Amber DiBello	9/27/23	1842	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9-27-23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company:	Vistra Corp-Joppa
Address:	2100 Portland Road
Email To:	Brian.Voelker@VistraCorp.com samantha.davies@vistracorp.com
Phone:	(217) 753-8911
Fax:	
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker/Sam Davies
Copy To:	Roger Faughn roger.faughn@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	JOP-257-401	JOP-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./Lab I.D.
1	G01D						6	2	2	2							✓		✓		✓		23091473-001
2	G02D						6	2	2	2							✓		✓		✓		002
3	G03						6	2	2	2							✓		✓		✓		003
4	G05						6	2	2	2							✓		✓		✓		004
5	G06						6	2	2	2							✓		✓		✓		005
6	G07						6	2	2	2							✓		✓		✓		006
7	G08						6	2	2	2							✓		✓		✓		007
8	G09						6	2	2	2							✓		✓		✓		008
9	G10						6	2	2	2							✓		✓		✓		009
10	G101-LF						2	1		1								✓					010
11	G102						2	1		1								✓					011
12	G105						2	1		1								✓					012
13	G107						2	1		1								✓					013
14	G109						2	1		1								✓					014
15	G11						6	2	2	2							✓		✓		✓		015
16	G111-LF						2	1		1								✓					016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
JOP-23Q3 Rev 2	[signature]	9-28-23	15:05	[signature] TE 9/28/23	9-28-23	15:05	5.8	Y	N	Y
				[signature]	9/28/23	1505				
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brett Gillihan

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 9-28-23

PH V 90719 LTG1

23091473

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
Email To:	Brian.Voelker@VistraCorp.com samantha.davies@vistracorp.com
Phone:	(217) 753-8911
Fax:	
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker/Sam Davies
Copy To:	Roger Faughn roger.faughn@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: IL

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	JOP-257-401	JOP-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G12D			9/28/23	0949		6	2	2	2										✓			23091473-017
2	G12S			9/28/23	0919		6	2	2	2										✓			018
3	G13D						6	2	2	2										✓			019
4	G13S						6	2	2	2										✓			020
5	G151						6	2	2	2										✓			021
6	G153						6	2	2	2										✓			022
7	G16S						6	2	2	2										✓			023
8	G18S						6	2	2	2										✓			024
9	G19D			9-28-23	09:16		6	2	2	2										✓			025
10	G19S			9-28-23	09:47		6	2	2	2										✓			026
11	G20D						6	2	2	2										✓			027
12	G20S						6	2	2	2										✓			028
13	G21D						6	2	2	2										✓			029
14	G21S						6	2	2	2										✓			030
15	G22D			9-28-23	10 22		6	2	2	2										✓			031
16	G22S			9-28-23	10 13		6	2	2	2										✓			032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
JOP-23Q3 Rev 2	[signature]	9-28-23	15:05	[signature]	9-28-23	15:15
				Morgan Peate	9/28/23	1905

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brett Gillihan

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 9-28-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Joppa	Report To:	Brian Voelker/Sam Davies	Attention:	Roger Faughn
Address:	2100 Portland Road	Copy To:	Roger Faughn	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com		roger.faughn@vistracorp.com	Address:	see Section A
	samantha.davies@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-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G23S						6	2	2	2										✓			23091473-033
2	G24S			9-27-23	834		6	2	2	2										✓			034
3	G51D						6	2	2	2							✓		✓		✓		035
4	G52D						6	2	2	2							✓		✓		✓		036
5	G53D						6	2	2	2							✓		✓		✓		037
6	G54D						6	2	2	2							✓		✓		✓		038
7	SG02						0										✓	✓	✓				039
8	Well 2						6	2	2	2										✓			040
9	Well 3						6	2	2	2										✓			041
10	XPW01						6	2	2	2									✓		✓		042
11	XPW02						6	2	2	2									✓		✓		043
12	XPW03						6	2	2	2									✓		✓		044
13	XSG01						0										✓		✓				045
14	Field Blank			9-28-23	11 16		6	2	2	2							✓	✓	✓	✓	✓		046
15	G52D Duplicate						6	2	2	2							✓		✓		✓		047
16	G12S Duplicate			9-23-23	0919		6	2	2	2										✓			048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q3 Rev 2	Brett Gillihan	9-28-23	15:05	~~Brett Gillihan~~ TE 9/28/23	9-28-23	15:05	
				Morgan Perrin	9/28/23	1505	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brett Gillihan
SIGNATURE of SAMPLER: Brett Gillihan
DATE Signed (MM/DD/YY): 9-28-23

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

ATTACHMENT B
845 QUARTERLY REPORT - QUARTER 3, 2023
JOPPA POWER PLANT - ASH POND
JOP-845-401

23091473

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 3

Section A Required Client Information:

Company:	Vistra Corp-Joppa
Address:	2100 Portland Road
Email To:	Brian.Voelker@VistraCorp.com
	samantha.davies@vistracorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker/Sam Davies
Copy To:	Roger Faughn
	roger.faughn@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	JOP-257-401	JOP-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G01D																						
2	G02D																						
3	G03																						
4	G05																						
5	G06																						
6	G07																						
7	G08																						
8	G09																						
9	G10																						
10	G101-LF																						
11	G102																						
12	G105		SK	~~09/28/23~~																			
13	G107			09/29/23	1523		2	1		1								✓					23091473-013
14	G109																						
15	G11																						
16	G111-LF																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
JOP-23Q3 Rev 2		09/29/23	0930	Morgan Petra	9/29/23	0930	Y	N	

Samples were collected in unp containers (plastic). HNO_3(92447) was added to G107.
G151 was split, filtered, & preserved w/ HNO_3(92447) & H_2SO_4(90128) upon arrival.. LM 9/29

5.6° #5

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Ritzel

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 9/29/23

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

23091473

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/Sam Davies	Attention:	Roger Faughn
Address:	2100 Portland Road	Copy To:	Roger Faughn	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com		roger.faughn@vistracorp.com	Address:	see Section A
	samantha.davies@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-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G12D																					
2	G12S																					
3	G13D																					
4	G13S																					
5	G151			09/25/23	1545		6	2	2									✓				23091473-021
6	G153																					
7	G16S																					
8	G18S																					
9	G19D																					
10	G19S																					
11	G20D																					
12	G20S																					
13	G21D																					
14	G21S																					
15	G22D																					
16	G22S																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q3 Rev 2		9/28/23	0930		9/29/23	0930	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jack Riley

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 9/29/23

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

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473
Technician	JR, BG, JC, TC

WO Sample	Well ID	Date	Time	Time (adj)	DTB (ft)	DTW (ft)	MP Elev (ft)	GW Elev (ft)	Well Condition	Sampling Device	Samling Method	Field Filtered	Appearance	Odor	Color	Turbidity (visible)	Ferrous Iron	Comments
001A	G01D	09/25/2023	1307	1307		44.16			Good	Bladder Pump	Low Flow	Yes	Clear	None	None		0.049	
002A	G02D	09/25/2023	1406	1406		44.46			Good	Bladder Pump	Low Flow	Yes	Clear	None	None		0.021	
003A	G03	09/26/2023	1235	1235		39.49			Good	Bladder Pump	Low Flow	Yes	Cloudy	None	None		0.032	
004A	G05	09/27/2023	1014	1014		44.47			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None		0.389	
005A	G06	09/27/2023	1116	1116		41.49			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None		0.034	
006A	G07	09/27/2023	1157	1157		41.58			Good	Bladder Pump	Low Flow	Yes	Clear	None	None		0.119	
007A	G08	09/26/2023	1432	1432		32.69			Good	Bladder Pump	Low Flow	Yes	Cloudy	Slight	Lt. Brown		1.009	
008A	G09	09/26/2023	1410	1410		41.48			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	4.126	
009A	G10	09/26/2023	1331	1331		41.8			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	5.633	
010A	G101-LF	09/27/2023	1103	1103		43.38			Good	Bladder Pump	Low Flow	No	Cloudy	None	Rust	Heavy		
011A	G102	09/27/2023	1014	1014		59			Good	Bladder Pump	Low Flow	No	Cloudy	None	None	Slight		
012A	G105	09/27/2023	903	0903		56.18			Good	Bladder Pump	Low Flow	No	Clear	None	None	None		
013A	G107	09/28/2023	1523	1523		55.51			Needs Work	Submersible Pump	Low Flow	No						pump in well does not work
014A	G109	09/26/2023	1528	1528		52.55			Good	Bladder Pump	Low Flow	No	Clear	None	None	None		
015A	G11	09/26/2023	1147	1147		48.69			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	3.244	
016A	G111-LF	09/26/2023	1457	1457		50.61			Good	Bladder Pump	Low Flow	No	Clear	None	None	None		
017A	G12D	09/28/2023	949	0949		48.11			Good	Bladder Pump	Low Flow	Yes	Clear	None	None		0.446	
018A	G12S	09/28/2023	919	0919		48.17			Good	Bladder Pump	Low Flow	Yes	Clear	None	None		2.765	
019A	G13D	09/27/2023	1337	1337		42.88			Good	Bladder Pump	Low Flow	Yes	Clear	None	None		0.055	
020A	G13S	09/27/2023	1314	1314		42.9			Good	Bladder Pump	Low Flow	Yes	Clear	None	None		0.022	
021A	G151	09/28/2023	1545	1545		39.33			Good	Bailer	Low Flow							
022A	G153	09/27/2023	904	0904		37.81			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None		0.045	ODO takes awhile to drop and was still high after reseting cell
023A	G16S	09/27/2023	1342	1342		45.58			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None		
024A	G18S	09/27/2023	1149	1149		38.88			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	4.1	
025A	G19D	09/28/2023	916	0916		46.65			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	1.726	
026A	G19S	09/28/2023	947	0947		46.78			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	2.884	
027A	G20D	09/27/2023	1423	1423		45.08			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	2.695	
028A	G20S	09/27/2023	1442	1442		44.49			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	2.67	
029A	G21D	09/27/2023	1449	1449		46.27			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None		0.983	
030A	G21S	09/27/2023	1426	1426		46.81			Good	Bladder Pump	Low Flow	Yes	Clear	None	None		0.071	
031A	G22D	09/28/2023	1028	1028		46.99			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None		0.886	
032A	G22S	09/28/2023	1022	1022		46.84			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	3.713	
033A	G23S	09/27/2023	1232	1232		46.06			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	3.613	
034A	G24S	09/28/2023	834	0834		48.6			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	3.54	
035A	G51D	09/25/2023	1536	1536		45.38			Good	Bladder Pump	Low Flow	Yes	Clear	None	None		0.067	
036A	G52D	09/26/2023	1235	1235		28.81			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	Slight	3.767	
037A	G53D	09/27/2023	931	0931		39.36			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None		0.102	
038A	G54D	09/26/2023	1235	1235		43.85			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	Slight	3.767	
039A	SG02	09/25/2023																Broken
040A	well2	09/26/2023	908	0908		47.09			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	2.377	
041A	well3	09/26/2023	958	0958		33.75			Good	Bladder Pump	Low Flow	Yes	Clear	None	None	None	3.221	
042A	XPW01	09/26/2023	926	0926		16.84			Good	Bladder Pump	Low Flow	Yes	Clear	Moderate	None		0.938	
043A	XPW02	09/26/2023	1011	1011		6.56			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None		3.702	
044A	XPW03	09/26/2023	1051	1051		14.02			Good	Bladder Pump	Low Flow	Yes	Clear	Slight	None		0.015	
045A	XSG01	09/25/2023																Insufficient water
046A	FB	09/28/2023	1116	1116														
047A	G52DDUP	09/26/2023	1030	1030		28.81												
048A	G12SDUP	09/28/2023	919	0919		48.17												

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473
Technician	JR, BG, JC, TC

Well ID	Date	Time	Time (adj)	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)	DTB (ft)	DTW (ft)	MP Elev (ft)	GW Elev (ft)	LIMS ID
G01D	9/25/2023	13:07	1307	18.1	64.58	6.53	532.6	532.6	0.65	9.91	29.9			44.16			23091473-001A
G02D	9/25/2023	14:06	1406	16.1	60.98	6.4	411.5	411.5	1.51	11.7	68.5			44.46			23091473-002A
G03	9/26/2023	12:35	1235	17.8	64.04	6.43	445.4	445.4	3.89	34.57	40.2			39.49			23091473-003A
G05	9/27/2023	10:14	1014	17.4	63.32	6.42	565.1	565.1	0.94	19.94	-16.8			44.47			23091473-004A
G06	9/27/2023	11:16	1116	16.2	61.16	6.56	716.2	716.2	0.88	42.64	13.9			41.49			23091473-005A
G07	9/27/2023	11:57	1157	16	60.8	6.43	847.3	847.3	0.72	13.16	31.2			41.58			23091473-006A
G08	9/26/2023	14:32	1432	17.3	63.14	7.01	912.1	912.1	0.65	39.85	-91.5			32.69			23091473-007A
G09	9/26/2023	14:10	1410	17.7	63.86	6.24	789.4	789.4	0.81	16.72	33.4			41.48			23091473-008A
G10	9/26/2023	13:31	1331	17.5	63.5	6.65	1247.9	1247.9	0.47	16.33	64.8			41.8			23091473-009A
G101-LF	9/27/2023	11:03	1103	15.6	60.08	6.45	341	341	5.81	483.78	87.6			43.38			23091473-010A
G102	9/27/2023	10:14	1014	16.8	62.24	6.32	334.6	334.6	6.59	46.35	82.7			59			23091473-011A
G105	9/27/2023	9:03	0903	17.8	64.04	6.17	507.5	507.5	7.06	7.99	53.6			56.18			23091473-012A
G107	9/28/2023	15:23	1523	18.4	65.12	6.4	907.8	907.8	4.43	185.29	143.9			55.51			23091473-013A
G109	9/26/2023	15:28	1528	18.3	64.94	6.4	313.7	313.7	5.94	8.67	76.8			52.55			23091473-014A
G11	9/26/2023	11:47	1147	17.8	64.04	5.97	748.2	748.2	0.76	8.86	98.5			48.69			23091473-015A
G111-LF	9/26/2023	14:57	1457	18.1	64.58	6.56	394	394	4.39	18.14	58			50.61			23091473-016A
G12D	9/28/2023	9:49	0949	15.5	59.9	6.55	720.5	720.5	0.68	8.46	111.6			48.11			23091473-017A
G12S	9/28/2023	9:19	0919	15.3	59.54	6.61	715.7	715.7	0.99	7.41	108.4			48.17			23091473-018A
G13D	9/27/2023	13:37	1337	17.2	62.96	6.65	637.9	637.9	1.07	9.86	10.4			42.88			23091473-019A
G13S	9/27/2023	13:14	1314	15.6	60.08	6.71	636.5	636.5	0.77	8.07	6.7			42.9			23091473-020A
G151	9/28/2023	15:45	1545	18.2	64.76	5.83	423.3	423.3	7.4	129.84	173			39.33			23091473-021A
G153	9/27/2023	9:04	0904	16.7	62.06	6.77	502	502	7.18	13.55	36.6			37.81			23091473-022A
G16S	9/27/2023	13:42	1342	14.9	58.82	6.74	1034.8	1034.8	0.63	4.32	113.4			45.58			23091473-023A
G18S	9/27/2023	11:49	1149	16.8	62.24	6.58	525	525	2.83	4.63	80.1			38.88			23091473-024A
G19D	9/28/2023	9:22	0922	15.5	59.9	6.38	535.4	535.4	2.27	5.25	125.3			46.65			23091473-025A
G19S	9/28/2023	9:44	0944	15.4	59.72	6.37	683.1	683.1	3.27	1.22	127			46.78			23091473-026A
G20D	9/27/2023	14:23	1423	15.4	59.72	6.88	650.4	650.4	0.65	2.29	88.2			45.08			23091473-027A
G20S	9/27/2023	14:42	1442	15.5	59.9	6.64	645.5	645.5	4.11	1.93	98.9			44.49			23091473-028A
G21D	9/27/2023	14:49	1449	15.4	59.72	6.84	741.9	741.9	0.93	14.03	-52.3			46.27			23091473-029A
G21S	9/27/2023	14:26	1426	15	59	6.61	866	866	1.72	9.42	34.9			46.81			23091473-030A
G22D	9/28/2023	10:28	1028	16.6	61.88	6.53	489.7	489.7	0.76	15.7	21.7			46.99			23091473-031A
G22S	9/28/2023	10:22	1022	15.7	60.26	6.49	547.8	547.8	2.82	3.34	111.6			46.84			23091473-032A
G23S	9/27/2023	12:57	1257	15.7	60.26	6.6	452	452	4.04	9.3	92.4			46.06			23091473-033A
G24S	9/28/2023	8:40	0840	16.2	61.16	6.29	491	491	3.93	7.09	143.5			48.6			23091473-034A
G51D	9/25/2023	15:36	1536	18.4	65.12	5.45	426.1	426.1	1.75	17.36	139.2			45.38			23091473-035A
G52D	9/26/2023	10:30	1030	15.9	60.62	6.34	462.3	462.3	0.56	3.37	54.9			28.81			23091473-036A
G53D	9/27/2023	9:31	0931	17	62.6	6.46	489.1	489.1	0.6	10.39	-23.3			39.36			23091473-037A
G54D	9/26/2023	12:35	1235	17.2	62.96	6.64	845.7	845.7	3.04	7.85	38.5			43.85			23091473-038A
																	23091473-039A
well2	9/26/2023	9:08	0908	19.3	66.74	6.14	859.5	859.5	3.47	9.78	131.1			47.09			23091473-040A
well3	9/26/2023	9:58	0958	15.7	60.26	6.53	1066	1066	7.28	21.95	121.6			33.75			23091473-041A
XPW01	9/26/2023	9:26	0926	18.1	64.58	8.18	937.1	937.1	0.64	7.64	-151.8			16.84			23091473-042A
XPW02	9/26/2023	10:11	1011	17.7	63.86	7.63	4751.8	4751.8	0.51	9.86	-165.8			6.56			23091473-043A
XPW03	9/26/2023	10:51	1051	18.5	65.3	10.82	663.1	663.1	0.68	7.96	-126			14.02			23091473-044A
																	23091473-045A
FB	09/28/2023	11:16	1116														23091473-046A
G52DUP	09/26/2023	10:30	1030											28.81			23091473-047A
G12SDUP	09/28/2023	9:19	0919											48.17			23091473-048A

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-001A
Technician	JR, BG, JC, TC

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	9/25/2023	12:55	1255	44.16		18.2	64.76	6.69	539.9	539.9	1.04	10.97	29.2	
G01D	9/25/2023	12:58	1258	44.16		18.2	64.76	6.6	536.9	536.9	0.66	10.72	29.2	
G01D	9/25/2023	13:01	1301	44.16		18.1	64.58	6.56	534.6	534.6	0.62	11.64	29.4	
G01D	9/25/2023	13:04	1304	44.16		18.1	64.58	6.54	533.7	533.7	0.65	9.67	29.5	
G01D	9/25/2023	13:07	1307	44.16		18.1	64.58	6.53	532.6	532.6	0.65	9.91	29.9	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-002A
Technician	JR, BG, JC, TC

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	9/25/2023	14:00	1400	44.46		15.9	60.62	6.46	411.3	411.3	0.72	12.8	68.4	
G02D	9/25/2023	14:03	1403	44.46		16	60.8	6.42	411.1	411.1	1.08	12.84	68	
G02D	9/25/2023	14:06	1406	44.46		16.1	60.98	6.4	411.5	411.5	1.51	11.7	68.5	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-003A
Technician	JR, BG, JC, TC

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	9/26/2023	11:41	1141	39.49		17.4	63.32	6.88	648.1	648.1	2.2	13.5	8.7	
G03	9/26/2023	11:44	1144	39.49		17.4	63.32	6.77	652.8	652.8	2.18	17.55	11.6	
G03	9/26/2023	11:47	1147	39.49		17.4	63.32	6.7	642.2	642.2	2.23	33.58	14.1	
G03	9/26/2023	11:50	1150	39.49		17.4	63.32	6.65	617.2	617.2	2.41	72.24	16.3	
G03	9/26/2023	11:53	1153	39.49		17.5	63.5	6.62	574.5	574.5	2.78	104.37	18.5	
G03	9/26/2023	11:56	1156	39.49		17.5	63.5	6.61	535.1	535.1	3.07	124.58	20.8	
G03	9/26/2023	11:59	1159	39.49		17.5	63.5	6.58	517.3	517.3	3.21	123.88	23.2	
G03	9/26/2023	12:02	1202	39.49		17.5	63.5	6.56	504.1	504.1	3.33	112.58	25.7	
G03	9/26/2023	12:05	1205	39.49		17.6	63.68	6.54	493.2	493.2	3.44	102.58	27.6	
G03	9/26/2023	12:08	1208	39.49		17.6	63.68	6.53	485.1	485.1	3.5	86.79	29.5	
G03	9/26/2023	12:11	1211	39.49		17.6	63.68	6.51	476.7	476.7	3.55	77.24	31	
G03	9/26/2023	12:14	1214	39.49		17.6	63.68	6.5	471.3	471.3	3.64	66.19	32.6	
G03	9/26/2023	12:17	1217	39.49		17.7	63.86	6.49	466.6	466.6	3.67	59.23	34	
G03	9/26/2023	12:20	1220	39.49		17.7	63.86	6.48	462.4	462.4	3.7	53.68	35.3	
G03	9/26/2023	12:23	1223	39.49		17.7	63.86	6.46	458.9	458.9	3.72	48.42	36.5	
G03	9/26/2023	12:26	1226	39.49		17.7	63.86	6.46	453.3	453.3	3.75	43.64	37.5	
G03	9/26/2023	12:29	1229	39.49		17.7	63.86	6.45	450.9	450.9	3.77	40.73	38.5	
G03	9/26/2023	12:32	1232	39.49		17.6	63.68	6.44	449.4	449.4	3.8	37.93	39.4	
G03	9/26/2023	12:35	1235	39.49		17.8	64.04	6.43	445.4	445.4	3.89	34.57	40.2	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-004A
Technician	JR, BG, JC, TC

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	9/27/2023	10:05	1005	44.47		17	62.6	6.47	577.9	577.9	0.95	24.92	-8.2	
G05	9/27/2023	10:08	1008	44.47		17	62.6	6.45	575.5	575.5	0.84	18.49	-11.4	
G05	9/27/2023	10:11	1011	44.47		17.4	63.32	6.43	571.1	571.1	0.87	17.7	-14.2	
G05	9/27/2023	10:14	1014	44.47		17.4	63.32	6.42	565.1	565.1	0.94	19.94	-16.8	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-005A
Technician	JR, BG, JC, TC

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	9/27/2023	11:01	1101	41.49		16.3	61.34	6.6	725.1	725.1	1.2	66.11	20.6	
G06	9/27/2023	11:04	1104	41.49		16.3	61.34	6.59	720.1	720.1	1.07	61.5	18.8	
G06	9/27/2023	11:07	1107	41.49		16.3	61.34	6.57	717.5	717.5	1	52.48	17.3	
G06	9/27/2023	11:10	1110	41.49		16.3	61.34	6.57	716.5	716.5	0.95	49.37	16	
G06	9/27/2023	11:13	1113	41.49		16.3	61.34	6.56	716.2	716.2	0.91	50.61	14.9	
G06	9/27/2023	11:16	1116	41.49		16.2	61.16	6.56	716.2	716.2	0.88	42.64	13.9	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-006A
Technician	JR, BG, JC, TC

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	9/27/2023	11:51	1151	41.58		16	60.8	6.53	845.5	845.5	0.81	14.62	35.9	
G07	9/27/2023	11:54	1154	41.58		16	60.8	6.46	837.5	837.5	0.77	13.16	33.4	
G07	9/27/2023	11:57	1157	41.58		16	60.8	6.43	847.3	847.3	0.72	13.16	31.2	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-007A
Technician	JR, BG, JC, TC

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	9/26/2023	14:14	1414	32.69		17.4	63.32	7.01	912.7	912.7	0.68	55.04	-87.9	
G08	9/26/2023	14:17	1417	32.69		17.3	63.14	7.01	912.5	912.5	0.67	49.32	-88.7	
G08	9/26/2023	14:20	1420	32.69		17.3	63.14	7.01	913.5	913.5	0.67	46.99	-89.4	
G08	9/26/2023	14:23	1423	32.69		17.3	63.14	7.01	912.1	912.1	0.67	44.87	-89.9	
G08	9/26/2023	14:26	1426	32.69		17.3	63.14	7.01	912.2	912.2	0.65	40.79	-90.6	
G08	9/26/2023	14:29	1429	32.69		17.3	63.14	7.01	912.4	912.4	0.66	39.28	-91.1	
G08	9/26/2023	14:32	1432	32.69		17.3	63.14	7.01	912.1	912.1	0.65	39.85	-91.5	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-008A
Technician	JR, BG, JC, TC

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	9/26/2023	14:01	1401	41.48		17.8	64.04	6.27	784.8	784.8	0.9	13.74	30.6	
G09	9/26/2023	14:04	1404	41.48		17.8	64.04	6.25	785.8	785.8	0.9	14.93	31.9	
G09	9/26/2023	14:07	1407	41.48		17.8	64.04	6.24	786.6	786.6	0.86	16.53	33.1	
G09	9/26/2023	14:10	1410	41.48		17.7	63.86	6.24	789.4	789.4	0.81	16.72	33.4	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-009A
Technician	JR, BG, JC, TC

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	9/26/2023	13:19	1319	41.8		17.6	63.68	6.66	1277.2	1277.2	0.6	20.74	73.9	
G10	9/26/2023	13:22	1322	41.8		17.6	63.68	6.66	1266.3	1266.3	0.54	20.52	71.1	
G10	9/26/2023	13:25	1325	41.8		17.6	63.68	6.66	1258.6	1258.6	0.51	18.37	68.4	
G10	9/26/2023	13:28	1328	41.8		17.6	63.68	6.65	1254	1254	0.48	16.67	66.5	
G10	9/26/2023	13:31	1331	41.8		17.5	63.5	6.65	1247.9	1247.9	0.47	16.33	64.8	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-010A
Technician	JR, BG, JC, TC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G101-LF	9/27/2023	10:57	1057	43.38		15.1	59.18	6.55	338.9	338.9	6.88	445.35	85	
G101-LF	9/27/2023	11:00	1100	43.38		15.6	60.08	6.47	341.1	341.1	5.94	498.76	86.4	
G101-LF	9/27/2023	11:03	1103	43.38		15.6	60.08	6.45	341	341	5.81	483.78	87.6	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-011A
Technician	JR, BG, JC, TC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G102	9/27/2023	9:47	0947	59		15.7	60.26	6.34	342.5	342.5	6.41	25.99	72.8	
G102	9/27/2023	9:50	0950	59		15.7	60.26	6.33	337.6	337.6	6.53	32.28	73.8	
G102	9/27/2023	9:53	0953	59		15.8	60.44	6.32	334	334	6.65	35.11	75.1	
G102	9/27/2023	9:56	0956	59		15.7	60.26	6.31	329.6	329.6	6.69	36.86	76.3	
G102	9/27/2023	9:59	0959	59		15.7	60.26	6.3	328	328	6.63	52.59	78	
G102	9/27/2023	10:02	1002	59		15.8	60.44	6.3	329.5	329.5	6.6	59.21	79	
G102	9/27/2023	10:05	1005	59		15.9	60.62	6.3	330.1	330.1	6.57	58.68	80.2	
G102	9/27/2023	10:08	1008	59		16	60.8	6.3	331.7	331.7	6.59	47.69	81.3	
G102	9/27/2023	10:11	1011	59		16.4	61.52	6.31	333.6	333.6	6.6	46.31	81.9	
G102	9/27/2023	10:14	1014	59		16.8	62.24	6.32	334.6	334.6	6.59	46.35	82.7	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-012A
Technician	JR, BG, JC, TC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G105	9/27/2023	8:57	0857	56.18		17.9	64.22	6.18	541	541	6.77	12.34	46.3	
G105	9/27/2023	9:00	0900	56.18		17.8	64.04	6.18	517.4	517.4	6.98	10	49.8	
G105	9/27/2023	9:03	0903	56.18		17.8	64.04	6.17	507.5	507.5	7.06	7.99	53.6	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-013A
Technician	JR, BG, JC, TC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G107	9/28/2023	15:08	1508	55.51		20.4	68.72	6.01	961.8	961.8	2.54	35.07	115.9	
G107	9/28/2023	15:11	1511	55.51		18.2	64.76	6.26	903.1	903.1	3.57	228.96	124	
G107	9/28/2023	15:14	1514	55.51		18.9	66.02	6.28	902.1	902.1	3.42	204.28	130.4	
G107	9/28/2023	15:17	1517	55.51		19.3	66.74	6.31	903.1	903.1	3.38	196.2	135.2	
G107	9/28/2023	15:20	1520	55.51		19.7	67.46	6.34	905.5	905.5	3.35	192.45	138.7	
G107	9/28/2023	15:23	1523	55.51		18.4	65.12	6.4	907.8	907.8	4.43	185.29	143.9	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-014A
Technician	JR, BG, JC, TC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G109	9/26/2023	15:09	1509	52.55		20.6	69.08	6.84	330.1	330.1	8.39	8.54	53.7	
G109	9/26/2023	15:12	1512	52.55		21.5	70.7	6.78	332.2	332.2	8.28	6.55	57.1	
G109	9/26/2023	15:15	1515	52.55		22.3	72.14	6.77	333.2	333.2	8.17	5.34	59.9	
G109	9/26/2023	15:22	1522	52.55		18.2	64.76	6.44	317.5	317.5	6.37	11	72.8	
G109	9/26/2023	15:25	1525	52.55		18.1	64.58	6.41	314.7	314.7	6.14	8.26	75.2	
G109	9/26/2023	15:28	1528	52.55		18.3	64.94	6.4	313.7	313.7	5.94	8.67	76.8	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-015A
Technician	JR, BG, JC, TC

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	9/26/2023	11:20	1120	48.69		17.7	63.86	5.99	855.3	855.3	1.42	6.34	91.4	
G11	9/26/2023	11:23	1123	48.69		17.7	63.86	5.97	835.5	835.5	1.17	11.48	92.4	
G11	9/26/2023	11:26	1126	48.69		17.6	63.68	5.97	816.8	816.8	1.04	17.99	93.3	
G11	9/26/2023	11:29	1129	48.69		17.8	64.04	5.97	805.5	805.5	0.96	24.84	94.2	
G11	9/26/2023	11:32	1132	48.69		17.6	63.68	5.97	792.6	792.6	0.9	31.49	95	
G11	9/26/2023	11:35	1135	48.69		17.7	63.86	5.96	785.7	785.7	0.86	41.49	95.7	
G11	9/26/2023	11:38	1138	48.69		17.6	63.68	5.97	776	776	0.84	45.5	96.5	
G11	9/26/2023	11:41	1141	48.69		17.7	63.86	5.97	768	768	0.81	56.29	97.2	
G11	9/26/2023	11:44	1144	48.69		17.8	64.04	5.95	757.9	757.9	0.78	5.05	99	
G11	9/26/2023	11:47	1147	48.69		17.8	64.04	5.97	748.2	748.2	0.76	8.86	98.5	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-016A
Technician	JR, BG, JC, TC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
G111-LF	9/26/2023	14:45	1445	50.61		18.5	65.3	6.68	397.1	397.1	4.57	16.64	47.6	
G111-LF	9/26/2023	14:48	1448	50.61		18.1	64.58	6.62	395.4	395.4	4.36	17.03	51.3	
G111-LF	9/26/2023	14:51	1451	50.61		18	64.4	6.57	395	395	4.31	22.9	54.8	
G111-LF	9/26/2023	14:54	1454	50.61		18.1	64.58	6.57	394.6	394.6	4.39	18.58	56.3	
G111-LF	9/26/2023	14:57	1457	50.61		18.1	64.58	6.56	394	394	4.39	18.14	58	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-017A
Technician	JR, BG, JC, TC

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	9/28/2023	9:37	0937	48.11		15.5	59.9	6.65	721.3	721.3	1.12	9.41	128.7	
G12D	9/28/2023	9:40	0940	48.11		15.5	59.9	6.61	720.9	720.9	0.83	9.12	123.9	
G12D	9/28/2023	9:43	0943	48.11		15.5	59.9	6.58	720.6	720.6	0.74	9.15	119.4	
G12D	9/28/2023	9:46	0946	48.11		15.5	59.9	6.57	720.4	720.4	0.7	9.1	115.3	
G12D	9/28/2023	9:49	0949	48.11		15.5	59.9	6.55	720.5	720.5	0.68	8.46	111.6	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-018A
Technician	JR, BG, JC, TC

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	9/28/2023	9:01	0901	48.17		15.4	59.72	7.38	719.6	719.6	1.14	7.67	105.8	
G12S	9/28/2023	9:04	0904	48.17		15.3	59.54	7.05	717.9	717.9	1	7.59	109.9	
G12S	9/28/2023	9:07	0907	48.17		15.3	59.54	6.88	716.4	716.4	1.02	7.53	111.1	
G12S	9/28/2023	9:10	0910	48.17		15.3	59.54	6.77	716	716	1	7.49	111.5	
G12S	9/28/2023	9:13	0913	48.17		15.3	59.54	6.7	715.8	715.8	0.99	7.43	110.9	
G12S	9/28/2023	9:16	0916	48.17		15.3	59.54	6.65	715.7	715.7	0.99	7.44	109.8	
G12S	9/28/2023	9:19	0919	48.17		15.3	59.54	6.61	715.7	715.7	0.99	7.41	108.4	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-019A
Technician	JR, BG, JC, TC

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	9/27/2023	13:31	1331	42.88		17.3	63.14	6.71	638.5	638.5	1.67	10.08	6.3	
G13D	9/27/2023	13:34	1334	42.88		17.2	62.96	6.68	638.1	638.1	1.37	9.94	8.7	
G13D	9/27/2023	13:37	1337	42.88		17.2	62.96	6.65	637.9	637.9	1.07	9.86	10.4	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-020A
Technician	JR, BG, JC, TC

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	9/27/2023	13:08	1308	42.9		15.6	60.08	6.85	636.3	636.3	0.89	9.18	2.1	
G13S	9/27/2023	13:11	1311	42.9		15.5	59.9	6.76	636.8	636.8	0.82	8.16	5.2	
G13S	9/27/2023	13:14	1314	42.9		15.6	60.08	6.71	636.5	636.5	0.77	8.07	6.7	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-021A
Technician	JR, BG, JC, TC

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	9/28/2023	15:39	1539	39.33		18.4	65.12	6.69	449.7	449.7	7.06	66.16	148.8	
G151	9/28/2023	15:42	1542	39.33		18.8	65.84	6.04	459.3	459.3	6.98	43.31	165.9	
G151	9/28/2023	15:45	1545	39.33		18.2	64.76	5.83	423.3	423.3	7.4	129.84	173	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-022A
Technician	JR, BG, JC, TC

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	9/27/2023	8:58	0858	37.81		16.6	61.88	6.82	498.2	498.2	7.81	12.09	35.2	
G153	9/27/2023	9:01	0901	37.81		16.6	61.88	6.8	499.8	499.8	7.62	12.36	35.6	
G153	9/27/2023	9:04	0904	37.81		16.7	62.06	6.77	502	502	7.18	13.55	36.6	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-023A
Technician	JR, BG, JC, TC

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	9/27/2023	13:36	1336	45.58		15	59	6.76	1032	1032	1.09	5.72	109.8	
G16S	9/27/2023	13:39	1339	45.58		15	59	6.75	1033.2	1033.2	0.77	4.48	111.9	
G16S	9/27/2023	13:42	1342	45.58		14.9	58.82	6.74	1034.8	1034.8	0.63	4.32	113.4	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-024A
Technician	JR, BG, JC, TC

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	9/27/2023	11:43	1143	38.88		16.8	62.24	6.57	525.3	525.3	3	9.72	78.5	
G18S	9/27/2023	11:46	1146	38.88		16.8	62.24	6.57	524.9	524.9	2.93	5.81	79.8	
G18S	9/27/2023	11:49	1149	38.88		16.8	62.24	6.58	525	525	2.83	4.63	80.1	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-025A
Technician	JR, BG, JC, TC

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	9/28/2023	9:16	0916	46.65		15.5	59.9	6.38	536.5	536.5	2.31	9.4	124.8	
G19D	9/28/2023	9:19	0919	46.65		15.5	59.9	6.38	536	536	2.28	6.7	125.1	
G19D	9/28/2023	9:22	0922	46.65		15.5	59.9	6.38	535.4	535.4	2.27	5.25	125.3	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-026A
Technician	JR, BG, JC, TC

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	9/28/2023	9:38	0938	46.78		15.6	60.08	6.45	681.7	681.7	3.57	3.13	126.8	
G19S	9/28/2023	9:41	0941	46.78		15.5	59.9	6.39	683.5	683.5	3.34	2.02	126.8	
G19S	9/28/2023	9:44	0944	46.78		15.4	59.72	6.37	683.1	683.1	3.27	1.22	127	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-027A
Technician	JR, BG, JC, TC

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	9/27/2023	14:17	1417	45.08		15.4	59.72	6.95	651.1	651.1	1.37	2.58	87.1	
G20D	9/27/2023	14:20	1420	45.08		15.4	59.72	6.9	650.5	650.5	0.9	2.79	87.8	
G20D	9/27/2023	14:23	1423	45.08		15.4	59.72	6.88	650.4	650.4	0.65	2.29	88.2	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-028A
Technician	JR, BG, JC, TC

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	9/27/2023	14:36	1436	44.49		15.6	60.08	6.72	645.3	645.3	4.74	2.41	97.6	
G20S	9/27/2023	14:39	1439	44.49		15.5	59.9	6.66	645.4	645.4	4.27	2.12	98.3	
G20S	9/27/2023	14:42	1442	44.49		15.5	59.9	6.64	645.5	645.5	4.11	1.93	98.9	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-029A
Technician	JR, BG, JC, TC

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	9/27/2023	14:43	1443	46.27		15.4	59.72	6.89	742.5	742.5	1.34	16.36	-24	
G21D	9/27/2023	14:49	1449	46.27		15.4	59.72	6.84	741.9	741.9	0.93	14.03	-52.3	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-030A
Technician	JR, BG, JC, TC

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	9/27/2023	14:17	1417	46.81		15.1	59.18	6.75	856.9	856.9	2.03	10.73	40.9	
G21S	9/27/2023	14:20	1420	46.81		15	59	6.68	858.2	858.2	1.92	9.54	38.7	
G21S	9/27/2023	14:23	1423	46.81		15	59	6.64	861.7	861.7	1.81	9.2	36.7	
G21S	9/27/2023	14:26	1426	46.81		15	59	6.61	866	866	1.72	9.42	34.9	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-031A
Technician	JR, BG, JC, TC

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	9/28/2023	10:19	1019	46.99		16.7	62.06	6.72	483.1	483.1	0.85	16.36	71.7	
G22D	9/28/2023	10:22	1022	46.99		16.6	61.88	6.6	488.8	488.8	0.79	17.71	46.8	
G22D	9/28/2023	10:25	1025	46.99		16.6	61.88	6.55	489.2	489.2	0.77	16.89	30.4	
G22D	9/28/2023	10:28	1028	46.99		16.6	61.88	6.53	489.7	489.7	0.76	15.7	21.7	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-032A
Technician	JR, BG, JC, TC

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	9/28/2023	10:16	1016	46.84		15.8	60.44	6.61	548.2	548.2	3.39	4.45	108.1	
G22S	9/28/2023	10:19	1019	46.84		15.7	60.26	6.52	547.5	547.5	2.92	4.09	110.2	
G22S	9/28/2023	10:22	1022	46.84		15.7	60.26	6.49	547.8	547.8	2.82	3.34	111.6	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-033A
Technician	JR, BG, JC, TC

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	9/27/2023	12:33	1233	46.06		16	60.8	6.64	452.8	452.8	4.09	19.6	87.6	
G23S	9/27/2023	12:36	1236	46.06		15.9	60.62	6.62	452.7	452.7	4.04	19.26	88.8	
G23S	9/27/2023	12:39	1239	46.06		15.9	60.62	6.62	452.4	452.4	4.02	18.09	89.4	
G23S	9/27/2023	12:42	1242	46.06		15.9	60.62	6.61	452.3	452.3	4.01	16.41	90	
G23S	9/27/2023	12:45	1245	46.06		15.8	60.44	6.61	452.4	452.4	4.01	14.29	90.8	
G23S	9/27/2023	12:48	1248	46.06		15.8	60.44	6.61	452.2	452.2	4.01	12.89	91.1	
G23S	9/27/2023	12:51	1251	46.06		15.8	60.44	6.6	452.1	452.1	4.02	11.19	91.5	
G23S	9/27/2023	12:54	1254	46.06		15.7	60.26	6.6	452.1	452.1	4.03	10.38	92	
G23S	9/27/2023	12:57	1257	46.06		15.7	60.26	6.6	452	452	4.04	9.3	92.4	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-034A
Technician	JR, BG, JC, TC

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	9/28/2023	8:34	0834	48.6		16.1	60.98	6.3	491.6	491.6	4	9.62	145.7	
G24S	9/28/2023	8:37	0837	48.6		16.2	61.16	6.3	491.3	491.3	3.96	7.65	144.4	
G24S	9/28/2023	8:40	0840	48.6		16.2	61.16	6.29	491	491	3.93	7.09	143.5	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-035A
Technician	JR, BG, JC, TC

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	9/25/2023	15:27	1527	45.38		18.9	66.02	5.51	428.1	428.1	1.99	26.68	132	
G51D	9/25/2023	15:30	1530	45.38		18.6	65.48	5.48	426.6	426.6	1.8	21.22	135	
G51D	9/25/2023	15:33	1533	45.38		18.4	65.12	5.47	426.6	426.6	1.82	19.43	137.3	
G51D	9/25/2023	15:36	1536	45.38		18.4	65.12	5.45	426.1	426.1	1.75	17.36	139.2	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-036A
Technician	JR, BG, JC, TC

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	9/26/2023	10:24	1024	28.81		15.8	60.44	6.43	463.4	463.4	0.95	3.66	73.8	
G52D	9/26/2023	10:27	1027	28.81		15.9	60.62	6.36	462.2	462.2	0.66	3.15	62.5	
G52D	9/26/2023	10:30	1030	28.81		15.9	60.62	6.34	462.3	462.3	0.56	3.37	54.9	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-037A
Technician	JR, BG, JC, TC

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	9/27/2023	9:25	0925	39.36		17.1	62.78	6.56	488.4	488.4	0.78	14.07	-16.7	
G53D	9/27/2023	9:28	0928	39.36		17	62.6	6.49	489.3	489.3	0.65	13.46	-20.6	
G53D	9/27/2023	9:31	0931	39.36		17	62.6	6.46	489.1	489.1	0.6	10.39	-23.3	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-038A
Technician	JR, BG, JC, TC

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	9/26/2023	12:29	1229	43.85		17.2	62.96	6.63	733.3	733.3	3.01	13.53	40.2	
G54D	9/26/2023	12:32	1232	43.85		17.2	62.96	6.63	842.3	842.3	3.05	9.48	39.8	
G54D	9/26/2023	12:35	1235	43.85		17.2	62.96	6.64	845.7	845.7	3.04	7.85	38.5	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-039A
Technician	JR, BG, JC, TC

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 3Q
LIMS Workorder	23091473-040A
Technician	JR, BG, JC, TC

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)
well2	9/26/2023	8:44	0844	47.09		19.8	67.64	6.16	844.5	844.5	4.25	22.58	136.1	
well2	9/26/2023	8:47	0847	47.09		19.4	66.92	6.14	860.5	860.5	3.8	23.31	135.8	
well2	9/26/2023	8:50	0850	47.09		19.3	66.74	6.13	849.1	849.1	3.73	19.52	134.9	
well2	9/26/2023	8:53	0853	47.09		19.3	66.74	6.12	851.5	851.5	3.66	17.96	134.4	
well2	9/26/2023	8:56	0856	47.09		19.3	66.74	6.12	854.8	854.8	3.59	14.47	133.7	
well2	9/26/2023	8:59	0859	47.09		19.3	66.74	6.12	856.8	856.8	3.55	12.44	133.1	
well2	9/26/2023	9:02	0902	47.09		19.3	66.74	6.13	857.3	857.3	3.52	11.5	132.4	
well2	9/26/2023	9:05	0905	47.09		19.3	66.74	6.13	858.8	858.8	3.49	10.5	131.8	
well2	9/26/2023	9:08	0908	47.09		19.3	66.74	6.14	859.5	859.5	3.47	9.78	131.1	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-041A
Technician	JR, BG, JC, TC

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)
well3	9/26/2023	9:52	0952	33.75		15.7	60.26	6.52	1066.6	1066.6	7.28	21.51	122.3	
well3	9/26/2023	9:55	0955	33.75		15.7	60.26	6.52	1066.1	1066.1	7.28	22.43	121.9	
well3	9/26/2023	9:58	0958	33.75		15.7	60.26	6.53	1066	1066	7.28	21.95	121.6	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-042A
Technician	JR, BG, JC, TC

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	9/26/2023	9:17	0917	16.84		17.5	63.5	7.79	921.6	921.6	0.7	9.92	-125.6	
XPW01	9/26/2023	9:20	0920	16.84		18	64.4	7.95	926.6	926.6	0.7	9.25	-135.5	
XPW01	9/26/2023	9:23	0923	16.84		18.1	64.58	8.1	935	935	0.66	8.37	-145.4	
XPW01	9/26/2023	9:26	0926	16.84		18.1	64.58	8.18	937.1	937.1	0.64	7.64	-151.8	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-043A
Technician	JR, BG, JC, TC

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	9/26/2023	10:02	1002	6.56		17.8	64.04	7.52	4738.6	4738.6	0.6	16.61	-101.3	
XPW02	9/26/2023	10:05	1005	6.56		17.7	63.86	7.57	4752.8	4752.8	0.54	12.36	-134.3	
XPW02	9/26/2023	10:08	1008	6.56		17.7	63.86	7.6	4753.2	4753.2	0.52	11.09	-153.4	
XPW02	9/26/2023	10:11	1011	6.56		17.7	63.86	7.63	4751.8	4751.8	0.51	9.86	-165.8	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-044A
Technician	JR, BG, JC, TC

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	9/26/2023	10:42	1042	14.02		17.9	64.22	10.77	658.8	658.8	0.73	9.56	-117.7	
XPW03	9/26/2023	10:45	1045	14.02		18.2	64.76	10.79	660.6	660.6	0.7	9.25	-121.1	
XPW03	9/26/2023	10:48	1048	14.02		18.4	65.12	10.81	661.5	661.5	0.69	8.38	-123.9	
XPW03	9/26/2023	10:51	1051	14.02		18.5	65.3	10.82	663.1	663.1	0.68	7.96	-126	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-045A
Technician	JR, BG, JC, TC

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 3Q
LIMS Workorder	23091473-046A
Technician	JR, BG, JC, TC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
FB														

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-047A
Technician	JR, BG, JC, TC

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)
G52DDUP	9/26/2023	10:24	1024	28.8		15.8	60.44	6.43	463.4	463.4	0.95	3.66	73.8	
G52DDUP	9/26/2023	10:27	1027	28.8		15.9	60.62	6.36	462.2	462.2	0.66	3.15	62.5	
G52DDUP	9/26/2023	10:30	1030	28.8		15.9	60.62	6.34	462.3	462.3	0.56	3.37	54.9	

Site Sampling Event	Joppa 3Q
LIMS Workorder	23091473-048A
Technician	JR, BG, JC, TC

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)
G12SDUP	9/28/2023	9:01	0901	48.2		15.4	59.72	7.38	719.6	719.6	1.14	7.67	105.8	
G12SDUP	9/28/2023	9:04	0904	48.2		15.3	59.54	7.05	717.9	717.9	1	7.59	109.9	
G12SDUP	9/28/2023	9:07	0907	48.2		15.3	59.54	6.88	716.4	716.4	1.02	7.53	111.1	
G12SDUP	9/28/2023	9:10	0910	48.2		15.3	59.54	6.77	716	716	1	7.49	111.5	
G12SDUP	9/28/2023	9:13	0913	48.2		15.3	59.54	6.7	715.8	715.8	0.99	7.43	110.9	
G12SDUP	9/28/2023	9:16	0916	48.2		15.3	59.54	6.65	715.7	715.7	0.99	7.44	109.8	
G12SDUP	9/28/2023	9:19	0919	48.2		15.3	59.54	6.61	715.7	715.7	0.99	7.41	108.4	

Field Analysis Log

ATTACHMENT B
845 QUARTERLY REPORT - QUARTER 3, 2023
JOPPA POWER PLANT, EAST ASH POND

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: JOP-845-401			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/unit
LCS	9/25/23	12:36	26.6	7.06				1413					
CCV		1610	28.4	7.04				1428					

**** Field Meter ID for Temp, pH & Conductivity : Pine 49331

**** Field Meter ID for (_____) : _____

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WC2B5T20G	Conductivity Std. 1412	J4616	_____ Std. _____	
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC23050HB	Conductivity Std. _____		_____ Std. _____	
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC23050HC	Conductivity Std. _____		_____ Std. _____	
Other: _____			pH LCS/LCSD 7	WC23060TOF	Conductivity LCS/LCSD _____		_____ LCS/LCSD _____	

pH Calibration		Reading
	4.00	4.01
Date: 9/25/23	7.00	7.00
Time: 12:20	10.00	9.98

Field Analyst Sig & Date: Jean Carroll 9/25/23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration			Reading	units
_____	µS	0-199.9	_____	µS
1412	µS	0-1999	1412	µS
_____	mS	0-19.99	_____	mS

Field Analyst Sig & Date: Jean Carroll 9/25/23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration	Reading
Std _____ Units _____	
Std _____ Units _____	
Std _____ Units _____	

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Comments:

ATTACHMENT B
845 QUARTERLY REPORT - QUARTER 3, 2023
JOPPA POWER PLANT, EAST ASH POND

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: JOP-845-401			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/unit
LCS	9/26/23	8:45	22.5	7.04				1411					
ccv	9/26/23	15:09	29.3	7.03				1426					

**** Field Meter ID for Temp, pH & Conductivity : Pine 49331

**** Field Meter ID for (_____): _____

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WE 230720G	Conductivity Std.	1412	74610	_____ Std. _____
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	230616F	Conductivity Std.	_____	_____	_____ Std. _____
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	230504C	Conductivity Std.	_____	_____	_____ Std. _____
Other: _____			pH LCS/LCSD 7	230504B	Conductivity LCS/LCSD	_____	_____	_____ LCS/LCSD _____

pH Calibration		Reading
	4.00	4.00
Date: 9/26/23	7.00	7.01
Time: 8:25	10.00	10.03

Field Analyst Sig & Date: Juan Cazares 9/26/23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration			Reading	units
_____	µS	0-199.9	_____	µS
1412	µS	0-1999	1412	µS
_____	mS	0-19.99	_____	mS

Field Analyst Sig & Date: Juan Cazares 9/26/23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration		Reading
Std _____	Units _____	_____
Std _____	Units _____	_____
Std _____	Units _____	_____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Comments:

ATTACHMENT B
845 QUARTERLY REPORT - QUARTER 3, 2023
JOPPA POWER PLANT, EAST ASH POND

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: JOP-845-401			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/unit
LCS	9/27/23	8:40	22.9	7.04				1412					
CCV		1453	24.1	7.02				1453					

**** Field Meter ID for Temp, pH & Conductivity : Pine 49331

**** Field Meter ID for (_____) : _____

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WE 2307209	Conductivity Std. 1412	74610	_____ Std. _____	
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	2306116F	Conductivity Std. _____		_____ Std. _____	
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	2305040	Conductivity Std. _____		_____ Std. _____	
Other: _____			pH LCS/LCSD 7	2305048	Conductivity LCS/LCSD _____		_____ LCS/LCSD _____	

pH Calibration		Reading
	4.00	4.01
Date: 9/27/23	7.00	7.00
Time: 8:28	10.00	10.03

Field Analyst Sig & Date: Tracy Carroll 9/27/23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration			Reading	units
_____	µS	0-199.9	_____	µS
1412	µS	0-1999	1412	µS
_____	mS	0-19.99	_____	mS

Field Analyst Sig & Date: Tracy Carroll 9/27/23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration		Reading
Std _____	Units _____	_____
Std _____	Units _____	_____
Std _____	Units _____	_____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Comments:

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results Reading 1	pH Results Reading 2	pH Results LCSD	Conductivity Range Factor	Conductivity Reading 1	Conductivity Reading 2	Other: DF	Other: Read1/units	Other: DF	Other: Read2/units
LCS	9-26-23	0826	20.1		7.01			1413					
CCV	9-26-23	1546	21.9		7.03			1436					

****** Field Meter ID for Temp, pH & Conductivity :** PINE

****** Field Meter ID for (_____) :** _____

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WC230720G	Conductivity Std. ____		Std.	
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC230616F	Conductivity Std. 1410	04955	Std.	
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC230504C	Conductivity Std. ____		Std.	
Other: _____			pH LCS/LCSD 7	WC230504B	Conductivity LCS/LCSD ____		LCS/LCSD	

pH Calibration

Date: 9-26-23
Time: 0810

	Reading
	4.00
	7.01
	9.99

Field Analyst Sig & Date: [signature] 9-26-23
Reviewed By & Date:
Reviewed By & Date:

Conductivity Calibration

			Reading	units
	µS	0-199.9	1413	µS
	µS	0-1999		µS
	mS	0-19.99		mS

Field Analyst Sig & Date: 9-26-23 [signature]
Reviewed By & Date:
Reviewed By & Date:

_____ Calibration	Reading
Std____ Units ____	
Std____ Units ____	
Std____ Units ____	

Field Analyst Sig & Date:
Reviewed By & Date:
Reviewed By & Date:

Page _____ of _____

Comments:

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: _____			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units
LCS	9-27-23	0821	20.2		7.00			1415					
CCV	9-27-23	1456	21.3		7.03			1429					

**** Field Meter ID for Temp, pH & Conductivity :__PINE_____ **** Field Meter ID for (_____) : _____

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WC230720G	Conductivity Std. _____		_____ Std._____	
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC230616F	Conductivity Std. 1410	04955	_____ Std._____	
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC230504C	Conductivity Std. _____		_____ Std._____	
Other: _____			pH LCS/LCSD __7__	WC230509B	Conductivity LCS/LCSD _____		_____ LCS/LCSD _____	

pH Calibration	Reading
	4.00
	7.00
	10.01

Date: 9-27-23
Time: 0806

Field Analyst Sig & Date: [signature] 9-27-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration			Reading	units
_____	µS	0-199.9		µS
_____	µS	0-1999	1415	µS
_____	mS	0-19.99		mS

Field Analyst Sig & Date: [signature] 9-27-23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration	Reading
Std_____ Units _____	
Std_____ Units _____	
Std_____ Units _____	

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Page _____ of _____

Comments:

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results Reading 1	pH Results Reading 2	pH Results LCSD	Conductivity Range Factor	Conductivity Reading 1	Conductivity Reading 2	Other: DF	Other: Read1/units	Other: DF	Other: Read2/units
LCS	9-28-23	8:38	24.3	7:02	7:01			1412					
CCV	9-28-23	11:40	25.6	7:02	7:02			1410					

**** Field Meter ID for Temp, pH & Conductivity : PINE

**** Field Meter ID for (04955) : _____

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	~~4.00~~ WC23072DG	Conductivity Std. 1410	04955	_____ Std.	
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	~~7.01~~ WC23061F	Conductivity Std. _____		_____ Std.	
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	~~10.00~~ WC23050E	Conductivity Std. _____		_____ Std.	
Other: _____			pH LCS/LCSD 7	7.00 WC23050B	Conductivity LCS/LCSD _____		_____ LCS/LCSD	

pH Calibration

	Reading
Date: 9-28-23	4.00
Time: 8:16	7.01
	10.00

Field Analyst Sig & Date: Brett Hart - 9-28-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration

			Reading	units
_____	µS	0-199.9	_____	µS
_____	µS	0-1999	_____	µS
_____	mS	0-19.99	_____	mS

Field Analyst Sig & Date: Brett Hart - 9.28.23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration

	Calibration	Reading
Std _____	Units _____	_____
Std _____	Units _____	_____
Std _____	Units _____	_____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Page _____ of _____

Comments:

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results Reading 1	pH Results Reading 2	pH Results CCV	Conductivity Range Factor	Conductivity Reading 1	Conductivity Reading 2	Other: DF	Other: Read1/units	Other: DF	Other: Read2/units
LCS	09/29/23	1022		7.04				1480					
	↓	1442		6.98				1455					
CCV													

****** Field Meter ID for Temp, pH & Conductivity :** _____

	SW846	Std Methods
Field Temp SOP 1156		2550 B
pH in the Field SOP 1152	9040B	4500-H B
Field Cond. SOP 1155	9050A	2510 B
Other: _____		

	Lot #
pH 4.0 Buffer	WC230720G
pH 7.0 Buffer	WC230106F
pH 10.0 Buffer	WC230504C
pH LCS/LCSD _____	WC230504B

	Lot #
Conductivity Std. _____	
Conductivity Std. 1410	04955
Conductivity Std. _____	
Conductivity LCS/LCSD _____	

****** Field Meter ID for (_____) :** _____

Lot #		Lot #
_____	_____ Std. _____	_____
_____	_____ Std. _____	_____
_____	_____ Std. _____	_____
_____	_____ LCS/LCSD _____	_____

pH Calibration		Reading
	4.00	4.00
Date:	7.00	7.04
Time:	10.00	9.98

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration			Reading	units
_____	µS	0-199.9	_____	µS
_____	µS	0-1999	_____	µS
_____	mS	0-19.99	_____	mS

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration	Reading
Std _____ Units _____	_____
Std _____ Units _____	_____
Std _____ Units _____	_____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Comments:

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

October 27, 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-23Q3 **WorkOrder:** 23091474

Dear Eric Bauer:

TEKLAB, INC received 19 samples on 9/28/2023 3:05:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,

Elizabeth A. Hurley

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

Report Contents

Client: Ramboll
Client Project: JOP-23Q3

Work Order: 23091474
Report Date: 27-Oct-23

This reporting package includes the following:

Definitions

Client: Ramboll **Work Order:** 23091474

Client Project: JOP-23Q3 **Report Date:** 27-Oct-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: 23091474

Client Project: JOP-23Q3

Report Date: 27-Oct-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: 23091474
Client Project: JOP-23Q3
Report Date: 27-Oct-23

Cooler Receipt Temp: 5.6 °C

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

Ra226/228 analysis was 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:** 23091474

Client Project: JOP-23Q3 **Report Date:** 27-Oct-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

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091474

Client Project: JOP-23Q3 **Report Date:** 27-Oct-23

Lab ID: 23091474-001 **Client Sample ID:** G01D

Matrix: GROUNDWATER **Collection Date:** 09/25/2023 13:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091474

Client Project: JOP-23Q3 **Report Date:** 27-Oct-23

Lab ID: 23091474-002 **Client Sample ID:** G02D

Matrix: GROUNDWATER **Collection Date:** 09/25/2023 14:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Laboratory Results

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

Client: Ramboll
Work Order: 23091474
Client Project: JOP-23Q3
Report Date: 27-Oct-23
Lab ID: 23091474-003
Client Sample ID: G03
Matrix: GROUNDWATER
Collection Date: 09/26/2023 12:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Laboratory Results

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

Client: Ramboll
Work Order: 23091474
Client Project: JOP-23Q3
Report Date: 27-Oct-23
Lab ID: 23091474-004
Client Sample ID: G05
Matrix: GROUNDWATER
Collection Date: 09/27/2023 10:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Laboratory Results

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

Client: Ramboll
Work Order: 23091474
Client Project: JOP-23Q3
Report Date: 27-Oct-23
Lab ID: 23091474-005
Client Sample ID: G06
Matrix: GROUNDWATER
Collection Date: 09/27/2023 11:16

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Laboratory Results

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

Client: Ramboll
Work Order: 23091474
Client Project: JOP-23Q3
Report Date: 27-Oct-23
Lab ID: 23091474-006
Client Sample ID: G07
Matrix: GROUNDWATER
Collection Date: 09/27/2023 11:57

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Laboratory Results

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

Client: Ramboll **Work Order:** 23091474

Client Project: JOP-23Q3 **Report Date:** 27-Oct-23

Lab ID: 23091474-007 **Client Sample ID:** G08

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 14:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:07	R338352

Laboratory Results

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

Client: Ramboll
Work Order: 23091474
Client Project: JOP-23Q3
Report Date: 27-Oct-23
Lab ID: 23091474-008
Client Sample ID: G09
Matrix: GROUNDWATER
Collection Date: 09/26/2023 14:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:07	R338352

Laboratory Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091474

Client Project: JOP-23Q3 **Report Date:** 27-Oct-23

Lab ID: 23091474-009 **Client Sample ID:** G10

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 13:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:07	R338352

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091474

Client Project: JOP-23Q3 **Report Date:** 27-Oct-23

Lab ID: 23091474-010 **Client Sample ID:** G11

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 11:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:07	R338352

Laboratory Results

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

Client: Ramboll
Work Order: 23091474
Client Project: JOP-23Q3
Report Date: 27-Oct-23
Lab ID: 23091474-011
Client Sample ID: G51D
Matrix: GROUNDWATER
Collection Date: 09/25/2023 15:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091474

Client Project: JOP-23Q3 **Report Date:** 27-Oct-23

Lab ID: 23091474-012 **Client Sample ID:** G52D

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 10:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Laboratory Results

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

Client: Ramboll
Work Order: 23091474
Client Project: JOP-23Q3
Report Date: 27-Oct-23
Lab ID: 23091474-013
Client Sample ID: G53D
Matrix: GROUNDWATER
Collection Date: 09/27/2023 9:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091474

Client Project: JOP-23Q3 **Report Date:** 27-Oct-23

Lab ID: 23091474-014 **Client Sample ID:** G54D

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 12:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Laboratory Results

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

Client: Ramboll
Work Order: 23091474
Client Project: JOP-23Q3
Report Date: 27-Oct-23
Lab ID: 23091474-015
Client Sample ID: XPW01
Matrix: GROUNDWATER
Collection Date: 09/26/2023 9:26

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091474

Client Project: JOP-23Q3 **Report Date:** 27-Oct-23

Lab ID: 23091474-016 **Client Sample ID:** XPW02

Matrix: GROUNDWATER **Collection Date:** 09/26/2023 10:11

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Laboratory Results

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

Client: Ramboll
Work Order: 23091474
Client Project: JOP-23Q3
Report Date: 27-Oct-23
Lab ID: 23091474-017
Client Sample ID: XPW03
Matrix: GROUNDWATER
Collection Date: 09/26/2023 10:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091474

Client Project: JOP-23Q3 **Report Date:** 27-Oct-23

Lab ID: 23091474-018 **Client Sample ID:** Field Blank

Matrix: GROUNDWATER **Collection Date:** 09/28/2023 11:16

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:06	R338352

Laboratory Results

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

Client: Ramboll
Work Order: 23091474
Client Project: JOP-23Q3
Report Date: 27-Oct-23
Lab ID: 23091474-019
Client Sample ID: G52D Duplicate
Matrix: GROUNDWATER
Collection Date: 09/26/2023 10:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	10/23/2023 12:08	R338352

Teklab, Inc. Environmental Laboratory

Sample Summary

Client: Ramboll
Client Project: JOP-23Q3

Work Order: 23091474
Report Date: 27-Oct-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23091474-001	G01D	Groundwater	1	09/25/2023 13:07
23091474-002	G02D	Groundwater	1	09/25/2023 14:06
23091474-003	G03	Groundwater	1	09/26/2023 12:35
23091474-004	G05	Groundwater	1	09/27/2023 10:14
23091474-005	G06	Groundwater	1	09/27/2023 11:16
23091474-006	G07	Groundwater	1	09/27/2023 11:57
23091474-007	G08	Groundwater	1	09/26/2023 14:32
23091474-008	G09	Groundwater	1	09/26/2023 14:10
23091474-009	G10	Groundwater	1	09/26/2023 13:32
23091474-010	G11	Groundwater	1	09/26/2023 11:47
23091474-011	G51D	Groundwater	1	09/25/2023 15:36
23091474-012	G52D	Groundwater	1	09/26/2023 10:30
23091474-013	G53D	Groundwater	1	09/27/2023 9:31
23091474-014	G54D	Groundwater	1	09/26/2023 12:35
23091474-015	XPW01	Groundwater	1	09/26/2023 9:26
23091474-016	XPW02	Groundwater	1	09/26/2023 10:11
23091474-017	XPW03	Groundwater	1	09/26/2023 10:51
23091474-018	Field Blank	Groundwater	1	09/28/2023 11:16
23091474-019	G52D Duplicate	Groundwater	1	09/26/2023 10:30

Teklab, Inc. Environmental Laboratory

Dates Report

Client: Ramboll **Work Order:** 23091474

Client Project: JOP-23Q3 **Report Date:** 27-Oct-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
23091474-001A	G01D	09/25/2023 13:07	09/26/2023 16:00		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-002A	G02D	09/25/2023 14:06	09/26/2023 16:00		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-003A	G03	09/26/2023 12:35	09/26/2023 16:00		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-004A	G05	09/27/2023 10:14	09/27/2023 18:42		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-005A	G06	09/27/2023 11:16	09/27/2023 18:42		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-006A	G07	09/27/2023 11:57	09/27/2023 18:42		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-007A	G08	09/26/2023 14:32	09/27/2023 18:42		
	See Attached for Subcontracting Analysis				10/23/2023 12:07
23091474-008A	G09	09/26/2023 14:10	09/27/2023 18:42		
	See Attached for Subcontracting Analysis				10/23/2023 12:07
23091474-009A	G10	09/26/2023 13:32	09/27/2023 18:42		
	See Attached for Subcontracting Analysis				10/23/2023 12:07
23091474-010A	G11	09/26/2023 11:47	09/26/2023 16:00		
	See Attached for Subcontracting Analysis				10/23/2023 12:07
23091474-011A	G51D	09/25/2023 15:36	09/26/2023 16:00		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-012A	G52D	09/26/2023 10:30	09/26/2023 16:00		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-013A	G53D	09/27/2023 9:31	09/27/2023 18:42		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-014A	G54D	09/26/2023 12:35	09/26/2023 16:00		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-015A	XPW01	09/26/2023 9:26	09/26/2023 16:00		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-016A	XPW02	09/26/2023 10:11	09/26/2023 16:00		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-017A	XPW03	09/26/2023 10:51	09/26/2023 16:00		
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-018A	Field Blank	09/28/2023 11:16	09/28/2023 15:05		

Dates Report

Client: Ramboll
Client Project: JOP-23Q3

Work Order: 23091474
Report Date: 27-Oct-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	See Attached for Subcontracting Analysis				10/23/2023 12:06
23091474-019A	G52D Duplicate	09/26/2023 10:30	09/26/2023 16:00		
	See Attached for Subcontracting Analysis				10/23/2023 12:08

Teklab, Inc. Environmental Laboratory

Receiving Check List

Client: Ramboll
Client Project: JOP-23Q3

Work Order: 23091474
Report Date: 27-Oct-23

Carrier: Frank Barthol

Received By: MBP

Completed by: Amber Dilallo
On: 26-Sep-23

Reviewed by: Ellie Hopkins
On: 29-Sep-23

Pages to follow: Chain of custody 9 Extra pages included 25

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	5.6		
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 - 9/26/2023 5:02:42 PM

pH strip #90719. - amberdilallo - 9/28/2023 9:12:51 AM

Samples collected on 9/27/23 were delivered to the laboratory on 9/27/23 at 1842 (on ice 5.6C - LTG1). AMD/ERH 9/28/23

pH strip #90719. - amberdilallo - 9/29/2023 7:57:41 AM

Samples collected on 9/28/23 were delivered to the laboratory on 9/28/23 at 1505 (on ice 5.8C - LTG1). AMD/ERH 9/29/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company:	Vistra Corp-Joppa
Address:	2100 Portland Road
Email To:	Brian.Voelker@VistraCorp.com
	samantha.davies@vistracorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker/Sam Davies
Copy To:	Roger Faughn
	roger.faughn@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N ↓ Analysis Test ↓	JOP-257-401	JOP-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G01D			9/25/23	1307		2			2							✓		✓				23091474-001
2	G02D			9/25/23	1406		2			2							✓		✓				002
3	G03			9/26/23	1235		2			2							✓		✓				003
4	G05						2			2							✓		✓				004
5	G06						2			2							✓		✓				005
6	G07						2			2							✓		✓				006
7	G08						2			2							✓		✓				007
8	G09						2			2							✓		✓				008
9	G10						2			2							✓		✓				009
10	G101-LF																						
11	G102																						
12	G105																						
13	G107																						
14	G109																						
15	G11			9/26/23	1147		2			2							✓		✓				23091474-010
16	G111-LF																						

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-23Q3 Rev 2	Tracy Conrad	9/26/23	1315	TB	9.26.23	1315	5.4	Y	N	Y
Ra226/228 only.	TB	9.26.23	1600	Maureen Rentz	9/26/23	1600				

PH checked 90719 - MP 9/26

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Conrad

SIGNATURE of SAMPLER: Tracy Conrad

DATE Signed (MM/DD/YY): 9/26/23

LTC 05

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:

Company:	Vistra Corp-Joppa
Address:	2100 Portland Road
Email To:	Brian.Voelker@VistraCorp.com
	samantha.davies@vistracorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker/Sam Davies
Copy To:	Roger Faughn
	roger.faughn@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	JOP-257-401	JOP-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G12D																						N/A
2	G12S																						
3	G13D																						
4	G13S																						
5	* G151			9/25/23																			
6	G153																						
7	G16S																						
8	G18S																						
9	G19D																						
10	G19S																						
11	G20D																						
12	G20S																						
13	G21D																						
14	G21S																						
15	G22D																						
16	G22S																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q3 Rev 2	Tracy Conrad	9/26/23	1315	FB	9.26.23	1315	
Ra-226/228 only.	FB	9.26.23	1600	Morgan Porter	9/26/23	1600	

* Well went Dry During Reads
pH checked 9/27/9 - MP
9/26

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Conrad

SIGNATURE of SAMPLER: Tracy Conrad DATE Signed (MM/DD/YY): 9/26/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

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

REGULATORY AGENCY

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

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

Section D Required Client Information — **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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	JOP-257-401	JOP-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G23S																						
2	G24S																						
3	G51D			9/25/23	1536		2			2							✓		✓				23091474-011
4	G52D			9/26/23	1030		2			2							✓		✓				012
5	G53D						2			2							✓		✓				013
6	G54D			9/26/23	1235		2			2							✓		✓				014
7	SG02																						
8	Well 2			9/26/23	0908																		
9	Well 3			9/26/23	0958																		
10	XPW01			9/26/23	926		2			2									✓				23091474-015
11	XPW02			9/26/23	1011		2			2									✓				016
12	XPW03			9/26/23	1051		2			2									✓				017
13	XSG01																						
14	Field Blank						2			2							✓		✓				23091474-018
15	G52D Duplicate			9/26/23	1030		2			2							✓		✓				019
16	G12S Duplicate																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q3 Rev 2	Tracy Carroll	9/26/23	1315	FB	9.26.23	1315	
Ra226/228 only.	FB	9.26.23	1600	Morgan Petri	9/26/23	1600	

PM checked 90719 - MP 9/26

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll — DATE Signed (MM/DD/YY): 9/26/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 3

Section A Required Client Information:

Company:	Vistra Corp-Joppa
Address:	2100 Portland Road
Email To:	Brian.Voelker@VistraCorp.com
	samantha.davies@vistracorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker/Sam Davies
Copy To:	Roger Faughn
	roger.faughn@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	JOP-257-401	JOP-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G01D						2			2							✓		✓				23091474-001
2	G02D						2			2							✓		✓				002
3	G03						2			2							✓		✓				003
4	G05			9/27/23	1014		2			2							✓		✓				004
5	G06			9/27/23	1116		2			2							✓		✓				005
6	G07			9/27/23	1157		2			2							✓		✓				006
7	G08			9/26/23	1432 1410		2			2							✓		✓				007
8	G09			9-26-23	~~1332~~ ↗		2			2							✓		✓				008
9	G10			9-26-23	1332		2			2							✓		✓				009
10	G101-LF			9-27-23	1306																		
11	G102			9-27-23	1014																		
12	G105			9-27-23	0903																		
13	G107 Dry during purge			9-27-23	DRY																		
14	G109			9-27-23	1528																		
15	G11						2			2							✓		✓				23091474-015
16	G111-LF			9-26-23	1454																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
JOP-23Q3 Rev 2	J. Cole	9-27	1842	Amber DiSalle	9/27/23	1842
Ra226/228 only.						

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
5.1c	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cole

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9-27-23

PHV 90719 CTA
DM 9/28/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Joppa	Report To:	Brian Voelker/Sam Davies	Attention:	Roger Faughn
Address:	2100 Portland Road	Copy To:	Roger Faughn	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com		roger.faughn@vistracorp.com	Address:	see Section A
	samantha.davies@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-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G12D																						N/A
2	G12S																						
3	G13D			9/27/23	1337																		
4	G13S			9/27/23	1314																		
5	G151																						
6	G153			9/27/23	904																		
7	G16S			9-27-23	1340																		
8	G18S			9-27-23	1149																		
9	G19D																						
10	G19S																						
11	G20D			9-27-23	1423																		
12	G20S			9-27-23	1442																		
13	G21D			9/27/23	1449																		
14	G21S			9/27/23	1424																		
15	G22D																						
16	G22S																						

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q3 Rev 2	J. Gulp	9-27-23	1842	Amadou Diallo	9/27/23	1842	
Ra226/228 only.							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Gulp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9-27-23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 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/Sam Davies	Attention:	Roger Faughn
Address:	2100 Portland Road	Copy To:	Roger Faughn	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com		roger.faughn@vistracorp.com	Address:	see Section A
	samantha.davies@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-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G23S			9-27-23	1232																		
2	G24S																						
3	G51D						2			2							✓		✓				23091474-011
4	G52D						2			2							✓		✓				012
5	G53D			9/27/23	9:31		2			2							✓		✓				013
6	G54D						2			2							✓		✓				014
7	SG02																						
8	Well 2																						
9	Well 3																						
10	XPW01						2			2									✓				23091474-015
11	XPW02						2			2									✓				016
12	XPW03						2			2									✓				017
13	XSG01																						
14	Field Blank						2			2							✓		✓				23091474-018
15	G52D Duplicate						2			2							✓		✓				019
16	G12S Duplicate																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q3 Rev 2	J. Colp	9-27	1842	Amber Dicello	9/27/23	1842	
Ra-226/228 only.							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp DATE Signed (MM/DD/YY): 9-27-23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 3

Section A Required Client Information:

Company:	Vistra Corp-Joppa
Address:	2100 Portland Road
Email To:	Brian.Voelker@VistraCorp.com
	samantha.davies@vistracorp.com
Phone:	(217) 753-8911 Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker/Sam Davies
Copy To:	Roger Faughn
	roger.faughn@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes: 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	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-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G01D						2			2							✓		✓				23091474-001
2	G02D						2			2							✓		✓				002
3	G03						2			2							✓		✓				003
4	G05						2			2							✓		✓				004
5	G06						2			2							✓		✓				005
6	G07						2			2							✓		✓				006
7	G08						2			2							✓		✓				007
8	G09						2			2							✓		✓				008
9	G10						2			2							✓		✓				009
10	G101-LF																						
11	G102																						
12	G105																						
13	G107																						
14	G109																						
15	G11						2			2							✓		✓				23091474-010
16	G111-LF																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
JOP-23Q3 Rev 2	[signature]	9-28-23	15:05	[signature]	9-28-23	15:05	5.8	Y	N	Y
Ra226/228 only.				Morgan [signature]	9/28/23	1505				
							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:

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

pH √90719 LTG 1
Omm 9/28/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Joppa	Report To:	Brian Voelker/Sam Davies	Attention:	Roger Faughn
Address:	2100 Portland Road	Copy To:	Roger Faughn	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com		roger.faughn@vistracorp.com	Address:	see Section A
	samantha.davies@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-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G12D			9.28.23	09 49																		
2	G12S			9-28-23	09 19																		N/A
3	G13D																						
4	G13S																						
5	G151																						
6	G153																						
7	G16S																						
8	G18S			9-29-23	09 16																		
9	G19D			9-29-23	09 47																		
10	G19S																						
11	G20D																						
12	G20S																						
13	G21D																						
14	G21S																						
15	G22D			9-29-23	10 22																		
16	G22S			9-29-23	10 13																		

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q3 Rev 2	Britt Hill	9-29-23	15:05	Britt Hill	9-29-23	15:05	
Ra226/228 only.				Maureen Petit	9/29/23	1905	

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

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
Email To:	Brian.Voelker@VistraCorp.com
	samantha.davies@vistracorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker/Sam Davies
Copy To:	Roger Faughn
	roger.faughn@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Roger Faughn
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-257-402	JOP-845-401	JOP-PGMP-401	JOP-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G23S																						
2	G24S			9-28-23	8 34																		
3	G51D						2			2							✓		✓				23091474-011
4	G52D						2			2							✓		✓				012
5	G53D						2			2							✓		✓				013
6	G54D						2			2							✓		✓				014
7	SG02																						
8	Well 2																						
9	Well 3																						
10	XPW01						2			2									✓				23091474-015
11	XPW02						2			2									✓				016
12	XPW03						2			2									✓				017
13	XSG01																						
14	Field Blank			9-28-23	11 16		2			2							✓		✓				23091474-018
15	G52D Duplicate						2			2							✓		✓				019
16	G12S Duplicate																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
JOP-23Q3 Rev 2	Brett Hill	9-28-23	15:05	Brett Hill	9-28-23	15:05	
Ra226/228 only.				Morgan Porter	9/28/23	1505	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 10/26/2023 5:15:50 PM

JOB DESCRIPTION

Radium-226 and Radium-228
SDG NUMBER 23091474

JOB NUMBER

160-51681-1

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
10/26/2023 5:15:50 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: 160-51681-1
SDG: 23091474

Job ID: 160-51681-1

Laboratory: Eurofins St. Louis

Narrative

Job Narrative
160-51681-1

Receipt
The samples were received on 10/2/2023 12:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved. The temperatures of the 2 coolers at receipt time were 21.2º C and 22.0º C.

RAD
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Radium-228 batch 630505
Samples were prepped at a reduced volume due to the presence of matrix interferences: 23091474-001 (160-51681-1), 23091474-004 (160-51681-4), 23091474-005 (160-51681-5), 23091474-006 (160-51681-6) and 23091474-008 (160-51681-8). The detection goal was not met due to interferences attributed to matrix. 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

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: QC Level: 3

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project# 23091474

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT Billing/PO: 35096
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.

Ra226/228

160-51681 Chain of Custody

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	
	23091474-001	9/25/23 1307	HNO3	Groundwater	✔
	23091474-002	9/25/23 1406	HNO3	Groundwater	✔
	23091474-003	9/26/23 1235	HNO3	Groundwater	✔
	23091474-004	9/27/23 1014	HNO3	Groundwater	✔
	23091474-005	9/27/23 1116	HNO3	Groundwater	✔
	23091474-006	9/27/23 1157	HNO3	Groundwater	✔
	23091474-007	9/26/23 1432	HNO3	Groundwater	✔
	23091474-008	9/26/23 1410	HNO3	Groundwater	✔
	23091474-009	9/26/23 1332	HNO3	Groundwater	✔
	23091474-010	9/26/23 1147	HNO3	Groundwater	✔
	23091474-011	9/25/23 1536	HNO3	Groundwater	✔

*Relinquished By	Date/Time	Received By	Date/Time
	9/29/23 1702		10/2/23 0955
	10/2/23 9745		10/2/23 1350

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

ATTACHMENT B
845 QUARTERLY REPORT - QUARTER 3, 2023
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

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: 3

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 22/228 per standard GW methods.
Changes to methods must be approved by Teklab, Inc.
Batch QC is required for all analyses requested. Excel EDD requested. IL site.

Project# 23091474

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standad TAT Billing/PO: 35096 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											
	23091474-012	9/26/23 1030	HNO3	Groundwater	✔											
	23091474-013	9/27/23 0931	HNO3	Groundwater	✔											
	23091474-014	9/26/23 1235	HNO3	Groundwater	✔											
	23091474-015	9/26/23 0926	HNO3	Groundwater	✔											
	23091474-016	9/26/231011	HNO3	Groundwater	✔											
	23091474-017	9/26/23 1051	HNO3	Groundwater	✔											
	23091474-018	9/28/23 1116	HNO3	Groundwater	✔											
	23091474-019	9/26/23 1030	HNO3	Groundwater	✔											
			HNO3	Groundwater												
			HNO3	Groundwater												
			HNO3	Groundwater												

*Relinquished By	Date/Time	Received By	Date/Time
Amber Diallo	9/29/23 1700		10/2/23 1055
	10/2/23 1245		10/2/23 1250

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: 160-51681-1
SDG Number: 23091474

Login Number: 51681
List Number: 1
Creator: Awalt, Jayna K

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: 460-51681-1
SDG: 23091474

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: 160-51681-1
SDG: 23091474

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: 160-51681-1
SDG: 23091474

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-51681-1	23091474-001	Water	09/25/23 13:07	10/02/23 12:50
160-51681-2	23091474-002	Water	09/25/23 14:06	10/02/23 12:50
160-51681-3	23091474-003	Water	09/26/23 12:35	10/02/23 12:50
160-51681-4	23091474-004	Water	09/27/23 10:14	10/02/23 12:50
160-51681-5	23091474-005	Water	09/27/23 11:16	10/02/23 12:50
160-51681-6	23091474-006	Water	09/27/23 11:57	10/02/23 12:50
160-51681-7	23091474-007	Water	09/26/23 14:32	10/02/23 12:50
160-51681-8	23091474-008	Water	09/26/23 14:10	10/02/23 12:50
160-51681-9	23091474-009	Water	09/26/23 13:32	10/02/23 12:50
160-51681-10	23091474-010	Water	09/26/23 11:47	10/02/23 12:50
160-51681-11	23091474-011	Water	09/25/23 15:36	10/02/23 12:50
160-51681-12	23091474-012	Water	09/26/23 10:30	10/02/23 12:50
160-51681-13	23091474-013	Water	09/27/23 09:31	10/02/23 12:50
160-51681-14	23091474-014	Water	09/26/23 12:35	10/02/23 12:50
160-51681-15	23091474-015	Water	09/26/23 09:26	10/02/23 12:50
160-51681-16	23091474-016	Water	09/26/23 10:11	10/02/23 12:50
160-51681-17	23091474-017	Water	09/26/23 10:51	10/02/23 12:50
160-51681-18	23091474-018	Water	09/28/23 11:16	10/02/23 12:50
160-51681-19	23091474-019	Water	09/26/23 10:30	10/02/23 12:50

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Client Sample ID: 23091474-001
Date Collected: 09/25/23 13:07
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-1
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	0.175	U	0.345	0.345	1.00	0.606	pCi/L	10/03/23 09:51	10/25/23 09:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*46.2*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:00*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**3.60**	**G**	1.16	1.21	1.00	1.30	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*46.2*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*81.5*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	**3.77**		1.21	1.26	5.00	1.30	pCi/L		10/25/23 16:18	1

Client Sample ID: 23091474-002
Date Collected: 09/25/23 14:06
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-2
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	**0.244**		0.154	0.156	1.00	0.194	pCi/L	10/03/23 09:51	10/25/23 09:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:02*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.26**		0.564	0.601	1.00	0.561	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*81.1*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	**2.50**		0.585	0.621	5.00	0.561	pCi/L		10/25/23 16:18	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Client Sample ID: 23091474-003
Date Collected: 09/26/23 12:35
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-3
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	0.116	U	0.154	0.154	1.00	0.257	pCi/L	10/03/23 09:51	10/25/23 09:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.1*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:02*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.12**		0.746	0.771	1.00	0.905	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.1*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*85.6*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	**2.24**		0.762	0.786	5.00	0.905	pCi/L		10/25/23 16:18	1

Client Sample ID: 23091474-004
Date Collected: 09/27/23 10:14
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-4
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	0.257	U	0.283	0.284	1.00	0.450	pCi/L	10/03/23 09:51	10/25/23 09:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*41.6*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:02*	*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	**6.03**	**G**	1.69	1.78	1.00	1.94	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*41.6*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*80.4*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	**6.29**		1.71	1.80	5.00	1.94	pCi/L		10/25/23 16:18	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Client Sample ID: 23091474-005
Date Collected: 09/27/23 11:16
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-5
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	0.157	U	0.229	0.229	1.00	0.391	pCi/L	10/03/23 09:51	10/25/23 09:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*50.6*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:02*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.88**	**G**	1.03	1.06	1.00	1.22	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*50.6*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*83.4*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	**3.04**		1.06	1.08	5.00	1.22	pCi/L		10/25/23 16:18	1

Client Sample ID: 23091474-006
Date Collected: 09/27/23 11:57
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-6
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	0.0783	U	0.156	0.156	1.00	0.280	pCi/L	10/03/23 09:51	10/25/23 09:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.5*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:02*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.45**	**G**	0.860	0.889	1.00	1.12	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.5*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*80.0*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	**2.53**		0.874	0.903	5.00	1.12	pCi/L		10/25/23 16:18	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Client Sample ID: 23091474-007
Date Collected: 09/26/23 14:32
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-7
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	0.0966	U	0.154	0.155	1.00	0.269	pCi/L	10/03/23 09:51	10/25/23 09:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.9*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:03*	*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	**1.58**		0.657	0.673	1.00	0.874	pCi/L	10/03/23 09:54	10/23/23 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.9*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:07*	*1*
Y Carrier	*82.6*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:07*	*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	**1.67**		0.675	0.691	5.00	0.874	pCi/L		10/25/23 16:18	1

Client Sample ID: 23091474-008
Date Collected: 09/26/23 14:10
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-8
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	0.136	U	0.173	0.173	1.00	0.284	pCi/L	10/03/23 09:51	10/25/23 09:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*56.5*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:04*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.00**	**G**	0.917	0.936	1.00	1.25	pCi/L	10/03/23 09:54	10/23/23 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*56.5*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:07*	*1*
Y Carrier	*82.6*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:07*	*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	**2.14**		0.933	0.952	5.00	1.25	pCi/L		10/25/23 16:18	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Client Sample ID: 23091474-009
Date Collected: 09/26/23 13:32
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-9
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	**0.332**		0.196	0.198	1.00	0.245	pCi/L	10/03/23 09:51	10/25/23 09:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:04*	*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	**0.991**		0.587	0.594	1.00	0.860	pCi/L	10/03/23 09:54	10/23/23 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:07*	*1*
Y Carrier	*83.4*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:07*	*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	**1.32**		0.619	0.626	5.00	0.860	pCi/L		10/25/23 16:18	1

Client Sample ID: 23091474-010
Date Collected: 09/26/23 11:47
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-10
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	0.0764	U	0.102	0.102	1.00	0.170	pCi/L	10/03/23 09:51	10/25/23 09:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.4*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:04*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.37**		0.604	0.642	1.00	0.637	pCi/L	10/03/23 09:54	10/23/23 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.4*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:07*	*1*
Y Carrier	*83.7*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:07*	*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	**2.44**		0.613	0.650	5.00	0.637	pCi/L		10/25/23 16:18	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Client Sample ID: 23091474-011
Date Collected: 09/25/23 15:36
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-11
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	0.0156	U	0.141	0.141	1.00	0.284	pCi/L	10/03/23 09:51	10/25/23 09:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.1*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:04*	*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	**1.55**		0.595	0.612	1.00	0.735	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.1*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*83.7*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	**1.57**		0.611	0.628	5.00	0.735	pCi/L		10/25/23 16:18	1

Client Sample ID: 23091474-012
Date Collected: 09/26/23 10:30
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-12
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	**0.280**		0.161	0.163	1.00	0.202	pCi/L	10/03/23 09:51	10/25/23 09:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.4*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:04*	*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	**1.42**		0.546	0.562	1.00	0.700	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.4*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*77.8*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	**1.70**		0.569	0.585	5.00	0.700	pCi/L		10/25/23 16:18	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Client Sample ID: 23091474-013
Date Collected: 09/27/23 09:31
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-13
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	0.252		0.148	0.149	1.00	0.178	pCi/L	10/03/23 09:51	10/25/23 09:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.7*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:04*	*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	0.893		0.445	0.452	1.00	0.592	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.7*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*78.5*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	1.14		0.469	0.476	5.00	0.592	pCi/L		10/25/23 16:18	1

Client Sample ID: 23091474-014
Date Collected: 09/26/23 12:35
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-14
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	0.307		0.171	0.174	1.00	0.218	pCi/L	10/03/23 09:51	10/25/23 09:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.1*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:10*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.891		0.471	0.478	1.00	0.658	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.1*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*76.6*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	1.20		0.501	0.509	5.00	0.658	pCi/L		10/25/23 16:18	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Client Sample ID: 23091474-015
Date Collected: 09/26/23 09:26
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-15
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	0.378		0.231	0.234	1.00	0.312	pCi/L	10/03/23 09:51	10/25/23 09:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.8*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:10*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.959		0.592	0.599	1.00	0.875	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.8*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*82.6*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	1.34		0.635	0.643	5.00	0.875	pCi/L		10/25/23 16:18	1

Client Sample ID: 23091474-016
Date Collected: 09/26/23 10:11
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-16
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	0.184	U	0.186	0.187	1.00	0.295	pCi/L	10/03/23 09:51	10/25/23 09:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.1*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:10*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.22		0.543	0.554	1.00	0.728	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.1*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*80.4*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	1.40		0.574	0.585	5.00	0.728	pCi/L		10/25/23 16:18	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Client Sample ID: 23091474-017
Date Collected: 09/26/23 10:51
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-17
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	0.0574	U	0.114	0.114	1.00	0.207	pCi/L	10/03/23 09:51	10/25/23 09:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.5*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:10*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.820**		0.401	0.408	1.00	0.520	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.5*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*84.9*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	**0.878**		0.417	0.424	5.00	0.520	pCi/L		10/26/23 13:57	1

Client Sample ID: 23091474-018
Date Collected: 09/28/23 11:16
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-18
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	0.0288	U	0.0993	0.0993	1.00	0.192	pCi/L	10/03/23 09:51	10/25/23 09:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:10*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.310	U	0.354	0.355	1.00	0.579	pCi/L	10/03/23 09:54	10/23/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*1*
Y Carrier	*82.2*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:06*	*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	0.339	U	0.368	0.369	5.00	0.579	pCi/L		10/26/23 13:57	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Client Sample ID: 23091474-019

Date Collected: 09/26/23 10:30
Date Received: 10/02/23 12:50

Lab Sample ID: 160-51681-19

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	0.412		0.173	0.177	1.00	0.174	pCi/L	10/03/23 09:51	10/25/23 09:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:10*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.63		0.508	0.529	1.00	0.578	pCi/L	10/03/23 09:54	10/23/23 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:08*	*1*
Y Carrier	*81.5*		*30 - 110*	*10/03/23 09:54*	*10/23/23 12:08*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.04		0.537	0.558	5.00	0.578	pCi/L		10/26/23 13:57	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-630504/1-A
Matrix: Water
Analysis Batch: 633327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630504

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.03281	U	0.0715	0.0716	1.00	0.178	pCi/L	10/03/23 09:51	10/25/23 09:00	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*30 - 110*	*10/03/23 09:51*	*10/25/23 09:00*	*1*

Lab Sample ID: LCS 160-630504/2-A
Matrix: Water
Analysis Batch: 633327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630504

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.949		1.15	1.00	0.174	pCi/L	88	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.6*		*30 - 110*

Lab Sample ID: 160-51681-2 DU
Matrix: Water
Analysis Batch: 633327

Client Sample ID: 23091474-002
Prep Type: Total/NA
Prep Batch: 630504

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.244			0.5255		0.195	1.00	0.185	pCi/L			0.80	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*91.0*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-630505/1-A
Matrix: Water
Analysis Batch: 632929

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630505

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3289	U	0.534	0.535	1.00	0.913	pCi/L	10/03/23 09:54	10/23/23 16:49	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*30 - 110*	*10/03/23 09:54*	*10/23/23 16:49*	*1*
Y Carrier	*86.0*		*30 - 110*	*10/03/23 09:54*	*10/23/23 16:49*	*1*

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-630505/2-A
Matrix: Water
Analysis Batch: 632929

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630505

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.78	9.425		1.57	1.00	0.969	pCi/L	121	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.6*		*30 - 110*
Y Carrier	*83.4*		*30 - 110*

Lab Sample ID: 160-51681-2 DU
Matrix: Water
Analysis Batch: 632932

Client Sample ID: 23091474-002
Prep Type: Total/NA
Prep Batch: 630505

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	2.26			3.234		0.705	1.00	0.591	pCi/L			0.75	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*91.0*		*30 - 110*
Y Carrier	*82.2*		*30 - 110*

QC Association Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Rad

Prep Batch: 630504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51681-1	23091474-001	Total/NA	Water	PrecSep-21	
160-51681-2	23091474-002	Total/NA	Water	PrecSep-21	
160-51681-3	23091474-003	Total/NA	Water	PrecSep-21	
160-51681-4	23091474-004	Total/NA	Water	PrecSep-21	
160-51681-5	23091474-005	Total/NA	Water	PrecSep-21	
160-51681-6	23091474-006	Total/NA	Water	PrecSep-21	
160-51681-7	23091474-007	Total/NA	Water	PrecSep-21	
160-51681-8	23091474-008	Total/NA	Water	PrecSep-21	
160-51681-9	23091474-009	Total/NA	Water	PrecSep-21	
160-51681-10	23091474-010	Total/NA	Water	PrecSep-21	
160-51681-11	23091474-011	Total/NA	Water	PrecSep-21	
160-51681-12	23091474-012	Total/NA	Water	PrecSep-21	
160-51681-13	23091474-013	Total/NA	Water	PrecSep-21	
160-51681-14	23091474-014	Total/NA	Water	PrecSep-21	
160-51681-15	23091474-015	Total/NA	Water	PrecSep-21	
160-51681-16	23091474-016	Total/NA	Water	PrecSep-21	
160-51681-17	23091474-017	Total/NA	Water	PrecSep-21	
160-51681-18	23091474-018	Total/NA	Water	PrecSep-21	
160-51681-19	23091474-019	Total/NA	Water	PrecSep-21	
MB 160-630504/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-630504/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-51681-2 DU	23091474-002	Total/NA	Water	PrecSep-21	

Prep Batch: 630505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51681-1	23091474-001	Total/NA	Water	PrecSep_0	
160-51681-2	23091474-002	Total/NA	Water	PrecSep_0	
160-51681-3	23091474-003	Total/NA	Water	PrecSep_0	
160-51681-4	23091474-004	Total/NA	Water	PrecSep_0	
160-51681-5	23091474-005	Total/NA	Water	PrecSep_0	
160-51681-6	23091474-006	Total/NA	Water	PrecSep_0	
160-51681-7	23091474-007	Total/NA	Water	PrecSep_0	
160-51681-8	23091474-008	Total/NA	Water	PrecSep_0	
160-51681-9	23091474-009	Total/NA	Water	PrecSep_0	
160-51681-10	23091474-010	Total/NA	Water	PrecSep_0	
160-51681-11	23091474-011	Total/NA	Water	PrecSep_0	
160-51681-12	23091474-012	Total/NA	Water	PrecSep_0	
160-51681-13	23091474-013	Total/NA	Water	PrecSep_0	
160-51681-14	23091474-014	Total/NA	Water	PrecSep_0	
160-51681-15	23091474-015	Total/NA	Water	PrecSep_0	
160-51681-16	23091474-016	Total/NA	Water	PrecSep_0	
160-51681-17	23091474-017	Total/NA	Water	PrecSep_0	
160-51681-18	23091474-018	Total/NA	Water	PrecSep_0	
160-51681-19	23091474-019	Total/NA	Water	PrecSep_0	
MB 160-630505/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-630505/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-51681-2 DU	23091474-002	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

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)
160-51681-1	23091474-001	46.2
160-51681-2	23091474-002	88.0
160-51681-2 DU	23091474-002	91.0
160-51681-3	23091474-003	73.1
160-51681-4	23091474-004	41.6
160-51681-5	23091474-005	50.6
160-51681-6	23091474-006	79.5
160-51681-7	23091474-007	83.9
160-51681-8	23091474-008	56.5
160-51681-9	23091474-009	85.3
160-51681-10	23091474-010	80.4
160-51681-11	23091474-011	85.1
160-51681-12	23091474-012	81.4
160-51681-13	23091474-013	81.7
160-51681-14	23091474-014	83.1
160-51681-15	23091474-015	84.8
160-51681-16	23091474-016	97.1
160-51681-17	23091474-017	76.5
160-51681-18	23091474-018	88.0
160-51681-19	23091474-019	86.6
LCS 160-630504/2-A	Lab Control Sample	94.6
MB 160-630504/1-A	Method Blank	89.5

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
160-51681-1	23091474-001	46.2	81.5
160-51681-2	23091474-002	88.0	81.1
160-51681-2 DU	23091474-002	91.0	82.2
160-51681-3	23091474-003	73.1	85.6
160-51681-4	23091474-004	41.6	80.4
160-51681-5	23091474-005	50.6	83.4
160-51681-6	23091474-006	79.5	80.0
160-51681-7	23091474-007	83.9	82.6
160-51681-8	23091474-008	56.5	82.6
160-51681-9	23091474-009	85.3	83.4
160-51681-10	23091474-010	80.4	83.7
160-51681-11	23091474-011	85.1	83.7
160-51681-12	23091474-012	81.4	77.8
160-51681-13	23091474-013	81.7	78.5
160-51681-14	23091474-014	83.1	76.6
160-51681-15	23091474-015	84.8	82.6
160-51681-16	23091474-016	97.1	80.4
160-51681-17	23091474-017	76.5	84.9

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51681-1
SDG: 23091474

Method: 904.0 - Radium-228 (GFPC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
160-51681-18	23091474-018	88.0	82.2
160-51681-19	23091474-019	86.6	81.5
LCS 160-630505/2-A	Lab Control Sample	94.6	83.4
MB 160-630505/1-A	Method Blank	89.5	86.0

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 3, 2023

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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	E002	Antimony, total	mg/L	03/05/21 - 09/26/23	12	100	All ND - Last	0.001	0.001
G03	UA	E002	Arsenic, total	mg/L	03/05/21 - 09/26/23	12	42	CI around geomean	0.0011	0.00170
G03	UA	E002	Barium, total	mg/L	03/05/21 - 09/26/23	12	0	CI around mean	0.059	0.254
G03	UA	E002	Beryllium, total	mg/L	03/05/21 - 09/26/23	12	92	CI around median	0.001	0.00110
G03	UA	E002	Boron, total	mg/L	03/05/21 - 09/26/23	12	0	CI around mean	0.228	0.0531
G03	UA	E002	Cadmium, total	mg/L	03/05/21 - 09/26/23	12	100	All ND - Last	0.001	0.00100
G03	UA	E002	Chloride, total	mg/L	03/05/21 - 09/26/23	12	0	CI around mean	20.6	32.0
G03	UA	E002	Chromium, total	mg/L	03/05/21 - 09/26/23	12	8	CI around mean	0.00291	0.00390
G03	UA	E002	Cobalt, total	mg/L	03/05/21 - 09/26/23	12	25	CI around geomean	0.0014	0.00150
G03	UA	E002	Fluoride, total	mg/L	03/05/21 - 09/26/23	12	0	CI around mean	0.191	0.250
G03	UA	E002	Lead, total	mg/L	03/05/21 - 09/26/23	12	33	CI around geomean	0.00113	0.00150
G03	UA	E002	Lithium, total	mg/L	03/05/21 - 09/26/23	12	67	CI around median	0.003	0.003
G03	UA	E002	Mercury, total	mg/L	03/05/21 - 09/26/23	12	100	All ND - Last	0.0002	0.0002
G03	UA	E002	Molybdenum, total	mg/L	03/05/21 - 09/26/23	12	83	CI around median	0.0015	0.00150
G03	UA	E002	pH (field)	SU	03/05/21 - 09/26/23	12	0	CI around mean	6.2/6.4	6.0/6.8
G03	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/05/21 - 09/26/23	12	0	CI around mean	0.307	1.70
G03	UA	E002	Selenium, total	mg/L	03/05/21 - 09/26/23	12	100	All ND - Last	0.001	0.00420
G03	UA	E002	Sulfate, total	mg/L	03/05/21 - 09/26/23	12	0	CI around mean	71.2	39.0
G03	UA	E002	Thallium, total	mg/L	03/05/21 - 09/26/23	12	100	All ND - Last	0.002	0.00200
G03	UA	E002	Total Dissolved Solids	mg/L	03/05/21 - 09/26/23	12	0	CI around median	284	334
G05	UA	E002	Antimony, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.001
G05	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/27/23	12	92	CI around median	0.001	0.00170
G05	UA	E002	Barium, total	mg/L	03/04/21 - 09/27/23	12	0	CB around linear reg	0.159	0.254
G05	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.00110
G05	UA	E002	Boron, total	mg/L	03/04/21 - 09/27/23	12	0	CB around linear reg	-0.0117	0.0531
G05	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.00100
G05	UA	E002	Chloride, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	16.6	32.0

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G05	UA	E002	Chromium, total	mg/L	03/04/21 - 09/27/23	12	75	CI around median	0.0015	0.00390
G05	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	0.00601	0.00150
G05	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	0.314	0.250
G05	UA	E002	Lead, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.00150
G05	UA	E002	Lithium, total	mg/L	03/04/21 - 09/27/23	12	75	CI around median	0.003	0.003
G05	UA	E002	Mercury, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.0002	0.0002
G05	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/27/23	12	8	CI around mean	0.00408	0.00150
G05	UA	E002	pH (field)	SU	03/04/21 - 09/27/23	12	0	CI around mean	6.4/6.5	6.0/6.8
G05	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/27/23	12	0	CI around geomean	0.344	1.70
G05	UA	E002	Selenium, total	mg/L	03/04/21 - 09/27/23	12	25	CB around linear reg	-0.000179	0.00420
G05	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	82	39.0
G05	UA	E002	Thallium, total	mg/L	03/04/21 - 09/27/23	12	92	CI around median	0.002	0.00200
G05	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	352	334
G06	UA	E002	Antimony, total	mg/L	03/04/21 - 09/27/23	12	92	CI around median	0.001	0.001
G06	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/27/23	12	58	CI around median	0.001	0.00170
G06	UA	E002	Barium, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	0.0269	0.254
G06	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.00110
G06	UA	E002	Boron, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	3.08	0.0531
G06	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.00100
G06	UA	E002	Chloride, total	mg/L	03/04/21 - 09/27/23	12	0	CI around median	21	32.0
G06	UA	E002	Chromium, total	mg/L	03/04/21 - 09/27/23	12	33	CI around mean	0.00143	0.00390
G06	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/27/23	12	58	CI around median	0.001	0.00150
G06	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	0.253	0.250
G06	UA	E002	Lead, total	mg/L	03/04/21 - 09/27/23	12	83	CI around median	0.001	0.00150
G06	UA	E002	Lithium, total	mg/L	03/04/21 - 09/27/23	12	25	CI around median	0.0031	0.003
G06	UA	E002	Mercury, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.0002	0.0002
G06	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.0015	0.00150

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G06	UA	E002	pH (field)	SU	03/04/21 - 09/27/23	11	0	CI around mean	6.4/6.6	6.0/6.8
G06	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/27/23	12	0	CI around geomean	0.48	1.70
G06	UA	E002	Selenium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.00420
G06	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	207	39.0
G06	UA	E002	Thallium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.002	0.00200
G06	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	506	334
G07	UA	E002	Antimony, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.001
G07	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/27/23	12	75	CI around median	0.001	0.00170
G07	UA	E002	Barium, total	mg/L	03/04/21 - 09/27/23	12	0	CI around geomean	0.0415	0.254
G07	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/27/23	12	92	CI around median	0.001	0.00110
G07	UA	E002	Boron, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	4.29	0.0531
G07	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.00100
G07	UA	E002	Chloride, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	20.2	32.0
G07	UA	E002	Chromium, total	mg/L	03/04/21 - 09/27/23	12	33	CI around geomean	0.00196	0.00390
G07	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	0.00136	0.00150
G07	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/27/23	12	0	CI around median	0.35	0.250
G07	UA	E002	Lead, total	mg/L	03/04/21 - 09/27/23	12	75	CI around median	0.001	0.00150
G07	UA	E002	Lithium, total	mg/L	03/04/21 - 09/27/23	12	67	CI around median	0.003	0.003
G07	UA	E002	Mercury, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.0002	0.0002
G07	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/27/23	12	92	CI around median	0.0015	0.00150
G07	UA	E002	pH (field)	SU	03/04/21 - 09/27/23	12	0	CI around mean	6.2/6.6	6.0/6.8
G07	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/27/23	12	0	CB around linear reg	1.09	1.70
G07	UA	E002	Selenium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.001	0.00420
G07	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	249	39.0
G07	UA	E002	Thallium, total	mg/L	03/04/21 - 09/27/23	12	100	All ND - Last	0.002	0.00200
G07	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/27/23	12	0	CI around mean	572	334
G08	UA	E002	Antimony, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.001

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G08	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/26/23	12	8	CI around mean	0.00595	0.00170
G08	UA	E002	Barium, total	mg/L	03/04/21 - 09/26/23	12	0	CB around T-S line	-0.398	0.254
G08	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.001	0.00110
G08	UA	E002	Boron, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	4.1	0.0531
G08	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.00100
G08	UA	E002	Chloride, total	mg/L	03/04/21 - 09/26/23	12	0	CI around median	14	32.0
G08	UA	E002	Chromium, total	mg/L	03/04/21 - 09/26/23	12	17	CI around geomean	0.00162	0.00390
G08	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/26/23	12	8	CI around geomean	0.00319	0.00150
G08	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	0.202	0.250
G08	UA	E002	Lead, total	mg/L	03/04/21 - 09/26/23	12	83	CI around median	0.001	0.00150
G08	UA	E002	Lithium, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.003	0.003
G08	UA	E002	Mercury, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.0002	0.0002
G08	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/26/23	12	17	CI around median	0.0017	0.00150
G08	UA	E002	pH (field)	SU	03/04/21 - 09/26/23	12	0	CI around median	6.8/7.0	6.0/6.8
G08	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/26/23	12	0	CI around mean	0.372	1.70
G08	UA	E002	Selenium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.00420
G08	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	214	39.0
G08	UA	E002	Thallium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.002	0.00200
G08	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	548	334
G09	UA	E002	Antimony, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.001	0.001
G09	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/26/23	12	17	CI around mean	0.00235	0.00170
G09	UA	E002	Barium, total	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	-0.00515	0.254
G09	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/26/23	12	75	CI around median	0.001	0.00110
G09	UA	E002	Boron, total	mg/L	03/04/21 - 09/26/23	12	0	CB around T-S line	3.64	0.0531
G09	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.00100
G09	UA	E002	Chloride, total	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	13.6	32.0
G09	UA	E002	Chromium, total	mg/L	03/04/21 - 09/26/23	12	25	CI around mean	0.00178	0.00390

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G09	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	-0.00188	0.00150
G09	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	0.279	0.250
G09	UA	E002	Lead, total	mg/L	03/04/21 - 09/26/23	12	67	CI around median	0.001	0.00150
G09	UA	E002	Lithium, total	mg/L	03/04/21 - 09/26/23	12	17	CI around median	0.0034	0.003
G09	UA	E002	Mercury, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.0002	0.0002
G09	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.0015	0.00150
G09	UA	E002	pH (field)	SU	03/04/21 - 09/26/23	12	0	CI around median	6.0/6.4	6.0/6.8
G09	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/26/23	12	0	CI around geomean	0.249	1.70
G09	UA	E002	Selenium, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.001	0.00420
G09	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	260	39.0
G09	UA	E002	Thallium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.002	0.00200
G09	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	453	334
G10	UA	E002	Antimony, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.001
G10	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/26/23	12	33	CI around geomean	0.00111	0.00170
G10	UA	E002	Barium, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	0.039	0.254
G10	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.001	0.00110
G10	UA	E002	Boron, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	3.61	0.0531
G10	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.00100
G10	UA	E002	Chloride, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	25.7	32.0
G10	UA	E002	Chromium, total	mg/L	03/04/21 - 09/26/23	12	33	CI around mean	0.0013	0.00390
G10	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	-0.00202	0.00150
G10	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	0.272	0.250
G10	UA	E002	Lead, total	mg/L	03/04/21 - 09/26/23	12	83	CI around median	0.001	0.00150
G10	UA	E002	Lithium, total	mg/L	03/04/21 - 09/26/23	12	42	CI around median	0.003	0.003
G10	UA	E002	Mercury, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.0002	0.0002
G10	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/26/23	12	58	CI around median	0.0015	0.00150
G10	UA	E002	pH (field)	SU	03/04/21 - 09/26/23	12	0	CI around mean	6.5/6.7	6.0/6.8

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G10	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/26/23	12	0	CI around mean	0.503	1.70
G10	UA	E002	Selenium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.00420
G10	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	372	39.0
G10	UA	E002	Thallium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.002	0.00200
G10	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	743	334
G11	UA	E002	Antimony, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.001
G11	UA	E002	Arsenic, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.00170
G11	UA	E002	Barium, total	mg/L	03/04/21 - 09/26/23	12	0	CI around geomean	0.0129	0.254
G11	UA	E002	Beryllium, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.001	0.00110
G11	UA	E002	Boron, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	0.288	0.0531
G11	UA	E002	Cadmium, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.001	0.00100
G11	UA	E002	Chloride, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	32.8	32.0
G11	UA	E002	Chromium, total	mg/L	03/04/21 - 09/26/23	12	83	CI around median	0.0015	0.00390
G11	UA	E002	Cobalt, total	mg/L	03/04/21 - 09/26/23	12	33	CI around geomean	0.000945	0.00150
G11	UA	E002	Fluoride, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	0.172	0.250
G11	UA	E002	Lead, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.001	0.00150
G11	UA	E002	Lithium, total	mg/L	03/04/21 - 09/26/23	12	17	CI around median	0.0035	0.003
G11	UA	E002	Mercury, total	mg/L	03/04/21 - 09/26/23	12	100	All ND - Last	0.0002	0.0002
G11	UA	E002	Molybdenum, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.0015	0.00150
G11	UA	E002	pH (field)	SU	03/04/21 - 09/26/23	12	0	CI around median	5.8/6.0	6.0/6.8
G11	UA	E002	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 09/26/23	12	0	CI around geomean	0.199	1.70
G11	UA	E002	Selenium, total	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	0.00401	0.00420
G11	UA	E002	Sulfate, total	mg/L	03/04/21 - 09/26/23	12	0	CB around linear reg	2.87	39.0
G11	UA	E002	Thallium, total	mg/L	03/04/21 - 09/26/23	12	92	CI around median	0.002	0.00200
G11	UA	E002	Total Dissolved Solids	mg/L	03/04/21 - 09/26/23	12	0	CI around mean	693	334
G51D	UA	E002	Antimony, total	mg/L	12/03/15 - 09/25/23	17	100	All ND - Last	0.001	0.001
G51D	UA	E002	Arsenic, total	mg/L	12/03/15 - 09/25/23	22	100	All ND - Last	0.001	0.00170

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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	E002	Barium, total	mg/L	12/03/15 - 09/25/23	22	0	CB around T-S line	-0.00761	0.254
G51D	UA	E002	Beryllium, total	mg/L	12/03/15 - 09/25/23	17	100	All ND - Last	0.001	0.00110
G51D	UA	E002	Boron, total	mg/L	12/03/15 - 09/25/23	23	0	CB around T-S line	0.534	0.0531
G51D	UA	E002	Cadmium, total	mg/L	12/03/15 - 09/25/23	17	100	All ND - Last	0.001	0.00100
G51D	UA	E002	Chloride, total	mg/L	12/03/15 - 09/25/23	23	0	CB around T-S line	2.5	32.0
G51D	UA	E002	Chromium, total	mg/L	12/03/15 - 09/25/23	22	73	CB around T-S line	0.00116	0.00390
G51D	UA	E002	Cobalt, total	mg/L	12/03/15 - 09/25/23	22	14	CB around T-S line	-0.0152	0.00150
G51D	UA	E002	Fluoride, total	mg/L	12/03/15 - 09/25/23	23	87	CI around median	0.1	0.250
G51D	UA	E002	Lead, total	mg/L	12/03/15 - 09/25/23	22	100	All ND - Last	0.001	0.00150
G51D	UA	E002	Lithium, total	mg/L	12/03/15 - 09/25/23	22	4	CB around T-S line	0.00579	0.003
G51D	UA	E002	Mercury, total	mg/L	12/03/15 - 09/25/23	17	100	All ND - Last	0.0002	0.0002
G51D	UA	E002	Molybdenum, total	mg/L	12/03/15 - 09/25/23	18	100	All ND - Last	0.0015	0.00150
G51D	UA	E002	pH (field)	SU	12/03/15 - 09/25/23	23	0	CB around T-S line	5.2/5.4	6.0/6.8
G51D	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 09/25/23	22	0	CI around mean	0.452	1.70
G51D	UA	E002	Selenium, total	mg/L	12/03/15 - 09/25/23	22	4	CB around T-S line	0.00454	0.00420
G51D	UA	E002	Sulfate, total	mg/L	12/03/15 - 09/25/23	23	0	CI around median	121	39.0
G51D	UA	E002	Thallium, total	mg/L	12/03/15 - 09/25/23	17	100	All ND - Last	0.002	0.00200
G51D	UA	E002	Total Dissolved Solids	mg/L	12/03/15 - 09/25/23	23	0	CB around linear reg	284	334
G52D	UA	E002	Antimony, total	mg/L	12/03/15 - 09/26/23	16	100	All ND - Last	0.001	0.001
G52D	UA	E002	Arsenic, total	mg/L	12/03/15 - 09/26/23	21	10	CB around linear reg	-0.000734	0.00170
G52D	UA	E002	Barium, total	mg/L	12/03/15 - 09/26/23	21	0	CB around linear reg	0.113	0.254
G52D	UA	E002	Beryllium, total	mg/L	12/03/15 - 09/26/23	16	100	All ND - Last	0.001	0.00110
G52D	UA	E002	Boron, total	mg/L	12/03/15 - 09/26/23	22	91	CI around median	0.025	0.0531
G52D	UA	E002	Cadmium, total	mg/L	12/03/15 - 09/26/23	16	100	All ND - Last	0.001	0.00100
G52D	UA	E002	Chloride, total	mg/L	12/03/15 - 09/26/23	22	0	CB around linear reg	6.76	32.0
G52D	UA	E002	Chromium, total	mg/L	12/03/15 - 09/26/23	21	100	All ND - Last	0.0015	0.00390
G52D	UA	E002	Cobalt, total	mg/L	12/03/15 - 09/26/23	21	0	CI around mean	0.00287	0.00150

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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	E002	Fluoride, total	mg/L	12/03/15 - 09/26/23	22	0	CI around median	0.24	0.250
G52D	UA	E002	Lead, total	mg/L	12/03/15 - 09/26/23	21	100	All ND - Last	0.001	0.00150
G52D	UA	E002	Lithium, total	mg/L	12/03/15 - 09/26/23	21	43	CI around geomean	0.0025	0.003
G52D	UA	E002	Mercury, total	mg/L	12/03/15 - 09/26/23	16	100	All ND - Last	0.0002	0.0002
G52D	UA	E002	Molybdenum, total	mg/L	12/03/15 - 09/26/23	17	76	CI around median	0.001	0.00150
G52D	UA	E002	pH (field)	SU	12/03/15 - 09/26/23	22	0	CI around mean	6.2/6.4	6.0/6.8
G52D	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 09/26/23	21	0	CI around mean	0.824	1.70
G52D	UA	E002	Selenium, total	mg/L	12/03/15 - 09/26/23	21	95	CI around median	0.001	0.00420
G52D	UA	E002	Sulfate, total	mg/L	12/03/15 - 09/26/23	22	0	CI around mean	77.9	39.0
G52D	UA	E002	Thallium, total	mg/L	12/03/15 - 09/26/23	16	100	All ND - Last	0.002	0.00200
G52D	UA	E002	Total Dissolved Solids	mg/L	12/03/15 - 09/26/23	22	0	CB around linear reg	278	334
G53D	UA	E002	Antimony, total	mg/L	12/03/15 - 09/27/23	17	100	All ND - Last	0.001	0.001
G53D	UA	E002	Arsenic, total	mg/L	12/03/15 - 09/27/23	22	100	All ND - Last	0.001	0.00170
G53D	UA	E002	Barium, total	mg/L	12/03/15 - 09/27/23	22	0	CB around linear reg	0.0177	0.254
G53D	UA	E002	Beryllium, total	mg/L	12/03/15 - 09/27/23	17	100	All ND - Last	0.001	0.00110
G53D	UA	E002	Boron, total	mg/L	12/03/15 - 09/27/23	23	0	CI around median	0.334	0.0531
G53D	UA	E002	Cadmium, total	mg/L	12/03/15 - 09/27/23	17	100	All ND - Last	0.001	0.00100
G53D	UA	E002	Chloride, total	mg/L	12/03/15 - 09/27/23	23	0	CI around median	17	32.0
G53D	UA	E002	Chromium, total	mg/L	12/03/15 - 09/27/23	22	86	CI around median	0.001	0.00390
G53D	UA	E002	Cobalt, total	mg/L	12/03/15 - 09/27/23	22	18	CI around median	0.0013	0.00150
G53D	UA	E002	Fluoride, total	mg/L	12/03/15 - 09/27/23	23	0	CI around mean	0.641	0.250
G53D	UA	E002	Lead, total	mg/L	12/03/15 - 09/27/23	22	100	All ND - Last	0.001	0.00150
G53D	UA	E002	Lithium, total	mg/L	12/03/15 - 09/27/23	22	54	CB around T-S line	0.00266	0.003
G53D	UA	E002	Mercury, total	mg/L	12/03/15 - 09/27/23	17	100	All ND - Last	0.0002	0.0002
G53D	UA	E002	Molybdenum, total	mg/L	12/03/15 - 09/27/23	18	89	CB around T-S line	0.001	0.00150
G53D	UA	E002	pH (field)	SU	12/03/15 - 09/27/23	23	0	CB around T-S line	6.3/6.5	6.0/6.8
G53D	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 09/27/23	22	0	CI around mean	0.351	1.70

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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	E002	Selenium, total	mg/L	12/03/15 - 09/27/23	22	100	All ND - Last	0.001	0.00420
G53D	UA	E002	Sulfate, total	mg/L	12/03/15 - 09/27/23	23	0	CB around T-S line	46.6	39.0
G53D	UA	E002	Thallium, total	mg/L	12/03/15 - 09/27/23	17	100	All ND - Last	0.002	0.00200
G53D	UA	E002	Total Dissolved Solids	mg/L	12/03/15 - 09/27/23	23	0	CB around T-S line	268	334
G54D	UA	E002	Antimony, total	mg/L	12/03/15 - 09/26/23	17	100	All ND - Last	0.001	0.001
G54D	UA	E002	Arsenic, total	mg/L	12/03/15 - 09/26/23	22	50	CB around T-S line	-0.000236	0.00170
G54D	UA	E002	Barium, total	mg/L	12/03/15 - 09/26/23	22	0	CB around T-S line	0.0612	0.254
G54D	UA	E002	Beryllium, total	mg/L	12/03/15 - 09/26/23	17	100	All ND - Last	0.001	0.00110
G54D	UA	E002	Boron, total	mg/L	12/03/15 - 09/26/23	23	0	CI around mean	0.464	0.0531
G54D	UA	E002	Cadmium, total	mg/L	12/03/15 - 09/26/23	17	100	All ND - Last	0.001	0.00100
G54D	UA	E002	Chloride, total	mg/L	12/03/15 - 09/26/23	23	4	CB around T-S line	13.6	32.0
G54D	UA	E002	Chromium, total	mg/L	12/03/15 - 09/26/23	22	68	CI around median	0.0015	0.00390
G54D	UA	E002	Cobalt, total	mg/L	12/03/15 - 09/26/23	22	0	CB around linear reg	0.00315	0.00150
G54D	UA	E002	Fluoride, total	mg/L	12/03/15 - 09/26/23	23	0	CB around linear reg	0.258	0.250
G54D	UA	E002	Lead, total	mg/L	12/03/15 - 09/26/23	22	100	All ND - Last	0.001	0.00150
G54D	UA	E002	Lithium, total	mg/L	12/03/15 - 09/26/23	22	18	CB around linear reg	0.00175	0.003
G54D	UA	E002	Mercury, total	mg/L	12/03/15 - 09/26/23	17	100	All ND - Last	0.0002	0.0002
G54D	UA	E002	Molybdenum, total	mg/L	12/03/15 - 09/26/23	18	94	CB around T-S line	0.001	0.00150
G54D	UA	E002	pH (field)	SU	12/03/15 - 09/26/23	23	0	CI around mean	6.6/6.8	6.0/6.8
G54D	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 09/26/23	22	0	CI around geomean	0.493	1.70
G54D	UA	E002	Selenium, total	mg/L	12/03/15 - 09/26/23	22	100	All ND - Last	0.001	0.00420
G54D	UA	E002	Sulfate, total	mg/L	12/03/15 - 09/26/23	23	0	CB around linear reg	175	39.0
G54D	UA	E002	Thallium, total	mg/L	12/03/15 - 09/26/23	17	100	All ND - Last	0.002	0.00200
G54D	UA	E002	Total Dissolved Solids	mg/L	12/03/15 - 09/26/23	23	0	CI around mean	491	334

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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