



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

July 28, 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. is submitting groundwater monitoring data for the Quarter 2, 2024 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).

A Corrective Measures Assessment (CMA) was initiated on November 20, 2023 and submitted to IEPA on April 18, 2024 in accordance with 35 I.A.C. § 845.660. The CMA addressed GWPS exceedances of boron at select monitoring wells. GWPS exceedances for subsequent events will be incorporated into the CMA on a case by case basis, as opposed to generating a new CMA.

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 and pH 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.

Sincerely,

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

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

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 2, 2024, East Ash Pond, Joppa Power Plant, Joppa, Illinois

35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 2, 2024
EAST ASH POND, JOPPA POWER PLANT, JOPPA, ILLINOIS

July 28, 2024

Samples were collected between April 22 and 23, 2024 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 May 29, 2024.

The monitoring well locations are included in **Figure 1. Attachment A**¹ summarizes the groundwater elevation data for the Quarter 2, 2024 sampling event. Monitoring location XSG01 had insufficient water to document a groundwater elevation. **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 2, 2024 sampling event.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan² provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 2, 2024 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.

A Corrective Measures Assessment (CMA) was initiated on November 20, 2023 and submitted to Illinois Environmental Protection Agency (IEPA) on April 18, 2024³ in accordance with 35 I.A.C. § 845.660. The CMA addressed boron GWPS exceedances at monitoring wells G06, G07, G08, G09, and G10. Boron GWPS exceedances will also be addressed in accordance with 35 I.A.C. § 845.660. GWPS exceedances for subsequent events will be incorporated into the CMA on a case-by-case basis, as opposed to generating a new CMA.

As allowed in 35 I.A.C. § 845.650(e), an Alternative Source Demonstration⁴ (ASD) was submitted on October 21, 2023 for exceedances of the cobalt and pH GWPS detected during the Quarter 2, 2023 sampling

¹ Staff gage SG02 was decommissioned. A new staff gage (SG03) was installed in January 2023.

² Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan. East Ash Pond. Joppa Power Plant. Joppa, Illinois. October 25, 2021.*

³ Ramboll, 2024. *35 I.A.C § 845 Corrective Measures Assessment, Joppa Power Plant, East Ash Pond, IEPA ID: W1270100004-02.* April 18, 2024.

⁴ Ramboll, 2023. *35 I.A.C. § 845.650(E): Alternative Source Demonstration, East Ash Pond, Joppa, Illinois, IEPA ID: W1270100004-02.* October 21, 2023.

event. The IEPA provided a written response on November 16, 2023⁵ that did not concur with the ASD. As allowed in 35 I.A.C. § 845.650(e), an ASD will be evaluated for new detected exceedances of the GWPS and, if successfully completed, the ASD will be submitted to IEPA within 60 days of this transmittal.

TABLES

Table 1	Field Parameters and Analytical Results – Quarter 2, 2024
Table 2	Comparison of Statistical Results to GWPS - Quarter 2, 2024

FIGURES

Figure 1	Monitoring Well Location Map
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ATTACHMENTS

Attachment A	Groundwater Elevation Data - Quarter 2, 2024
Attachment B	Laboratory Reports and Field Data Sheets - Quarter 2, 2024
Attachment C	Comparison of Statistical Results to Background - Quarter 2, 2024

⁵ 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.

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G01D	Background	E005	04/22/2024	Antimony, total	0.0006 U	mg/L
G01D	Background	E005	04/22/2024	Arsenic, total	0.0008 J	mg/L
G01D	Background	E005	04/22/2024	Barium, total	0.218	mg/L
G01D	Background	E005	04/22/2024	Beryllium, total	0.0002 U	mg/L
G01D	Background	E005	04/22/2024	Boron, total	0.0092 U	mg/L
G01D	Background	E005	04/22/2024	Cadmium, total	0.0002 U	mg/L
G01D	Background	E005	04/22/2024	Calcium, total	40.4	mg/L
G01D	Background	E005	04/22/2024	Chloride, total	16.0	mg/L
G01D	Background	E005	04/22/2024	Chromium, total	0.00460	mg/L
G01D	Background	E005	04/22/2024	Cobalt, total	0.00150	mg/L
G01D	Background	E005	04/22/2024	Dissolved Oxygen	1.75	mg/L
G01D	Background	E005	04/22/2024	Fluoride, total	0.200	mg/L
G01D	Background	E005	04/22/2024	Lead, total	0.00110	mg/L
G01D	Background	E005	04/22/2024	Lithium, total	0.0017 J	mg/L
G01D	Background	E005	04/22/2024	Mercury, total	0.000350	mg/L
G01D	Background	E005	04/22/2024	Molybdenum, total	0.0007 J	mg/L
G01D	Background	E005	04/22/2024	Oxidation Reduction Potential	131	mV
G01D	Background	E005	04/22/2024	pH (field)	6.3	SU
G01D	Background	E005	04/22/2024	Radium 226 + Radium 228, total	2.04	pCi/L
G01D	Background	E005	04/22/2024	Selenium, total	0.00130	mg/L
G01D	Background	E005	04/22/2024	Specific Conductance @ 25C (field)	568	micromhos/cm
G01D	Background	E005	04/22/2024	Sulfate, total	42.0	mg/L
G01D	Background	E005	04/22/2024	Temperature	17.3	degrees C
G01D	Background	E005	04/22/2024	Thallium, total	0.001 U	mg/L
G01D	Background	E005	04/22/2024	Total Dissolved Solids	310	mg/L
G01D	Background	E005	04/22/2024	Turbidity, field	220	NTU
G02D	Background	E005	04/22/2024	Antimony, total	0.0006 U	mg/L
G02D	Background	E005	04/22/2024	Arsenic, total	0.0004 U	mg/L
G02D	Background	E005	04/22/2024	Barium, total	0.180	mg/L
G02D	Background	E005	04/22/2024	Beryllium, total	0.0002 U	mg/L
G02D	Background	E005	04/22/2024	Boron, total	0.0092 U	mg/L
G02D	Background	E005	04/22/2024	Cadmium, total	0.0002 U	mg/L
G02D	Background	E005	04/22/2024	Calcium, total	38.9	mg/L
G02D	Background	E005	04/22/2024	Chloride, total	19.0	mg/L
G02D	Background	E005	04/22/2024	Chromium, total	0.0012 J	mg/L
G02D	Background	E005	04/22/2024	Cobalt, total	0.0002 J	mg/L
G02D	Background	E005	04/22/2024	Dissolved Oxygen	2.91	mg/L
G02D	Background	E005	04/22/2024	Fluoride, total	0.220	mg/L
G02D	Background	E005	04/22/2024	Lead, total	0.0006 U	mg/L
G02D	Background	E005	04/22/2024	Lithium, total	0.0015 U	mg/L
G02D	Background	E005	04/22/2024	Mercury, total	0.000270	mg/L
G02D	Background	E005	04/22/2024	Molybdenum, total	0.0006 U	mg/L
G02D	Background	E005	04/22/2024	Oxidation Reduction Potential	162	mV
G02D	Background	E005	04/22/2024	pH (field)	6.2	SU
G02D	Background	E005	04/22/2024	Radium 226 + Radium 228, total	0.813	pCi/L
G02D	Background	E005	04/22/2024	Selenium, total	0.00140	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
G02D	Background	E005	04/22/2024	Specific Conductance @ 25C (field)	406	micromhos/cm
G02D	Background	E005	04/22/2024	Sulfate, total	13.0	mg/L
G02D	Background	E005	04/22/2024	Temperature	14.8	degrees C
G02D	Background	E005	04/22/2024	Thallium, total	0.001 U	mg/L
G02D	Background	E005	04/22/2024	Total Dissolved Solids	218	mg/L
G02D	Background	E005	04/22/2024	Turbidity, field	1 U	NTU
G03	Compliance	E005	04/22/2024	Antimony, total	0.0006 U	mg/L
G03	Compliance	E005	04/22/2024	Arsenic, total	0.00160	mg/L
G03	Compliance	E005	04/22/2024	Barium, total	0.0647	mg/L
G03	Compliance	E005	04/22/2024	Beryllium, total	0.0003 J	mg/L
G03	Compliance	E005	04/22/2024	Boron, total	0.280	mg/L
G03	Compliance	E005	04/22/2024	Cadmium, total	0.0002 U	mg/L
G03	Compliance	E005	04/22/2024	Calcium, total	45.2	mg/L
G03	Compliance	E005	04/22/2024	Chloride, total	20.0	mg/L
G03	Compliance	E005	04/22/2024	Chromium, total	0.00850	mg/L
G03	Compliance	E005	04/22/2024	Cobalt, total	0.00230	mg/L
G03	Compliance	E005	04/22/2024	Dissolved Oxygen	3.46	mg/L
G03	Compliance	E005	04/22/2024	Fluoride, total	0.210	mg/L
G03	Compliance	E005	04/22/2024	Lead, total	0.00170	mg/L
G03	Compliance	E005	04/22/2024	Lithium, total	0.0023 J	mg/L
G03	Compliance	E005	04/22/2024	Mercury, total	0.000440	mg/L
G03	Compliance	E005	04/22/2024	Molybdenum, total	0.0006 U	mg/L
G03	Compliance	E005	04/22/2024	Oxidation Reduction Potential	170	mV
G03	Compliance	E005	04/22/2024	pH (field)	6.2	SU
G03	Compliance	E005	04/22/2024	Radium 226 + Radium 228, total	1.66	pCi/L
G03	Compliance	E005	04/22/2024	Selenium, total	0.0006 U	mg/L
G03	Compliance	E005	04/22/2024	Specific Conductance @ 25C (field)	505	micromhos/cm
G03	Compliance	E005	04/22/2024	Sulfate, total	73.0	mg/L
G03	Compliance	E005	04/22/2024	Temperature	19.9	degrees C
G03	Compliance	E005	04/22/2024	Thallium, total	0.0016 J	mg/L
G03	Compliance	E005	04/22/2024	Total Dissolved Solids	245	mg/L
G03	Compliance	E005	04/22/2024	Turbidity, field	86.0	NTU
G05	Compliance	E005	04/23/2024	Antimony, total	0.0008 J	mg/L
G05	Compliance	E005	04/23/2024	Arsenic, total	0.0009 J	mg/L
G05	Compliance	E005	04/23/2024	Barium, total	0.208	mg/L
G05	Compliance	E005	04/23/2024	Beryllium, total	0.0002 U	mg/L
G05	Compliance	E005	04/23/2024	Boron, total	0.0503 J+	mg/L
G05	Compliance	E005	04/23/2024	Cadmium, total	0.0002 U	mg/L
G05	Compliance	E005	04/23/2024	Calcium, total	53.8	mg/L
G05	Compliance	E005	04/23/2024	Chloride, total	18.0	mg/L
G05	Compliance	E005	04/23/2024	Chromium, total	0.00290	mg/L
G05	Compliance	E005	04/23/2024	Cobalt, total	0.00250	mg/L
G05	Compliance	E005	04/23/2024	Dissolved Oxygen	1.70	mg/L
G05	Compliance	E005	04/23/2024	Fluoride, total	0.380	mg/L
G05	Compliance	E005	04/23/2024	Lead, total	0.0007 J	mg/L
G05	Compliance	E005	04/23/2024	Lithium, total	0.0029 J	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G05	Compliance	E005	04/23/2024	Mercury, total	0.000320	mg/L
G05	Compliance	E005	04/23/2024	Molybdenum, total	0.00400	mg/L
G05	Compliance	E005	04/23/2024	Oxidation Reduction Potential	26.0	mV
G05	Compliance	E005	04/23/2024	pH (field)	6.4	SU
G05	Compliance	E005	04/23/2024	Radium 226 + Radium 228, total	1.96	pCi/L
G05	Compliance	E005	04/23/2024	Selenium, total	0.00170	mg/L
G05	Compliance	E005	04/23/2024	Specific Conductance @ 25C (field)	526	micromhos/cm
G05	Compliance	E005	04/23/2024	Sulfate, total	90.0	mg/L
G05	Compliance	E005	04/23/2024	Temperature	16.9	degrees C
G05	Compliance	E005	04/23/2024	Thallium, total	0.001 U	mg/L
G05	Compliance	E005	04/23/2024	Total Dissolved Solids	336	mg/L
G05	Compliance	E005	04/23/2024	Turbidity, field	39.0	NTU
G06	Compliance	E005	04/23/2024	Antimony, total	0.0006 U	mg/L
G06	Compliance	E005	04/23/2024	Arsenic, total	0.00200	mg/L
G06	Compliance	E005	04/23/2024	Barium, total	0.0453	mg/L
G06	Compliance	E005	04/23/2024	Beryllium, total	0.0003 J	mg/L
G06	Compliance	E005	04/23/2024	Boron, total	3.17	mg/L
G06	Compliance	E005	04/23/2024	Cadmium, total	0.0002 U	mg/L
G06	Compliance	E005	04/23/2024	Calcium, total	86.0	mg/L
G06	Compliance	E005	04/23/2024	Chloride, total	19.0	mg/L
G06	Compliance	E005	04/23/2024	Chromium, total	0.00840	mg/L
G06	Compliance	E005	04/23/2024	Cobalt, total	0.00210	mg/L
G06	Compliance	E005	04/23/2024	Dissolved Oxygen	0.320	mg/L
G06	Compliance	E005	04/23/2024	Fluoride, total	0.260	mg/L
G06	Compliance	E005	04/23/2024	Lead, total	0.00240	mg/L
G06	Compliance	E005	04/23/2024	Lithium, total	0.00620	mg/L
G06	Compliance	E005	04/23/2024	Mercury, total	0.000310	mg/L
G06	Compliance	E005	04/23/2024	Molybdenum, total	0.0006 U	mg/L
G06	Compliance	E005	04/23/2024	Oxidation Reduction Potential	84.0	mV
G06	Compliance	E005	04/23/2024	pH (field)	6.6	SU
G06	Compliance	E005	04/23/2024	Radium 226 + Radium 228, total	1.72	pCi/L
G06	Compliance	E005	04/23/2024	Selenium, total	0.0006 U	mg/L
G06	Compliance	E005	04/23/2024	Specific Conductance @ 25C (field)	693	micromhos/cm
G06	Compliance	E005	04/23/2024	Sulfate, total	185	mg/L
G06	Compliance	E005	04/23/2024	Temperature	16.1	degrees C
G06	Compliance	E005	04/23/2024	Thallium, total	0.001 U	mg/L
G06	Compliance	E005	04/23/2024	Total Dissolved Solids	486	mg/L
G06	Compliance	E005	04/23/2024	Turbidity, field	77.0	NTU
G07	Compliance	E005	04/23/2024	Antimony, total	0.0006 U	mg/L
G07	Compliance	E005	04/23/2024	Arsenic, total	0.00690	mg/L
G07	Compliance	E005	04/23/2024	Barium, total	0.265	mg/L
G07	Compliance	E005	04/23/2024	Beryllium, total	0.00150	mg/L
G07	Compliance	E005	04/23/2024	Boron, total	4.12	mg/L
G07	Compliance	E005	04/23/2024	Cadmium, total	0.0002 U	mg/L
G07	Compliance	E005	04/23/2024	Calcium, total	94.5	mg/L
G07	Compliance	E005	04/23/2024	Chloride, total	20.0	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
G07	Compliance	E005	04/23/2024	Chromium, total	0.0514	mg/L
G07	Compliance	E005	04/23/2024	Cobalt, total	0.00660	mg/L
G07	Compliance	E005	04/23/2024	Dissolved Oxygen	1.07	mg/L
G07	Compliance	E005	04/23/2024	Fluoride, total	0.420	mg/L
G07	Compliance	E005	04/23/2024	Lead, total	0.0106	mg/L
G07	Compliance	E005	04/23/2024	Lithium, total	0.0102	mg/L
G07	Compliance	E005	04/23/2024	Mercury, total	0.000210	mg/L
G07	Compliance	E005	04/23/2024	Molybdenum, total	0.00210	mg/L
G07	Compliance	E005	04/23/2024	Oxidation Reduction Potential	138	mV
G07	Compliance	E005	04/23/2024	pH (field)	6.4	SU
G07	Compliance	E005	04/23/2024	Radium 226 + Radium 228, total	2.66	pCi/L
G07	Compliance	E005	04/23/2024	Selenium, total	0.0006 U	mg/L
G07	Compliance	E005	04/23/2024	Specific Conductance @ 25C (field)	895	micromhos/cm
G07	Compliance	E005	04/23/2024	Sulfate, total	262	mg/L
G07	Compliance	E005	04/23/2024	Temperature	17.3	degrees C
G07	Compliance	E005	04/23/2024	Thallium, total	0.001 U	mg/L
G07	Compliance	E005	04/23/2024	Total Dissolved Solids	575	mg/L
G07	Compliance	E005	04/23/2024	Turbidity, field	88.0	NTU
G08	Compliance	E005	04/23/2024	Antimony, total	0.0006 U	mg/L
G08	Compliance	E005	04/23/2024	Arsenic, total	0.00440	mg/L
G08	Compliance	E005	04/23/2024	Barium, total	0.0524	mg/L
G08	Compliance	E005	04/23/2024	Beryllium, total	0.0002 U	mg/L
G08	Compliance	E005	04/23/2024	Boron, total	4.45	mg/L
G08	Compliance	E005	04/23/2024	Cadmium, total	0.0002 U	mg/L
G08	Compliance	E005	04/23/2024	Calcium, total	121	mg/L
G08	Compliance	E005	04/23/2024	Chloride, total	12.0	mg/L
G08	Compliance	E005	04/23/2024	Chromium, total	0.00360	mg/L
G08	Compliance	E005	04/23/2024	Cobalt, total	0.00370	mg/L
G08	Compliance	E005	04/23/2024	Dissolved Oxygen	1.34	mg/L
G08	Compliance	E005	04/23/2024	Fluoride, total	0.280	mg/L
G08	Compliance	E005	04/23/2024	Lead, total	0.0007 J	mg/L
G08	Compliance	E005	04/23/2024	Lithium, total	0.00310	mg/L
G08	Compliance	E005	04/23/2024	Mercury, total	0.000210	mg/L
G08	Compliance	E005	04/23/2024	Molybdenum, total	0.0014 J	mg/L
G08	Compliance	E005	04/23/2024	Oxidation Reduction Potential	-8.00	mV
G08	Compliance	E005	04/23/2024	pH (field)	6.9	SU
G08	Compliance	E005	04/23/2024	Radium 226 + Radium 228, total	1.66	pCi/L
G08	Compliance	E005	04/23/2024	Selenium, total	0.0006 U	mg/L
G08	Compliance	E005	04/23/2024	Specific Conductance @ 25C (field)	886	micromhos/cm
G08	Compliance	E005	04/23/2024	Sulfate, total	266	mg/L
G08	Compliance	E005	04/23/2024	Temperature	17.4	degrees C
G08	Compliance	E005	04/23/2024	Thallium, total	0.001 U	mg/L
G08	Compliance	E005	04/23/2024	Total Dissolved Solids	592	mg/L
G08	Compliance	E005	04/23/2024	Turbidity, field	27.0	NTU
G09	Compliance	E005	04/23/2024	Antimony, total	0.0008 J	mg/L
G09	Compliance	E005	04/23/2024	Arsenic, total	0.00610	mg/L

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EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G09	Compliance	E005	04/23/2024	Barium, total	0.0642	mg/L
G09	Compliance	E005	04/23/2024	Beryllium, total	0.00130	mg/L
G09	Compliance	E005	04/23/2024	Boron, total	3.52	mg/L
G09	Compliance	E005	04/23/2024	Cadmium, total	0.0002 U	mg/L
G09	Compliance	E005	04/23/2024	Calcium, total	64.6	mg/L
G09	Compliance	E005	04/23/2024	Chloride, total	15.0	mg/L
G09	Compliance	E005	04/23/2024	Chromium, total	0.0179	mg/L
G09	Compliance	E005	04/23/2024	Cobalt, total	0.00510	mg/L
G09	Compliance	E005	04/23/2024	Dissolved Oxygen	1.16	mg/L
G09	Compliance	E005	04/23/2024	Fluoride, total	0.270	mg/L
G09	Compliance	E005	04/23/2024	Lead, total	0.00390	mg/L
G09	Compliance	E005	04/23/2024	Lithium, total	0.00460	mg/L
G09	Compliance	E005	04/23/2024	Mercury, total	0.000230	mg/L
G09	Compliance	E005	04/23/2024	Molybdenum, total	0.0009 J	mg/L
G09	Compliance	E005	04/23/2024	Oxidation Reduction Potential	-4.00	mV
G09	Compliance	E005	04/23/2024	pH (field)	6.1	SU
G09	Compliance	E005	04/23/2024	Radium 226 + Radium 228, total	0.948	pCi/L
G09	Compliance	E005	04/23/2024	Selenium, total	0.0006 U	mg/L
G09	Compliance	E005	04/23/2024	Specific Conductance @ 25C (field)	747	micromhos/cm
G09	Compliance	E005	04/23/2024	Sulfate, total	234	mg/L
G09	Compliance	E005	04/23/2024	Temperature	17.0	degrees C
G09	Compliance	E005	04/23/2024	Thallium, total	0.001 U	mg/L
G09	Compliance	E005	04/23/2024	Total Dissolved Solids	530	mg/L
G09	Compliance	E005	04/23/2024	Turbidity, field	74.0	NTU
G10	Compliance	E005	04/22/2024	Antimony, total	0.0006 U	mg/L
G10	Compliance	E005	04/22/2024	Arsenic, total	0.0120	mg/L
G10	Compliance	E005	04/22/2024	Barium, total	0.0515	mg/L
G10	Compliance	E005	04/22/2024	Beryllium, total	0.0005 J	mg/L
G10	Compliance	E005	04/22/2024	Boron, total	2.31	mg/L
G10	Compliance	E005	04/22/2024	Cadmium, total	0.0002 U	mg/L
G10	Compliance	E005	04/22/2024	Calcium, total	124	mg/L
G10	Compliance	E005	04/22/2024	Chloride, total	19.0	mg/L
G10	Compliance	E005	04/22/2024	Chromium, total	0.00700	mg/L
G10	Compliance	E005	04/22/2024	Cobalt, total	0.00350	mg/L
G10	Compliance	E005	04/22/2024	Dissolved Oxygen	0.310	mg/L
G10	Compliance	E005	04/22/2024	Fluoride, total	0.490	mg/L
G10	Compliance	E005	04/22/2024	Lead, total	0.00130	mg/L
G10	Compliance	E005	04/22/2024	Lithium, total	0.00950	mg/L
G10	Compliance	E005	04/22/2024	Mercury, total	0.000280	mg/L
G10	Compliance	E005	04/22/2024	Molybdenum, total	0.00220	mg/L
G10	Compliance	E005	04/22/2024	Oxidation Reduction Potential	35.0	mV
G10	Compliance	E005	04/22/2024	pH (field)	6.6	SU
G10	Compliance	E005	04/22/2024	Radium 226 + Radium 228, total	1.45	pCi/L
G10	Compliance	E005	04/22/2024	Selenium, total	0.0006 U	mg/L
G10	Compliance	E005	04/22/2024	Specific Conductance @ 25C (field)	1,210	micromhos/cm
G10	Compliance	E005	04/22/2024	Sulfate, total	339	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G10	Compliance	E005	04/22/2024	Temperature	17.1	degrees C
G10	Compliance	E005	04/22/2024	Thallium, total	0.001 U	mg/L
G10	Compliance	E005	04/22/2024	Total Dissolved Solids	800	mg/L
G10	Compliance	E005	04/22/2024	Turbidity, field	70.0	NTU
G11	Compliance	E005	04/22/2024	Antimony, total	0.0006 U	mg/L
G11	Compliance	E005	04/22/2024	Arsenic, total	0.0004 U	mg/L
G11	Compliance	E005	04/22/2024	Barium, total	0.0234	mg/L
G11	Compliance	E005	04/22/2024	Beryllium, total	0.0002 U	mg/L
G11	Compliance	E005	04/22/2024	Boron, total	0.309	mg/L
G11	Compliance	E005	04/22/2024	Cadmium, total	0.0002 U	mg/L
G11	Compliance	E005	04/22/2024	Calcium, total	59.1	mg/L
G11	Compliance	E005	04/22/2024	Chloride, total	20.0	mg/L
G11	Compliance	E005	04/22/2024	Chromium, total	0.001 J	mg/L
G11	Compliance	E005	04/22/2024	Cobalt, total	0.0009 J	mg/L
G11	Compliance	E005	04/22/2024	Dissolved Oxygen	1.65	mg/L
G11	Compliance	E005	04/22/2024	Fluoride, total	0.200	mg/L
G11	Compliance	E005	04/22/2024	Lead, total	0.0006 U	mg/L
G11	Compliance	E005	04/22/2024	Lithium, total	0.00390	mg/L
G11	Compliance	E005	04/22/2024	Mercury, total	0.00017 J	mg/L
G11	Compliance	E005	04/22/2024	Molybdenum, total	0.0009 J	mg/L
G11	Compliance	E005	04/22/2024	Oxidation Reduction Potential	112	mV
G11	Compliance	E005	04/22/2024	pH (field)	6.2	SU
G11	Compliance	E005	04/22/2024	Radium 226 + Radium 228, total	0.793	pCi/L
G11	Compliance	E005	04/22/2024	Selenium, total	0.00130	mg/L
G11	Compliance	E005	04/22/2024	Specific Conductance @ 25C (field)	632	micromhos/cm
G11	Compliance	E005	04/22/2024	Sulfate, total	158	mg/L
G11	Compliance	E005	04/22/2024	Temperature	17.1	degrees C
G11	Compliance	E005	04/22/2024	Thallium, total	0.001 U	mg/L
G11	Compliance	E005	04/22/2024	Total Dissolved Solids	358	mg/L
G11	Compliance	E005	04/22/2024	Turbidity, field	20.0	NTU
G51D	Compliance	E005	04/22/2024	Antimony, total	0.0006 U	mg/L
G51D	Compliance	E005	04/22/2024	Arsenic, total	0.0004 U	mg/L
G51D	Compliance	E005	04/22/2024	Barium, total	0.0344	mg/L
G51D	Compliance	E005	04/22/2024	Beryllium, total	0.0002 U	mg/L
G51D	Compliance	E005	04/22/2024	Boron, total	0.784	mg/L
G51D	Compliance	E005	04/22/2024	Cadmium, total	0.0002 U	mg/L
G51D	Compliance	E005	04/22/2024	Calcium, total	28.8	mg/L
G51D	Compliance	E005	04/22/2024	Chloride, total	4.00 J	mg/L
G51D	Compliance	E005	04/22/2024	Chromium, total	0.00180	mg/L
G51D	Compliance	E005	04/22/2024	Cobalt, total	0.0008 J	mg/L
G51D	Compliance	E005	04/22/2024	Dissolved Oxygen	3.37	mg/L
G51D	Compliance	E005	04/22/2024	Fluoride, total	0.08 J	mg/L
G51D	Compliance	E005	04/22/2024	Lead, total	0.0006 U	mg/L
G51D	Compliance	E005	04/22/2024	Lithium, total	0.00650	mg/L
G51D	Compliance	E005	04/22/2024	Mercury, total	0.00012 U	mg/L
G51D	Compliance	E005	04/22/2024	Molybdenum, total	0.0006 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G51D	Compliance	E005	04/22/2024	Oxidation Reduction Potential	224	mV
G51D	Compliance	E005	04/22/2024	pH (field)	5.4	SU
G51D	Compliance	E005	04/22/2024	Radium 226 + Radium 228, total	1.35	pCi/L
G51D	Compliance	E005	04/22/2024	Selenium, total	0.00540	mg/L
G51D	Compliance	E005	04/22/2024	Specific Conductance @ 25C (field)	403	micromhos/cm
G51D	Compliance	E005	04/22/2024	Sulfate, total	116	mg/L
G51D	Compliance	E005	04/22/2024	Temperature	17.1	degrees C
G51D	Compliance	E005	04/22/2024	Thallium, total	0.001 U	mg/L
G51D	Compliance	E005	04/22/2024	Total Dissolved Solids	288	mg/L
G51D	Compliance	E005	04/22/2024	Turbidity, field	39.0	NTU
G52D	Compliance	E005	04/23/2024	Antimony, total	0.0006 U	mg/L
G52D	Compliance	E005	04/23/2024	Arsenic, total	0.00120	mg/L
G52D	Compliance	E005	04/23/2024	Barium, total	0.259	mg/L
G52D	Compliance	E005	04/23/2024	Beryllium, total	0.0002 U	mg/L
G52D	Compliance	E005	04/23/2024	Boron, total	0.025 UJ	mg/L
G52D	Compliance	E005	04/23/2024	Cadmium, total	0.0002 U	mg/L
G52D	Compliance	E005	04/23/2024	Calcium, total	45.5	mg/L
G52D	Compliance	E005	04/23/2024	Chloride, total	11.0	mg/L
G52D	Compliance	E005	04/23/2024	Chromium, total	0.0011 J	mg/L
G52D	Compliance	E005	04/23/2024	Cobalt, total	0.00350	mg/L
G52D	Compliance	E005	04/23/2024	Dissolved Oxygen	0.500	mg/L
G52D	Compliance	E005	04/23/2024	Fluoride, total	0.270	mg/L
G52D	Compliance	E005	04/23/2024	Lead, total	0.0006 U	mg/L
G52D	Compliance	E005	04/23/2024	Lithium, total	0.0026 J	mg/L
G52D	Compliance	E005	04/23/2024	Mercury, total	0.000200 J	mg/L
G52D	Compliance	E005	04/23/2024	Molybdenum, total	0.0007 J	mg/L
G52D	Compliance	E005	04/23/2024	Oxidation Reduction Potential	-110	mV
G52D	Compliance	E005	04/23/2024	pH (field)	6.4	SU
G52D	Compliance	E005	04/23/2024	Radium 226 + Radium 228, total	1.17	pCi/L
G52D	Compliance	E005	04/23/2024	Selenium, total	0.0006 U	mg/L
G52D	Compliance	E005	04/23/2024	Specific Conductance @ 25C (field)	400	micromhos/cm
G52D	Compliance	E005	04/23/2024	Sulfate, total	40.0	mg/L
G52D	Compliance	E005	04/23/2024	Temperature	15.2	degrees C
G52D	Compliance	E005	04/23/2024	Thallium, total	0.001 U	mg/L
G52D	Compliance	E005	04/23/2024	Total Dissolved Solids	280	mg/L
G52D	Compliance	E005	04/23/2024	Turbidity, field	2.70	NTU
G53D	Compliance	E005	04/23/2024	Antimony, total	0.0008 J	mg/L
G53D	Compliance	E005	04/23/2024	Arsenic, total	0.0004 J	mg/L
G53D	Compliance	E005	04/23/2024	Barium, total	0.103	mg/L
G53D	Compliance	E005	04/23/2024	Beryllium, total	0.0002 U	mg/L
G53D	Compliance	E005	04/23/2024	Boron, total	0.377	mg/L
G53D	Compliance	E005	04/23/2024	Cadmium, total	0.0002 U	mg/L
G53D	Compliance	E005	04/23/2024	Calcium, total	38.5	mg/L
G53D	Compliance	E005	04/23/2024	Chloride, total	16.0	mg/L
G53D	Compliance	E005	04/23/2024	Chromium, total	0.00290	mg/L
G53D	Compliance	E005	04/23/2024	Cobalt, total	0.00190	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
G53D	Compliance	E005	04/23/2024	Dissolved Oxygen	0.160	mg/L
G53D	Compliance	E005	04/23/2024	Fluoride, total	0.690	mg/L
G53D	Compliance	E005	04/23/2024	Lead, total	0.0009 J	mg/L
G53D	Compliance	E005	04/23/2024	Lithium, total	0.0022 J	mg/L
G53D	Compliance	E005	04/23/2024	Mercury, total	0.000210	mg/L
G53D	Compliance	E005	04/23/2024	Molybdenum, total	0.0006 U	mg/L
G53D	Compliance	E005	04/23/2024	Oxidation Reduction Potential	26.0	mV
G53D	Compliance	E005	04/23/2024	pH (field)	6.4	SU
G53D	Compliance	E005	04/23/2024	Radium 226 + Radium 228, total	0.318	pCi/L
G53D	Compliance	E005	04/23/2024	Selenium, total	0.0006 U	mg/L
G53D	Compliance	E005	04/23/2024	Specific Conductance @ 25C (field)	470	micromhos/cm
G53D	Compliance	E005	04/23/2024	Sulfate, total	72.0	mg/L
G53D	Compliance	E005	04/23/2024	Temperature	16.5	degrees C
G53D	Compliance	E005	04/23/2024	Thallium, total	0.001 U	mg/L
G53D	Compliance	E005	04/23/2024	Total Dissolved Solids	316	mg/L
G53D	Compliance	E005	04/23/2024	Turbidity, field	37.0	NTU
G54D	Compliance	E005	04/22/2024	Antimony, total	0.0006 U	mg/L
G54D	Compliance	E005	04/22/2024	Arsenic, total	0.0005 J	mg/L
G54D	Compliance	E005	04/22/2024	Barium, total	0.0620	mg/L
G54D	Compliance	E005	04/22/2024	Beryllium, total	0.0002 U	mg/L
G54D	Compliance	E005	04/22/2024	Boron, total	0.993	mg/L
G54D	Compliance	E005	04/22/2024	Cadmium, total	0.0002 U	mg/L
G54D	Compliance	E005	04/22/2024	Calcium, total	95.9	mg/L
G54D	Compliance	E005	04/22/2024	Chloride, total	20.0	mg/L
G54D	Compliance	E005	04/22/2024	Chromium, total	0.0008 J	mg/L
G54D	Compliance	E005	04/22/2024	Cobalt, total	0.00870	mg/L
G54D	Compliance	E005	04/22/2024	Dissolved Oxygen	0.130	mg/L
G54D	Compliance	E005	04/22/2024	Fluoride, total	0.290	mg/L
G54D	Compliance	E005	04/22/2024	Lead, total	0.0006 U	mg/L
G54D	Compliance	E005	04/22/2024	Lithium, total	0.00300 J	mg/L
G54D	Compliance	E005	04/22/2024	Mercury, total	0.000220	mg/L
G54D	Compliance	E005	04/22/2024	Molybdenum, total	0.0006 U	mg/L
G54D	Compliance	E005	04/22/2024	Oxidation Reduction Potential	-5.00	mV
G54D	Compliance	E005	04/22/2024	pH (field)	6.6	SU
G54D	Compliance	E005	04/22/2024	Radium 226 + Radium 228, total	0.427	pCi/L
G54D	Compliance	E005	04/22/2024	Selenium, total	0.0006 U	mg/L
G54D	Compliance	E005	04/22/2024	Specific Conductance @ 25C (field)	835	micromhos/cm
G54D	Compliance	E005	04/22/2024	Sulfate, total	199	mg/L
G54D	Compliance	E005	04/22/2024	Temperature	16.6	degrees C
G54D	Compliance	E005	04/22/2024	Thallium, total	0.001 U	mg/L
G54D	Compliance	E005	04/22/2024	Total Dissolved Solids	492	mg/L
G54D	Compliance	E005	04/22/2024	Turbidity, field	10.0	NTU

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

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

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
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	E005	Antimony, total	mg/L	03/05/21 - 04/22/24	15	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G03	UA	E005	Arsenic, total	mg/L	03/05/21 - 04/22/24	15	40	CI around geomean	0.00113	0.010	Standard	No Exceedance
G03	UA	E005	Barium, total	mg/L	03/05/21 - 04/22/24	15	0	CI around mean	0.0611	2.0	Standard	No Exceedance
G03	UA	E005	Beryllium, total	mg/L	03/05/21 - 04/22/24	15	93	CI around median	0.001	0.004	Standard	No Exceedance
G03	UA	E005	Boron, total	mg/L	03/05/21 - 04/22/24	15	0	CI around geomean	0.241	2	Standard	No Exceedance
G03	UA	E005	Cadmium, total	mg/L	03/05/21 - 04/22/24	15	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G03	UA	E005	Chloride, total	mg/L	03/05/21 - 04/22/24	15	0	CI around mean	20.5	200	Standard	No Exceedance
G03	UA	E005	Chromium, total	mg/L	03/05/21 - 04/22/24	15	7	CI around mean	0.00392	0.1	Standard	No Exceedance
G03	UA	E005	Cobalt, total	mg/L	03/05/21 - 04/22/24	15	27	CI around geomean	0.00151	0.006	Standard	No Exceedance
G03	UA	E005	Fluoride, total	mg/L	03/05/21 - 04/22/24	15	0	CI around mean	0.193	4.0	Standard	No Exceedance
G03	UA	E005	Lead, total	mg/L	03/05/21 - 04/22/24	15	33	CI around geomean	0.00122	0.0075	Standard	No Exceedance
G03	UA	E005	Lithium, total	mg/L	03/05/21 - 04/22/24	15	73	CI around median	0.003	0.04	Standard	No Exceedance
G03	UA	E005	Mercury, total	mg/L	03/05/21 - 04/22/24	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
G03	UA	E005	Molybdenum, total	mg/L	03/05/21 - 04/22/24	15	87	CI around median	0.0015	0.1	Standard	No Exceedance
G03	UA	E005	pH (field)	SU	03/05/21 - 04/22/24	15	0	CI around mean	6.3/6.4	6.0/9.0	Background/Standard	No Exceedance
G03	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/05/21 - 04/22/24	15	0	CI around mean	0.446	5	Standard	No Exceedance
G03	UA	E005	Selenium, total	mg/L	03/05/21 - 04/22/24	15	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G03	UA	E005	Sulfate, total	mg/L	03/05/21 - 04/22/24	15	0	CI around geomean	70.1	400	Standard	No Exceedance
G03	UA	E005	Thallium, total	mg/L	03/05/21 - 04/22/24	15	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G03	UA	E005	Total Dissolved Solids	mg/L	03/05/21 - 04/22/24	15	0	CI around geomean	277	1,200	Standard	No Exceedance
G05	UA	E005	Antimony, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G05	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/23/24	15	87	CI around median	0.001	0.010	Standard	No Exceedance
G05	UA	E005	Barium, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	0.179	2.0	Standard	No Exceedance
G05	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G05	UA	E005	Boron, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	-0.011	2	Standard	No Exceedance
G05	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G05	UA	E005	Chloride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	17.3	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
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	E005	Chromium, total	mg/L	03/04/21 - 04/23/24	15	67	CI around median	0.0015	0.1	Standard	No Exceedance
G05	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	8.24e-05	0.006	Standard	No Exceedance
G05	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	0.353	4.0	Standard	No Exceedance
G05	UA	E005	Lead, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.0075	Standard	No Exceedance
G05	UA	E005	Lithium, total	mg/L	03/04/21 - 04/23/24	15	73	CI around median	0.003	0.04	Standard	No Exceedance
G05	UA	E005	Mercury, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
G05	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/23/24	15	7	CI around mean	0.00391	0.1	Standard	No Exceedance
G05	UA	E005	pH (field)	SU	03/04/21 - 04/23/24	15	0	CI around mean	6.4/6.5	6.0/9.0	Background/Standard	No Exceedance
G05	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/23/24	15	0	CI around geomean	0.454	5	Standard	No Exceedance
G05	UA	E005	Selenium, total	mg/L	03/04/21 - 04/23/24	15	27	CB around linear reg	0.000257	0.05	Standard	No Exceedance
G05	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	84.5	400	Standard	No Exceedance
G05	UA	E005	Thallium, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.002	0.002	Standard	No Exceedance
G05	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	351	1,200	Standard	No Exceedance
G06	UA	E005	Antimony, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.006	Standard	No Exceedance
G06	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/23/24	15	53	CI around median	0.001	0.010	Standard	No Exceedance
G06	UA	E005	Barium, total	mg/L	03/04/21 - 04/23/24	15	0	CI around median	0.0257	2.0	Standard	No Exceedance
G06	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.004	Standard	No Exceedance
G06	UA	E005	Boron, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	3.03	2	Standard	Exceedance
G06	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G06	UA	E005	Chloride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	20.9	200	Standard	No Exceedance
G06	UA	E005	Chromium, total	mg/L	03/04/21 - 04/23/24	15	27	CI around geomean	0.00164	0.1	Standard	No Exceedance
G06	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/23/24	15	53	CI around median	0.001	0.006	Standard	No Exceedance
G06	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	0.253	4.0	Standard	No Exceedance
G06	UA	E005	Lead, total	mg/L	03/04/21 - 04/23/24	15	73	CI around median	0.001	0.0075	Standard	No Exceedance
G06	UA	E005	Lithium, total	mg/L	03/04/21 - 04/23/24	15	20	CI around median	0.0035	0.04	Standard	No Exceedance
G06	UA	E005	Mercury, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
G06	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.0015	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
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	E005	pH (field)	SU	03/04/21 - 04/23/24	14	0	CI around mean	6.5/6.6	6.0/9.0	Background/Standard	No Exceedance
G06	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/23/24	15	0	CB around linear reg	1.16	5	Standard	No Exceedance
G06	UA	E005	Selenium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G06	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	175	400	Standard	No Exceedance
G06	UA	E005	Thallium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G06	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/23/24	15	0	CB around T-S line	371	1,200	Standard	No Exceedance
G07	UA	E005	Antimony, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G07	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/23/24	15	67	CI around median	0.001	0.010	Standard	No Exceedance
G07	UA	E005	Barium, total	mg/L	03/04/21 - 04/23/24	15	0	CI around geomean	0.0471	2.0	Standard	No Exceedance
G07	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/23/24	15	80	CI around median	0.001	0.004	Standard	No Exceedance
G07	UA	E005	Boron, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	4.27	2	Standard	Exceedance
G07	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G07	UA	E005	Chloride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	20.3	200	Standard	No Exceedance
G07	UA	E005	Chromium, total	mg/L	03/04/21 - 04/23/24	15	33	CI around geomean	0.0024	0.1	Standard	No Exceedance
G07	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/23/24	15	7	CI around mean	0.0017	0.006	Standard	No Exceedance
G07	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around median	0.38	4.0	Standard	No Exceedance
G07	UA	E005	Lead, total	mg/L	03/04/21 - 04/23/24	15	67	CI around median	0.001	0.0075	Standard	No Exceedance
G07	UA	E005	Lithium, total	mg/L	03/04/21 - 04/23/24	15	53	CI around median	0.003	0.04	Standard	No Exceedance
G07	UA	E005	Mercury, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
G07	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/23/24	15	80	CI around median	0.0015	0.1	Standard	No Exceedance
G07	UA	E005	pH (field)	SU	03/04/21 - 04/23/24	15	0	CI around median	6.2/6.4	6.0/9.0	Background/Standard	No Exceedance
G07	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/23/24	15	0	CB around linear reg	1.48	5	Standard	No Exceedance
G07	UA	E005	Selenium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G07	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	254	400	Standard	No Exceedance
G07	UA	E005	Thallium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G07	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	578	1,200	Standard	No Exceedance
G08	UA	E005	Antimony, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G08	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/23/24	15	7	CI around mean	0.00599	0.010	Standard	No Exceedance
G08	UA	E005	Barium, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	0.0523	2.0	Standard	No Exceedance
G08	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.004	Standard	No Exceedance
G08	UA	E005	Boron, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	4.24	2	Standard	Exceedance
G08	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.005	Standard	No Exceedance
G08	UA	E005	Chloride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	13.9	200	Standard	No Exceedance
G08	UA	E005	Chromium, total	mg/L	03/04/21 - 04/23/24	15	13	CI around geomean	0.00181	0.1	Standard	No Exceedance
G08	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/23/24	15	7	CI around geomean	0.00354	0.006	Standard	No Exceedance
G08	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	0.218	4.0	Standard	No Exceedance
G08	UA	E005	Lead, total	mg/L	03/04/21 - 04/23/24	15	73	CI around median	0.001	0.0075	Standard	No Exceedance
G08	UA	E005	Lithium, total	mg/L	03/04/21 - 04/23/24	15	73	CI around median	0.003	0.04	Standard	No Exceedance
G08	UA	E005	Mercury, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
G08	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/23/24	15	20	CI around median	0.0017	0.1	Standard	No Exceedance
G08	UA	E005	pH (field)	SU	03/04/21 - 04/23/24	15	0	CI around median	6.8/7.0	6.0/9.0	Background/Standard	No Exceedance
G08	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/23/24	15	0	CB around linear reg	0.806	5	Standard	No Exceedance
G08	UA	E005	Selenium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G08	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	280	400	Standard	No Exceedance
G08	UA	E005	Thallium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G08	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	564	1,200	Standard	No Exceedance
G09	UA	E005	Antimony, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.006	Standard	No Exceedance
G09	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/23/24	15	13	CI around geomean	0.00212	0.010	Standard	No Exceedance
G09	UA	E005	Barium, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	0.0389	2.0	Standard	No Exceedance
G09	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/23/24	15	67	CI around median	0.001	0.004	Standard	No Exceedance
G09	UA	E005	Boron, total	mg/L	03/04/21 - 04/23/24	15	0	CI around median	3.15	2	Standard	Exceedance
G09	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G09	UA	E005	Chloride, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	13.1	200	Standard	No Exceedance
G09	UA	E005	Chromium, total	mg/L	03/04/21 - 04/23/24	15	20	CI around geomean	0.00176	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G09	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	-0.0002	0.006	Standard	No Exceedance
G09	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	0.277	4.0	Standard	No Exceedance
G09	UA	E005	Lead, total	mg/L	03/04/21 - 04/23/24	15	60	CI around median	0.001	0.0075	Standard	No Exceedance
G09	UA	E005	Lithium, total	mg/L	03/04/21 - 04/23/24	15	13	CI around median	0.0034	0.04	Standard	No Exceedance
G09	UA	E005	Mercury, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
G09	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G09	UA	E005	pH (field)	SU	03/04/21 - 04/23/24	15	0	CI around median	6.0/6.4	6.0/9.0	Background/Standard	No Exceedance
G09	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/23/24	15	0	CI around mean	0.359	5	Standard	No Exceedance
G09	UA	E005	Selenium, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.05	Standard	No Exceedance
G09	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/23/24	15	0	CB around T-S line	178	400	Standard	No Exceedance
G09	UA	E005	Thallium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G09	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	443	1,200	Standard	No Exceedance
G10	UA	E005	Antimony, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G10	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/22/24	15	27	CB around linear reg	0.0048	0.010	Standard	No Exceedance
G10	UA	E005	Barium, total	mg/L	03/04/21 - 04/22/24	15	0	CI around geomean	0.039	2.0	Standard	No Exceedance
G10	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/22/24	15	87	CI around median	0.001	0.004	Standard	No Exceedance
G10	UA	E005	Boron, total	mg/L	03/04/21 - 04/22/24	15	0	CB around linear reg	1.35	2	Standard	No Exceedance
G10	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G10	UA	E005	Chloride, total	mg/L	03/04/21 - 04/22/24	15	0	CB around linear reg	18.2	200	Standard	No Exceedance
G10	UA	E005	Chromium, total	mg/L	03/04/21 - 04/22/24	15	27	CI around geomean	0.00185	0.1	Standard	No Exceedance
G10	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/22/24	15	0	CB around linear reg	-0.000578	0.006	Standard	No Exceedance
G10	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/22/24	15	0	CI around median	0.28	4.0	Standard	No Exceedance
G10	UA	E005	Lead, total	mg/L	03/04/21 - 04/22/24	15	73	CI around median	0.001	0.0075	Standard	No Exceedance
G10	UA	E005	Lithium, total	mg/L	03/04/21 - 04/22/24	15	33	CI around median	0.003	0.04	Standard	No Exceedance
G10	UA	E005	Mercury, total	mg/L	03/04/21 - 04/22/24	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
G10	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/22/24	15	53	CI around median	0.0015	0.1	Standard	No Exceedance
G10	UA	E005	pH (field)	SU	03/04/21 - 04/22/24	15	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 2, 2024
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	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/22/24	15	0	CI around mean	0.601	5	Standard	No Exceedance
G10	UA	E005	Selenium, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G10	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/22/24	15	0	CI around mean	352	400	Standard	No Exceedance
G10	UA	E005	Thallium, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G10	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/22/24	15	0	CI around mean	753	1,200	Standard	No Exceedance
G11	UA	E005	Antimony, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G11	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/22/24	15	93	CI around median	0.001	0.010	Standard	No Exceedance
G11	UA	E005	Barium, total	mg/L	03/04/21 - 04/22/24	15	0	CI around geomean	0.0147	2.0	Standard	No Exceedance
G11	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/22/24	15	93	CI around median	0.001	0.004	Standard	No Exceedance
G11	UA	E005	Boron, total	mg/L	03/04/21 - 04/22/24	15	0	CI around mean	0.283	2	Standard	No Exceedance
G11	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G11	UA	E005	Chloride, total	mg/L	03/04/21 - 04/22/24	15	0	CI around mean	29.7	200	Standard	No Exceedance
G11	UA	E005	Chromium, total	mg/L	03/04/21 - 04/22/24	15	80	CI around median	0.0015	0.1	Standard	No Exceedance
G11	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/22/24	15	40	CI around geomean	0.000991	0.006	Standard	No Exceedance
G11	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/22/24	15	0	CI around mean	0.17	4.0	Standard	No Exceedance
G11	UA	E005	Lead, total	mg/L	03/04/21 - 04/22/24	15	87	CI around median	0.001	0.0075	Standard	No Exceedance
G11	UA	E005	Lithium, total	mg/L	03/04/21 - 04/22/24	15	13	CI around median	0.0035	0.04	Standard	No Exceedance
G11	UA	E005	Mercury, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G11	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/22/24	15	93	CI around median	0.0015	0.1	Standard	No Exceedance
G11	UA	E005	pH (field)	SU	03/04/21 - 04/22/24	15	0	CI around median	5.8/6.0	6.0/9.0	Background/Standard	No Exceedance
G11	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/22/24	15	0	CI around mean	0.341	5	Standard	No Exceedance
G11	UA	E005	Selenium, total	mg/L	03/04/21 - 04/22/24	15	0	CB around linear reg	-0.00266	0.05	Standard	No Exceedance
G11	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/22/24	15	0	CB around linear reg	-12.6	400	Standard	No Exceedance
G11	UA	E005	Thallium, total	mg/L	03/04/21 - 04/22/24	15	93	CI around median	0.002	0.002	Standard	No Exceedance
G11	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/22/24	15	0	CB around linear reg	168	1,200	Standard	No Exceedance
G51D	UA	E005	Antimony, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G51D	UA	E005	Arsenic, total	mg/L	12/03/15 - 04/22/24	25	100	All ND - Last	0.001	0.010	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
G51D	UA	E005	Barium, total	mg/L	12/03/15 - 04/22/24	25	0	CB around T-S line	0.0131	2.0	Standard	No Exceedance
G51D	UA	E005	Beryllium, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G51D	UA	E005	Boron, total	mg/L	12/03/15 - 04/22/24	26	0	CB around T-S line	0.547	2	Standard	No Exceedance
G51D	UA	E005	Cadmium, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G51D	UA	E005	Chloride, total	mg/L	12/03/15 - 04/22/24	26	0	CB around T-S line	2.53	200	Standard	No Exceedance
G51D	UA	E005	Chromium, total	mg/L	12/03/15 - 04/22/24	25	68	CB around T-S line	0.00152	0.1	Standard	No Exceedance
G51D	UA	E005	Cobalt, total	mg/L	12/03/15 - 04/22/24	25	20	CB around T-S line	-0.0121	0.006	Standard	No Exceedance
G51D	UA	E005	Fluoride, total	mg/L	12/03/15 - 04/22/24	26	85	CI around median	0.1	4.0	Standard	No Exceedance
G51D	UA	E005	Lead, total	mg/L	12/03/15 - 04/22/24	25	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G51D	UA	E005	Lithium, total	mg/L	12/03/15 - 04/22/24	25	4	CB around T-S line	0.00556	0.04	Standard	No Exceedance
G51D	UA	E005	Mercury, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
G51D	UA	E005	Molybdenum, total	mg/L	12/03/15 - 04/22/24	21	95	CB around T-S line	0.00142	0.1	Standard	No Exceedance
G51D	UA	E005	pH (field)	SU	12/03/15 - 04/22/24	26	0	CB around T-S line	5.1/5.4	6.0/9.0	Background/Standard	Exceedance
G51D	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 04/22/24	25	0	CI around mean	0.533	5	Standard	No Exceedance
G51D	UA	E005	Selenium, total	mg/L	12/03/15 - 04/22/24	25	4	CB around T-S line	0.0046	0.05	Standard	No Exceedance
G51D	UA	E005	Sulfate, total	mg/L	12/03/15 - 04/22/24	26	0	CB around T-S line	102	400	Standard	No Exceedance
G51D	UA	E005	Thallium, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G51D	UA	E005	Total Dissolved Solids	mg/L	12/03/15 - 04/22/24	26	0	CB around linear reg	280	1,200	Standard	No Exceedance
G52D	UA	E005	Antimony, total	mg/L	12/03/15 - 04/23/24	19	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G52D	UA	E005	Arsenic, total	mg/L	12/03/15 - 04/23/24	24	8	CB around linear reg	-0.000536	0.010	Standard	No Exceedance
G52D	UA	E005	Barium, total	mg/L	12/03/15 - 04/23/24	24	0	CB around T-S line	0.106	2.0	Standard	No Exceedance
G52D	UA	E005	Beryllium, total	mg/L	12/03/15 - 04/23/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G52D	UA	E005	Boron, total	mg/L	12/03/15 - 04/23/24	25	92	CI around median	0.025	2	Standard	No Exceedance
G52D	UA	E005	Cadmium, total	mg/L	12/03/15 - 04/23/24	19	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G52D	UA	E005	Chloride, total	mg/L	12/03/15 - 04/23/24	25	0	CB around linear reg	7.31	200	Standard	No Exceedance
G52D	UA	E005	Chromium, total	mg/L	12/03/15 - 04/23/24	24	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
G52D	UA	E005	Cobalt, total	mg/L	12/03/15 - 04/23/24	24	0	CI around mean	0.00295	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
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	E005	Fluoride, total	mg/L	12/03/15 - 04/23/24	25	0	CI around median	0.25	4.0	Standard	No Exceedance
G52D	UA	E005	Lead, total	mg/L	12/03/15 - 04/23/24	24	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G52D	UA	E005	Lithium, total	mg/L	12/03/15 - 04/23/24	24	50	CI around median	0.003	0.04	Standard	No Exceedance
G52D	UA	E005	Mercury, total	mg/L	12/03/15 - 04/23/24	19	95	Most recent sample	0.0002	0.002	Standard	No Exceedance
G52D	UA	E005	Molybdenum, total	mg/L	12/03/15 - 04/23/24	20	80	CI around median	0.0011	0.1	Standard	No Exceedance
G52D	UA	E005	pH (field)	SU	12/03/15 - 04/23/24	25	0	CI around mean	6.2/6.4	6.0/9.0	Background/Standard	No Exceedance
G52D	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 04/23/24	24	0	CI around mean	0.896	5	Standard	No Exceedance
G52D	UA	E005	Selenium, total	mg/L	12/03/15 - 04/23/24	24	96	CI around median	0.001	0.05	Standard	No Exceedance
G52D	UA	E005	Sulfate, total	mg/L	12/03/15 - 04/23/24	25	0	CB around linear reg	44.9	400	Standard	No Exceedance
G52D	UA	E005	Thallium, total	mg/L	12/03/15 - 04/23/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G52D	UA	E005	Total Dissolved Solids	mg/L	12/03/15 - 04/23/24	25	0	CB around linear reg	271	1,200	Standard	No Exceedance
G53D	UA	E005	Antimony, total	mg/L	12/03/15 - 04/23/24	20	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G53D	UA	E005	Arsenic, total	mg/L	12/03/15 - 04/23/24	25	100	All ND - Last	0.001	0.010	Standard	No Exceedance
G53D	UA	E005	Barium, total	mg/L	12/03/15 - 04/23/24	25	0	CB around T-S line	-0.00519	2.0	Standard	No Exceedance
G53D	UA	E005	Beryllium, total	mg/L	12/03/15 - 04/23/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G53D	UA	E005	Boron, total	mg/L	12/03/15 - 04/23/24	26	0	CI around median	0.341	2	Standard	No Exceedance
G53D	UA	E005	Cadmium, total	mg/L	12/03/15 - 04/23/24	20	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G53D	UA	E005	Chloride, total	mg/L	12/03/15 - 04/23/24	26	0	CI around median	18	200	Standard	No Exceedance
G53D	UA	E005	Chromium, total	mg/L	12/03/15 - 04/23/24	25	80	CB around T-S line	0.0015	0.1	Standard	No Exceedance
G53D	UA	E005	Cobalt, total	mg/L	12/03/15 - 04/23/24	25	16	CI around median	0.0013	0.006	Standard	No Exceedance
G53D	UA	E005	Fluoride, total	mg/L	12/03/15 - 04/23/24	26	0	CI around mean	0.646	4.0	Standard	No Exceedance
G53D	UA	E005	Lead, total	mg/L	12/03/15 - 04/23/24	25	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
G53D	UA	E005	Lithium, total	mg/L	12/03/15 - 04/23/24	25	60	CB around T-S line	0.00287	0.04	Standard	No Exceedance
G53D	UA	E005	Mercury, total	mg/L	12/03/15 - 04/23/24	20	95	CI around median	0.0002	0.002	Standard	No Exceedance
G53D	UA	E005	Molybdenum, total	mg/L	12/03/15 - 04/23/24	21	90	CB around T-S line	0.00134	0.1	Standard	No Exceedance
G53D	UA	E005	pH (field)	SU	12/03/15 - 04/23/24	26	0	CB around T-S line	6.3/6.4	6.0/9.0	Background/Standard	No Exceedance
G53D	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 04/23/24	25	0	CI around mean	0.378	5	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
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	E005	Selenium, total	mg/L	12/03/15 - 04/23/24	25	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G53D	UA	E005	Sulfate, total	mg/L	12/03/15 - 04/23/24	26	0	CB around T-S line	47.2	400	Standard	No Exceedance
G53D	UA	E005	Thallium, total	mg/L	12/03/15 - 04/23/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G53D	UA	E005	Total Dissolved Solids	mg/L	12/03/15 - 04/23/24	26	0	CB around T-S line	269	1,200	Standard	No Exceedance
G54D	UA	E005	Antimony, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.001	0.006	Standard	No Exceedance
G54D	UA	E005	Arsenic, total	mg/L	12/03/15 - 04/22/24	25	52	CB around T-S line	-0.000236	0.010	Standard	No Exceedance
G54D	UA	E005	Barium, total	mg/L	12/03/15 - 04/22/24	25	0	CB around T-S line	0.0584	2.0	Standard	No Exceedance
G54D	UA	E005	Beryllium, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
G54D	UA	E005	Boron, total	mg/L	12/03/15 - 04/22/24	26	0	CI around mean	0.482	2	Standard	No Exceedance
G54D	UA	E005	Cadmium, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.001	0.005	Standard	No Exceedance
G54D	UA	E005	Chloride, total	mg/L	12/03/15 - 04/22/24	26	4	CB around T-S line	15.1	200	Standard	No Exceedance
G54D	UA	E005	Chromium, total	mg/L	12/03/15 - 04/22/24	25	68	CI around median	0.0015	0.1	Standard	No Exceedance
G54D	UA	E005	Cobalt, total	mg/L	12/03/15 - 04/22/24	25	0	CB around linear reg	0.00391	0.006	Standard	No Exceedance
G54D	UA	E005	Fluoride, total	mg/L	12/03/15 - 04/22/24	26	0	CB around linear reg	0.26	4.0	Standard	No Exceedance
G54D	UA	E005	Lead, total	mg/L	12/03/15 - 04/22/24	25	96	CI around median	0.001	0.0075	Standard	No Exceedance
G54D	UA	E005	Lithium, total	mg/L	12/03/15 - 04/22/24	25	16	CB around linear reg	0.0019	0.04	Standard	No Exceedance
G54D	UA	E005	Mercury, total	mg/L	12/03/15 - 04/22/24	20	95	CI around median	0.0002	0.002	Standard	No Exceedance
G54D	UA	E005	Molybdenum, total	mg/L	12/03/15 - 04/22/24	21	95	CB around T-S line	0.00142	0.1	Standard	No Exceedance
G54D	UA	E005	pH (field)	SU	12/03/15 - 04/22/24	26	0	CI around mean	6.6/6.8	6.0/9.0	Background/Standard	No Exceedance
G54D	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 04/22/24	25	0	CI around geomean	0.511	5	Standard	No Exceedance
G54D	UA	E005	Selenium, total	mg/L	12/03/15 - 04/22/24	25	100	All ND - Last	0.001	0.05	Standard	No Exceedance
G54D	UA	E005	Sulfate, total	mg/L	12/03/15 - 04/22/24	26	0	CB around linear reg	181	400	Standard	No Exceedance
G54D	UA	E005	Thallium, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
G54D	UA	E005	Total Dissolved Solids	mg/L	12/03/15 - 04/22/24	26	0	CI around mean	493	1,200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
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

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

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

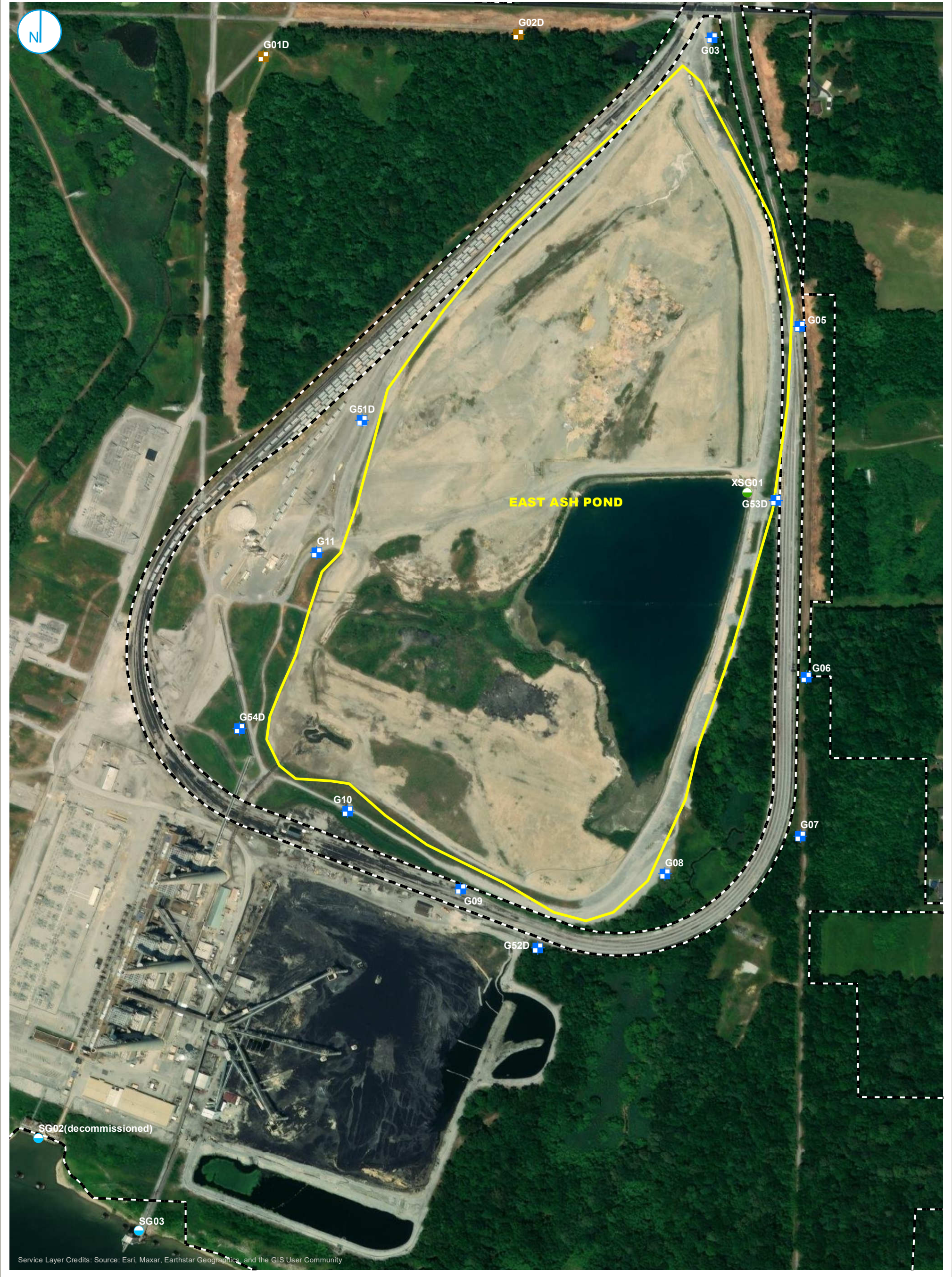
GWPS = Groundwater Protection Standard

GWPS Source:

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

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

FIGURES



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, RIVER
- 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.



ATTACHMENTS

**ATTACHMENT A
SUMMARY OF GROUNDWATER ELEVATION DATA
QUARTER 2, 2024**

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 2, 2024
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	04/22/2024	41.85	322.51
G02D	Background	04/22/2024	42.33	321.49
G03	Compliance	04/22/2024	37.38	320.66
G05	Compliance	04/22/2024	41.76	319.62
G06	Compliance	04/22/2024	57.75	297.66
G07	Compliance	04/22/2024	37.30	316.40
G08	Compliance	04/22/2024	27.18	316.53
G09	Compliance	04/22/2024	25.79	326.08
G10	Compliance	04/22/2024	35.44	318.22
G11	Compliance	04/22/2024	45.32	321.40
G51D	Compliance	04/22/2024	42.48	321.54
G52D	Compliance	04/22/2024	27.25	321.33
G53D	Compliance	04/22/2024	36.31	319.33
G54D	Compliance	04/22/2024	37.95	319.25
XSG01	Water Level	04/22/2024	Not Measured	
SG03	Water Level	04/22/2024	38.25	311.75

Notes:
BMP = below measuring point
NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 2, 2024**

May 15, 2024

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



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: JOP-24Q2

WorkOrder: 24041007

Dear Eric Bauer:

TEKLAB, INC received 21 samples for JOP_845_401 on 4/23/2024 6:33:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,



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



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

This reporting package includes the following:

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Case Narrative	5
Accreditations	6
Laboratory Results	7
Sample Summary	46
Quality Control Results	47
Receiving Check List	66
Chain of Custody	Appended

Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

Abbr Definition

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)



Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

Qualifiers

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



Case Narrative

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

Cooler Receipt Temp: 5.7 °C

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

XSG01 and YSG03 date/times of collection per SAR3/SAR4 depth files. Equipment Blanks were not required. EAH 4/24/24

G005 collection time per field file. EAH 4/30/24

G001D, G002D, G003, G051D, and Field Blank collection times per field file. EAH 5/10/24

Per Eric Bauer's request, only JOP_845_401 data is included in this report. EAH 5/15/24

Locations

Collinsville

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

Collinsville Air

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

Springfield

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

Chicago

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

Kansas City

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



Accreditations

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND

JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-001
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G001D
Collection Date: 04/22/2024 12:01

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		41.86	ft	1	04/22/2024 12:01	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		220	NTU	1	04/22/2024 12:01	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		131	mV	1	04/22/2024 12:01	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		568	µS/cm	1	04/22/2024 12:01	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.3	°C	1	04/22/2024 12:01	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.75	mg/L	1	04/22/2024 12:01	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.32		1	04/22/2024 12:01	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		216	mg/L	1	04/26/2024 13:55	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 13:55	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		310	mg/L	1	04/24/2024 8:31	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	12	20		42	mg/L	2	04/25/2024 20:30	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.20	mg/L	1	04/30/2024 10:26	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		16	mg/L	1	04/25/2024 20:20	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		40.4	mg/L	1	04/24/2024 16:03	221874
Magnesium	NELAP	0.0055	0.0500		12.0	mg/L	1	04/24/2024 16:03	221874
Potassium	NELAP	0.0400	0.100		1.52	mg/L	1	04/24/2024 16:03	221874
Sodium	NELAP	0.0180	0.0500		69.2	mg/L	1	04/24/2024 16:03	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 14:08	221874
Arsenic	NELAP	0.0004	0.0010	J	0.0008	mg/L	5	04/24/2024 14:08	221874
Barium	NELAP	0.0007	0.0010		0.218	mg/L	5	04/24/2024 14:08	221874
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 14:08	221874
Boron	NELAP	0.0092	0.0250		< 0.0250	mg/L	5	04/24/2024 14:08	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 14:08	221874
Chromium	NELAP	0.0008	0.0015		0.0046	mg/L	5	04/24/2024 14:08	221874
Cobalt	NELAP	0.0001	0.0010		0.0015	mg/L	5	04/25/2024 13:35	221874
Lead	NELAP	0.0006	0.0010		0.0011	mg/L	5	04/24/2024 14:08	221874
Lithium	*	0.0015	0.0030	J	0.0017	mg/L	5	04/25/2024 13:35	221874
Molybdenum	NELAP	0.0006	0.0015	J	0.0007	mg/L	5	04/25/2024 13:35	221874
Selenium	NELAP	0.0006	0.0010		0.0013	mg/L	5	04/24/2024 14:08	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 14:08	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-001
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G001D
Collection Date: 04/22/2024 12:01

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00035	mg/L	1	05/01/2024 13:36	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND

JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-002
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G002D
Collection Date: 04/22/2024 12:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		42.32	ft	1	04/22/2024 12:59	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		< 1.0	NTU	1	04/22/2024 12:59	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		162	mV	1	04/22/2024 12:59	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		406	µS/cm	1	04/22/2024 12:59	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		14.8	°C	1	04/22/2024 12:59	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		2.91	mg/L	1	04/22/2024 12:59	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.25		1	04/22/2024 12:59	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		151	mg/L	1	04/26/2024 14:00	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 14:00	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		218	mg/L	1	04/24/2024 8:52	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		13	mg/L	1	04/25/2024 20:41	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.22	mg/L	1	04/30/2024 10:28	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		19	mg/L	1	04/25/2024 20:41	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		38.9	mg/L	1	04/24/2024 16:05	221874
Magnesium	NELAP	0.0055	0.0500		11.0	mg/L	1	04/24/2024 16:05	221874
Potassium	NELAP	0.0400	0.100		1.19	mg/L	1	04/24/2024 16:05	221874
Sodium	NELAP	0.0180	0.0500		31.9	mg/L	1	04/24/2024 16:05	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 14:14	221874
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	04/24/2024 14:14	221874
Barium	NELAP	0.0007	0.0010		0.180	mg/L	5	04/24/2024 14:14	221874
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 14:14	221874
Boron	NELAP	0.0092	0.0250		< 0.0250	mg/L	5	04/24/2024 14:14	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 14:14	221874
Chromium	NELAP	0.0008	0.0015	J	0.0012	mg/L	5	04/24/2024 14:14	221874
Cobalt	NELAP	0.0001	0.0010	J	0.0002	mg/L	5	04/24/2024 14:14	221874
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 14:14	221874
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	04/25/2024 13:41	221874
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	04/25/2024 13:41	221874
Selenium	NELAP	0.0006	0.0010		0.0014	mg/L	5	04/24/2024 14:14	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 14:14	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-002
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G002D
Collection Date: 04/22/2024 12:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00027	mg/L	1	05/01/2024 13:38	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND

JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-003
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G003
Collection Date: 04/22/2024 14:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		37.45	ft	1	04/22/2024 14:26	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		86	NTU	1	04/22/2024 14:26	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		170	mV	1	04/22/2024 14:26	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		505	µS/cm	1	04/22/2024 14:26	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		19.9	°C	1	04/22/2024 14:26	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		3.46	mg/L	1	04/22/2024 14:26	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.24		1	04/22/2024 14:26	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		130	mg/L	1	04/26/2024 14:05	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 14:05	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		245	mg/L	2.5	04/24/2024 8:52	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		73	mg/L	5	04/25/2024 21:02	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.21	mg/L	1	04/30/2024 10:30	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		20	mg/L	1	04/25/2024 20:44	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		45.2	mg/L	1	04/24/2024 16:16	221874
Magnesium	NELAP	0.0055	0.0500		15.1	mg/L	1	04/24/2024 16:16	221874
Potassium	NELAP	0.0400	0.100		1.33	mg/L	1	04/24/2024 16:16	221874
Sodium	NELAP	0.0180	0.0500		33.2	mg/L	1	04/24/2024 16:16	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 17:00	221874
Arsenic	NELAP	0.0004	0.0010		0.0016	mg/L	5	04/24/2024 17:00	221874
Barium	NELAP	0.0007	0.0010		0.0647	mg/L	5	04/24/2024 17:00	221874
Beryllium	NELAP	0.0002	0.0010	J	0.0003	mg/L	5	04/24/2024 17:00	221874
Boron	NELAP	0.0092	0.0250		0.280	mg/L	5	04/30/2024 17:18	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 17:00	221874
Chromium	NELAP	0.0008	0.0015		0.0085	mg/L	5	04/24/2024 17:00	221874
Cobalt	NELAP	0.0001	0.0010		0.0023	mg/L	5	04/24/2024 17:00	221874
Lead	NELAP	0.0006	0.0010		0.0017	mg/L	5	04/24/2024 17:00	221874
Lithium	*	0.0015	0.0030	J	0.0023	mg/L	5	04/25/2024 16:33	221874
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	05/02/2024 11:12	221874
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 17:00	221874
Thallium	NELAP	0.0010	0.0020	J	0.0016	mg/L	5	04/24/2024 17:00	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-003
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G003
Collection Date: 04/22/2024 14:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00044	mg/L	1	05/01/2024 13:41	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND

JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-004
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G005
Collection Date: 04/23/2024 11:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		43.20	ft	1	04/23/2024 11:18	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		39	NTU	1	04/23/2024 11:18	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		26	mV	1	04/23/2024 11:18	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		526	µS/cm	1	04/23/2024 11:18	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.9	°C	1	04/23/2024 11:18	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.70	mg/L	1	04/23/2024 11:18	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.38		1	04/23/2024 11:18	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		181	mg/L	1	04/26/2024 14:09	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 14:09	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		336	mg/L	1	04/24/2024 8:53	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		90	mg/L	5	04/25/2024 21:10	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.38	mg/L	1	04/30/2024 10:32	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		18	mg/L	1	04/25/2024 21:05	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		53.8	mg/L	1	04/24/2024 16:06	221874
Magnesium	NELAP	0.0055	0.0500		19.2	mg/L	1	04/24/2024 16:06	221874
Potassium	NELAP	0.0400	0.100		1.85	mg/L	1	04/24/2024 16:06	221874
Sodium	NELAP	0.0180	0.0500		43.8	mg/L	1	04/24/2024 16:06	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010	J	0.0008	mg/L	5	04/24/2024 15:00	221874
Arsenic	NELAP	0.0004	0.0010	J	0.0009	mg/L	5	04/24/2024 15:00	221874
Barium	NELAP	0.0007	0.0010		0.208	mg/L	5	04/24/2024 15:00	221874
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 15:00	221874
Boron	NELAP	0.0092	0.0250		0.0503	mg/L	5	04/24/2024 15:00	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 15:00	221874
Chromium	NELAP	0.0007	0.0015		0.0029	mg/L	5	04/25/2024 13:46	221874
Cobalt	NELAP	0.0001	0.0010		0.0025	mg/L	5	04/24/2024 15:00	221874
Lead	NELAP	0.0006	0.0010	J	0.0007	mg/L	5	04/24/2024 15:00	221874
Lithium	*	0.0015	0.0030	J	0.0029	mg/L	5	04/25/2024 13:46	221874
Molybdenum	NELAP	0.0006	0.0015		0.0040	mg/L	5	04/25/2024 13:46	221874
Selenium	NELAP	0.0006	0.0010		0.0017	mg/L	5	04/24/2024 15:00	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 15:00	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-004
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G005
Collection Date: 04/23/2024 11:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00032	mg/L	1	05/01/2024 13:43	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-005
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G006
Collection Date: 04/23/2024 15:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		37.32	ft	1	04/23/2024 15:17	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		77	NTU	1	04/23/2024 15:17	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		84	mV	1	04/23/2024 15:17	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		693	µS/cm	1	04/23/2024 15:17	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.1	°C	1	04/23/2024 15:17	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.32	mg/L	1	04/23/2024 15:17	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.59		1	04/23/2024 15:17	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		162	mg/L	1	04/26/2024 14:14	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 14:14	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		486	mg/L	1	04/24/2024 10:29	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		185	mg/L	10	04/25/2024 21:18	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.26	mg/L	1	04/30/2024 10:33	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		19	mg/L	1	04/25/2024 21:13	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100	S	86.0	mg/L	1	04/25/2024 17:25	221253
Magnesium	NELAP	0.0055	0.0500	S	23.7	mg/L	1	04/25/2024 17:25	221253
Potassium	NELAP	0.0400	0.100		2.65	mg/L	1	04/25/2024 17:25	221253
Sodium	NELAP	0.0180	0.0500	S	44.8	mg/L	1	04/25/2024 17:25	221253
<i>Matrix spike control limits are not applicable due to high sample/spike ratio.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/25/2024 17:36	221253
Arsenic	NELAP	0.0004	0.0010		0.0020	mg/L	5	04/25/2024 17:36	221253
Barium	NELAP	0.0007	0.0010		0.0453	mg/L	5	04/25/2024 17:36	221253
Beryllium	NELAP	0.0002	0.0010	J	0.0003	mg/L	5	04/25/2024 17:36	221253
Boron	NELAP	0.0092	0.0250	S	3.17	mg/L	5	04/30/2024 18:41	221253
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/25/2024 17:36	221253
Chromium	NELAP	0.0007	0.0015		0.0084	mg/L	5	04/25/2024 17:36	221253
Cobalt	NELAP	0.0001	0.0010		0.0021	mg/L	5	04/25/2024 17:36	221253
Lead	NELAP	0.0006	0.0010		0.0024	mg/L	5	04/25/2024 17:36	221253
Lithium	*	0.0015	0.0030		0.0062	mg/L	5	04/25/2024 17:36	221253
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	05/06/2024 9:49	221253
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/25/2024 17:36	221253
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/30/2024 18:41	221253

Matrix spike control limits are not applicable due to high sample/spike ratio.



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-005
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G006
Collection Date: 04/23/2024 15:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00031	mg/L	1	05/01/2024 13:45	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND

JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-006
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G007
Collection Date: 04/23/2024 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		37.17	ft	1	04/23/2024 11:30	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		88	NTU	1	04/23/2024 11:30	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		138	mV	1	04/23/2024 11:30	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		895	µS/cm	1	04/23/2024 11:30	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.3	°C	1	04/23/2024 11:30	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.07	mg/L	1	04/23/2024 11:30	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.39		1	04/23/2024 11:30	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		165	mg/L	1	04/26/2024 14:19	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 14:19	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		575	mg/L	2.5	04/24/2024 8:53	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		262	mg/L	10	04/25/2024 21:26	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.42	mg/L	1	04/30/2024 10:35	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		20	mg/L	1	04/25/2024 21:21	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		94.5	mg/L	1	04/24/2024 16:20	221874
Magnesium	NELAP	0.0055	0.0500		24.3	mg/L	1	04/24/2024 16:20	221874
Potassium	NELAP	0.0400	0.100		4.61	mg/L	1	04/24/2024 16:20	221874
Sodium	NELAP	0.0180	0.0500		62.1	mg/L	1	04/24/2024 16:20	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 15:06	221874
Arsenic	NELAP	0.0004	0.0010		0.0069	mg/L	5	04/24/2024 15:06	221874
Barium	NELAP	0.0007	0.0010		0.265	mg/L	5	04/24/2024 15:06	221874
Beryllium	NELAP	0.0002	0.0010		0.0015	mg/L	5	04/24/2024 15:06	221874
Boron	NELAP	0.0092	0.0250		4.12	mg/L	5	04/24/2024 15:06	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 15:06	221874
Chromium	NELAP	0.0008	0.0015		0.0514	mg/L	5	04/24/2024 15:06	221874
Cobalt	NELAP	0.0001	0.0010		0.0066	mg/L	5	04/24/2024 15:06	221874
Lead	NELAP	0.0006	0.0010		0.0106	mg/L	5	04/24/2024 15:06	221874
Lithium	*	0.0015	0.0030		0.0102	mg/L	5	04/25/2024 13:52	221874
Molybdenum	NELAP	0.0006	0.0015		0.0021	mg/L	5	04/25/2024 13:52	221874
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 15:06	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 15:06	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-006
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G007
Collection Date: 04/23/2024 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00021	mg/L	1	05/01/2024 13:48	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-007
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G008
Collection Date: 04/23/2024 9:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		27.05	ft	1	04/23/2024 9:51	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		27	NTU	1	04/23/2024 9:51	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-8	mV	1	04/23/2024 9:51	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		886	µS/cm	1	04/23/2024 9:51	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.4	°C	1	04/23/2024 9:51	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.34	mg/L	1	04/23/2024 9:51	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.89		1	04/23/2024 9:51	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		174	mg/L	1	04/26/2024 14:24	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 14:24	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		592	mg/L	1	04/24/2024 8:53	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		266	mg/L	10	04/25/2024 21:34	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.28	mg/L	1	04/30/2024 10:37	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		12	mg/L	1	04/25/2024 21:29	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		121	mg/L	1	04/24/2024 16:22	221874
Magnesium	NELAP	0.0055	0.0500		29.8	mg/L	1	04/24/2024 16:22	221874
Potassium	NELAP	0.0400	0.100		1.66	mg/L	1	04/24/2024 16:22	221874
Sodium	NELAP	0.0180	0.0500		31.0	mg/L	1	04/24/2024 16:22	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 15:11	221874
Arsenic	NELAP	0.0004	0.0010		0.0044	mg/L	5	04/24/2024 15:11	221874
Barium	NELAP	0.0007	0.0010		0.0524	mg/L	5	04/24/2024 15:11	221874
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 15:11	221874
Boron	NELAP	0.0092	0.0250		4.45	mg/L	5	04/24/2024 15:11	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 15:11	221874
Chromium	NELAP	0.0008	0.0015		0.0036	mg/L	5	04/24/2024 15:11	221874
Cobalt	NELAP	0.0001	0.0010		0.0037	mg/L	5	04/24/2024 15:11	221874
Lead	NELAP	0.0006	0.0010	J	0.0007	mg/L	5	04/24/2024 15:11	221874
Lithium	*	0.0015	0.0030		0.0031	mg/L	5	04/25/2024 13:58	221874
Molybdenum	NELAP	0.0006	0.0015	J	0.0014	mg/L	5	04/25/2024 13:58	221874
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 15:11	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 15:11	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2

Work Order: 24041007
Report Date: 15-May-24

Lab ID: 24041007-007

Client Sample ID: G008

Matrix: GROUNDWATER

Collection Date: 04/23/2024 9:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00021	mg/L	1	05/01/2024 13:50	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-008
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G009
Collection Date: 04/23/2024 8:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		35.69	ft	1	04/23/2024 8:42	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		74	NTU	1	04/23/2024 8:42	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-4	mV	1	04/23/2024 8:42	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		747	µS/cm	1	04/23/2024 8:42	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.0	°C	1	04/23/2024 8:42	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.16	mg/L	1	04/23/2024 8:42	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.11		1	04/23/2024 8:42	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		105	mg/L	1	04/26/2024 14:37	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 14:37	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		530	mg/L	2.5	04/24/2024 9:15	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		234	mg/L	10	04/25/2024 21:55	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.27	mg/L	1	04/30/2024 10:57	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		15	mg/L	1	04/25/2024 21:37	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		64.6	mg/L	1	04/24/2024 16:24	221874
Magnesium	NELAP	0.0055	0.0500		25.1	mg/L	1	04/24/2024 16:24	221874
Potassium	NELAP	0.0400	0.100		1.14	mg/L	1	04/24/2024 16:24	221874
Sodium	NELAP	0.0180	0.0500		50.3	mg/L	1	04/24/2024 16:24	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010	J	0.0008	mg/L	5	04/24/2024 15:17	221874
Arsenic	NELAP	0.0004	0.0010		0.0061	mg/L	5	04/24/2024 15:17	221874
Barium	NELAP	0.0007	0.0010		0.0642	mg/L	5	04/24/2024 15:17	221874
Beryllium	NELAP	0.0002	0.0010		0.0013	mg/L	5	04/24/2024 15:17	221874
Boron	NELAP	0.0092	0.0250		3.52	mg/L	5	04/24/2024 15:17	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 15:17	221874
Chromium	NELAP	0.0008	0.0015		0.0179	mg/L	5	04/24/2024 15:17	221874
Cobalt	NELAP	0.0001	0.0010		0.0051	mg/L	5	04/24/2024 15:17	221874
Lead	NELAP	0.0006	0.0010		0.0039	mg/L	5	04/24/2024 15:17	221874
Lithium	*	0.0015	0.0030		0.0046	mg/L	5	04/25/2024 14:44	221874
Molybdenum	NELAP	0.0006	0.0015	J	0.0009	mg/L	5	04/25/2024 14:44	221874
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 15:17	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 15:17	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-008
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G009
Collection Date: 04/23/2024 8:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00023	mg/L	1	05/01/2024 13:57	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-009
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G010
Collection Date: 04/22/2024 15:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		35.49	ft	1	04/22/2024 15:16	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		70	NTU	1	04/22/2024 15:16	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		35	mV	1	04/22/2024 15:16	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		1210	µS/cm	1	04/22/2024 15:16	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.1	°C	1	04/22/2024 15:16	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.31	mg/L	1	04/22/2024 15:16	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.60		1	04/22/2024 15:16	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		257	mg/L	1	04/26/2024 14:41	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 14:41	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		800	mg/L	2.5	04/24/2024 9:16	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		339	mg/L	10	04/25/2024 22:03	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.49	mg/L	1	04/30/2024 11:00	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		19	mg/L	1	04/25/2024 21:58	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		124	mg/L	1	04/24/2024 16:25	221874
Magnesium	NELAP	0.0055	0.0500		37.6	mg/L	1	04/24/2024 16:25	221874
Potassium	NELAP	0.200	0.500		11.1	mg/L	5	04/25/2024 12:25	221874
Sodium	NELAP	0.0180	0.0500		83.3	mg/L	1	04/24/2024 16:25	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 15:23	221874
Arsenic	NELAP	0.0004	0.0010		0.0120	mg/L	5	04/24/2024 15:23	221874
Barium	NELAP	0.0007	0.0010		0.0515	mg/L	5	04/24/2024 15:23	221874
Beryllium	NELAP	0.0002	0.0010	J	0.0005	mg/L	5	04/24/2024 15:23	221874
Boron	NELAP	0.0092	0.0250		2.31	mg/L	5	04/24/2024 15:23	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 15:23	221874
Chromium	NELAP	0.0008	0.0015		0.0070	mg/L	5	04/24/2024 15:23	221874
Cobalt	NELAP	0.0001	0.0010		0.0035	mg/L	5	04/24/2024 15:23	221874
Lead	NELAP	0.0006	0.0010		0.0013	mg/L	5	04/24/2024 15:23	221874
Lithium	*	0.0015	0.0030		0.0095	mg/L	5	04/25/2024 14:50	221874
Molybdenum	NELAP	0.0006	0.0015		0.0022	mg/L	5	04/25/2024 14:50	221874
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 15:23	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 15:23	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-009
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G010
Collection Date: 04/22/2024 15:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00028	mg/L	1	05/01/2024 13:59	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND

JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-010
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G011
Collection Date: 04/22/2024 12:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		45.41	ft	1	04/22/2024 12:36	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		20	NTU	1	04/22/2024 12:36	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		112	mV	1	04/22/2024 12:36	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		632	µS/cm	1	04/22/2024 12:36	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.1	°C	1	04/22/2024 12:36	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.65	mg/L	1	04/22/2024 12:36	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.16		1	04/22/2024 12:36	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		106	mg/L	1	04/26/2024 14:46	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 14:46	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		358	mg/L	1	04/24/2024 9:16	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		158	mg/L	10	04/25/2024 22:12	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.20	mg/L	1	04/30/2024 11:01	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		20	mg/L	1	04/25/2024 22:07	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		59.1	mg/L	1	04/24/2024 16:27	221874
Magnesium	NELAP	0.0055	0.0500		17.0	mg/L	1	04/24/2024 16:27	221874
Potassium	NELAP	0.0400	0.100		2.03	mg/L	1	04/24/2024 16:27	221874
Sodium	NELAP	0.0180	0.0500		38.3	mg/L	1	04/24/2024 16:27	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 15:28	221874
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	04/24/2024 15:28	221874
Barium	NELAP	0.0007	0.0010		0.0234	mg/L	5	04/24/2024 15:28	221874
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 15:28	221874
Boron	NELAP	0.0092	0.0250		0.309	mg/L	5	04/24/2024 15:28	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 15:28	221874
Chromium	NELAP	0.0008	0.0015	J	0.0010	mg/L	5	04/24/2024 15:28	221874
Cobalt	NELAP	0.0001	0.0010	J	0.0009	mg/L	5	04/24/2024 15:28	221874
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 15:28	221874
Lithium	*	0.0015	0.0030		0.0039	mg/L	5	04/25/2024 14:55	221874
Molybdenum	NELAP	0.0006	0.0015	J	0.0009	mg/L	5	04/25/2024 14:55	221874
Selenium	NELAP	0.0006	0.0010		0.0013	mg/L	5	04/24/2024 15:28	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 15:28	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2

Work Order: 24041007
Report Date: 15-May-24

Lab ID: 24041007-010

Client Sample ID: G011

Matrix: GROUNDWATER

Collection Date: 04/22/2024 12:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020	J	0.00017	mg/L	1	05/01/2024 14:01	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-011
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G051D
Collection Date: 04/22/2024 15:02

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		42.42	ft	1	04/22/2024 15:02	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		39	NTU	1	04/22/2024 15:02	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		224	mV	1	04/22/2024 15:02	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		403	µS/cm	1	04/22/2024 15:02	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		17.1	°C	1	04/22/2024 15:02	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		3.37	mg/L	1	04/22/2024 15:02	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		5.40		1	04/22/2024 15:02	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		49	mg/L	1	04/26/2024 14:51	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 14:51	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		288	mg/L	1	04/24/2024 9:16	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		116	mg/L	10	04/25/2024 22:20	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10	J	0.08	mg/L	1	04/30/2024 11:04	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4	J	4	mg/L	1	04/25/2024 22:15	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		28.8	mg/L	1	04/24/2024 16:28	221874
Magnesium	NELAP	0.0055	0.0500		12.2	mg/L	1	04/24/2024 16:28	221874
Potassium	NELAP	0.0400	0.100		0.368	mg/L	1	04/24/2024 16:28	221874
Sodium	NELAP	0.0180	0.0500		33.0	mg/L	1	04/24/2024 16:28	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 15:34	221874
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	04/24/2024 15:34	221874
Barium	NELAP	0.0007	0.0010		0.0344	mg/L	5	04/24/2024 15:34	221874
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 15:34	221874
Boron	NELAP	0.0092	0.0250		0.784	mg/L	5	04/24/2024 15:34	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 15:34	221874
Chromium	NELAP	0.0007	0.0015		0.0018	mg/L	5	04/25/2024 15:01	221874
Cobalt	NELAP	0.0001	0.0010	J	0.0008	mg/L	5	04/24/2024 15:34	221874
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 15:34	221874
Lithium	*	0.0015	0.0030		0.0065	mg/L	5	04/25/2024 15:01	221874
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	04/25/2024 15:01	221874
Selenium	NELAP	0.0006	0.0010		0.0054	mg/L	5	04/24/2024 15:34	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 15:34	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-011
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G051D
Collection Date: 04/22/2024 15:02

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		< 0.00020	mg/L	1	05/01/2024 14:04	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-012
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24

Client Sample ID: G052D

Collection Date: 04/23/2024 9:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		27.20	ft	1	04/23/2024 9:19	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.7	NTU	1	04/23/2024 9:19	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-110	mV	1	04/23/2024 9:19	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		400	µS/cm	1	04/23/2024 9:19	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.2	°C	1	04/23/2024 9:19	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.50	mg/L	1	04/23/2024 9:19	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.37		1	04/23/2024 9:19	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		158	mg/L	1	04/26/2024 14:55	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 14:55	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		280	mg/L	1	04/24/2024 9:17	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		40	mg/L	1	04/25/2024 22:22	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.27	mg/L	1	04/30/2024 11:07	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		11	mg/L	1	04/25/2024 22:22	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100	S	45.5	mg/L	1	04/24/2024 16:38	221874
Magnesium	NELAP	0.0055	0.0500		14.6	mg/L	1	04/24/2024 16:38	221874
Potassium	NELAP	0.0400	0.100		0.722	mg/L	1	04/24/2024 16:38	221874
Sodium	NELAP	0.0180	0.0500		27.7	mg/L	1	04/24/2024 16:38	221874
<i>Matrix spike control limits are not applicable due to high sample/spike ratio.</i>									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 16:37	221874
Arsenic	NELAP	0.0004	0.0010		0.0012	mg/L	5	04/24/2024 16:37	221874
Barium	NELAP	0.0007	0.0010		0.259	mg/L	5	04/24/2024 16:37	221874
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 16:37	221874
Boron	NELAP	0.0092	0.025	J	0.018	mg/L	5	04/25/2024 15:12	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 16:37	221874
Chromium	NELAP	0.0008	0.0015	J	0.0011	mg/L	5	04/24/2024 16:37	221874
Cobalt	NELAP	0.0001	0.0010		0.0035	mg/L	5	04/24/2024 16:37	221874
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 16:37	221874
Lithium	*	0.0015	0.0030	J	0.0026	mg/L	5	04/25/2024 15:12	221874
Molybdenum	NELAP	0.0006	0.0015	J	0.0007	mg/L	5	04/25/2024 15:12	221874
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 16:37	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 16:37	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-012
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G052D
Collection Date: 04/23/2024 9:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020	J	0.00020	mg/L	1	05/01/2024 14:06	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND

JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-013
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G053D
Collection Date: 04/23/2024 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		36.03	ft	1	04/23/2024 10:30	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		37	NTU	1	04/23/2024 10:30	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		26	mV	1	04/23/2024 10:30	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		470	µS/cm	1	04/23/2024 10:30	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.5	°C	1	04/23/2024 10:30	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.16	mg/L	1	04/23/2024 10:30	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.39		1	04/23/2024 10:30	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		152	mg/L	1	04/26/2024 14:59	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 14:59	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		316	mg/L	1	04/24/2024 10:02	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		72	mg/L	5	04/25/2024 22:49	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.69	mg/L	1	04/30/2024 11:09	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		16	mg/L	1	04/25/2024 22:30	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		38.5	mg/L	1	04/24/2024 16:43	221874
Magnesium	NELAP	0.0055	0.0500		17.1	mg/L	1	04/24/2024 16:43	221874
Potassium	NELAP	0.0400	0.100		0.532	mg/L	1	04/24/2024 16:43	221874
Sodium	NELAP	0.0180	0.0500		46.5	mg/L	1	04/24/2024 16:43	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010	J	0.0008	mg/L	5	04/24/2024 16:20	221874
Arsenic	NELAP	0.0004	0.0010	J	0.0004	mg/L	5	04/24/2024 16:20	221874
Barium	NELAP	0.0007	0.0010		0.103	mg/L	5	04/24/2024 16:20	221874
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 16:20	221874
Boron	NELAP	0.0092	0.0250		0.377	mg/L	5	04/25/2024 15:07	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 16:20	221874
Chromium	NELAP	0.0007	0.0015		0.0029	mg/L	5	04/25/2024 15:07	221874
Cobalt	NELAP	0.0001	0.0010		0.0019	mg/L	5	04/25/2024 15:07	221874
Lead	NELAP	0.0006	0.0010	J	0.0009	mg/L	5	04/24/2024 16:20	221874
Lithium	*	0.0015	0.0030	J	0.0022	mg/L	5	04/25/2024 15:07	221874
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	04/25/2024 15:07	221874
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 16:20	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 16:20	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-013
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G053D
Collection Date: 04/23/2024 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00021	mg/L	1	05/01/2024 14:08	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND

JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-014
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G054D
Collection Date: 04/22/2024 14:04

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		37.91	ft	1	04/22/2024 14:04	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		10	NTU	1	04/22/2024 14:04	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-5	mV	1	04/22/2024 14:04	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		835	µS/cm	1	04/22/2024 14:04	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		16.6	°C	1	04/22/2024 14:04	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.13	mg/L	1	04/22/2024 14:04	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.61		1	04/22/2024 14:04	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		208	mg/L	1	04/26/2024 15:03	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 15:03	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		492	mg/L	1	04/24/2024 10:02	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		199	mg/L	10	04/25/2024 22:57	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.29	mg/L	1	04/30/2024 11:10	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		20	mg/L	1	04/25/2024 22:52	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		95.9	mg/L	1	04/24/2024 16:44	221874
Magnesium	NELAP	0.0055	0.0500		29.4	mg/L	1	04/24/2024 16:44	221874
Potassium	NELAP	0.0400	0.100		1.27	mg/L	1	04/24/2024 16:44	221874
Sodium	NELAP	0.0180	0.0500		48.6	mg/L	1	04/24/2024 16:44	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 16:26	221874
Arsenic	NELAP	0.0004	0.0010	J	0.0005	mg/L	5	04/24/2024 16:26	221874
Barium	NELAP	0.0007	0.0010		0.0620	mg/L	5	04/24/2024 16:26	221874
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 16:26	221874
Boron	NELAP	0.0092	0.0250		0.993	mg/L	5	04/30/2024 18:19	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 16:26	221874
Chromium	NELAP	0.0008	0.0015	J	0.0008	mg/L	5	04/24/2024 16:26	221874
Cobalt	NELAP	0.0001	0.0010		0.0087	mg/L	5	04/24/2024 16:26	221874
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 16:26	221874
Lithium	*	0.0015	0.0030	J	0.0030	mg/L	5	04/25/2024 16:22	221874
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	05/02/2024 10:05	221874
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 16:26	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 16:26	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-014
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G054D
Collection Date: 04/22/2024 14:04

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00022	mg/L	1	05/01/2024 14:11	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND

JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-015
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: XPW01_pore
Collection Date: 04/23/2024 12:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		14.68	ft	1	04/23/2024 12:55	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		3.6	NTU	1	04/23/2024 12:55	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-196	mV	1	04/23/2024 12:55	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		942	µS/cm	1	04/23/2024 12:55	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		19.8	°C	1	04/23/2024 12:55	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.29	mg/L	1	04/23/2024 12:55	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		8.48		1	04/23/2024 12:55	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		78	mg/L	1	04/26/2024 15:09	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		31	mg/L	1	04/26/2024 15:09	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		740	mg/L	1	04/24/2024 10:30	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		383	mg/L	10	04/25/2024 23:05	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.17	mg/L	1	04/30/2024 11:12	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		17	mg/L	1	04/25/2024 23:00	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		175	mg/L	1	04/25/2024 17:30	221253
Magnesium	NELAP	0.0055	0.0500		0.212	mg/L	1	04/25/2024 17:30	221253
Potassium	NELAP	0.400	1.00		40.4	mg/L	10	04/26/2024 11:23	221253
Sodium	NELAP	0.0180	0.0500		32.9	mg/L	1	04/25/2024 17:30	221253
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010	J	0.0008	mg/L	5	04/25/2024 17:14	221253
Arsenic	NELAP	0.0004	0.0010		0.0350	mg/L	5	04/25/2024 17:14	221253
Barium	NELAP	0.0007	0.0010		0.112	mg/L	5	04/25/2024 17:14	221253
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/25/2024 17:14	221253
Boron	NELAP	0.0092	0.0250		11.4	mg/L	5	04/30/2024 18:30	221253
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/25/2024 17:14	221253
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	04/25/2024 17:14	221253
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	04/25/2024 17:14	221253
Lead	NELAP	0.0006	0.0010		0.0021	mg/L	5	04/25/2024 17:14	221253
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	04/25/2024 17:14	221253
Molybdenum	NELAP	0.0012	0.0030		0.206	mg/L	10	05/02/2024 11:45	221253
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/25/2024 17:14	221253
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/30/2024 18:30	221253



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-015
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: XPW01_pore
Collection Date: 04/23/2024 12:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020	J	0.00019	mg/L	1	05/01/2024 14:13	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND

JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-016
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: XPW02_pore
Collection Date: 04/23/2024 13:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		4.55	ft	1	04/23/2024 13:35	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		4.6	NTU	1	04/23/2024 13:35	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-177	mV	1	04/23/2024 13:35	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		4810	µS/cm	1	04/23/2024 13:35	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		18.1	°C	1	04/23/2024 13:35	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.61	mg/L	1	04/23/2024 13:35	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		7.68		1	04/23/2024 13:35	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		126	mg/L	1	04/26/2024 15:15	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 15:15	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		3990	mg/L	1	04/24/2024 10:30	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	614	1000		2810	mg/L	100	04/25/2024 23:13	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.65	mg/L	1	04/30/2024 11:23	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		89	mg/L	10	04/25/2024 23:08	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		503	mg/L	1	04/25/2024 17:32	221253
Magnesium	NELAP	0.0055	0.0500		9.56	mg/L	1	04/25/2024 17:32	221253
Potassium	NELAP	0.400	1.00		27.2	mg/L	10	04/26/2024 11:24	221253
Sodium	NELAP	0.180	0.500		840	mg/L	10	04/26/2024 11:24	221253
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/25/2024 17:19	221253
Arsenic	NELAP	0.0004	0.0010		0.0382	mg/L	5	04/25/2024 17:19	221253
Barium	NELAP	0.0007	0.0010		0.0201	mg/L	5	04/25/2024 17:19	221253
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/25/2024 17:19	221253
Boron	NELAP	0.0092	0.0250		13.5	mg/L	5	04/30/2024 18:35	221253
Cadmium	NELAP	0.0002	0.0010	J	0.0004	mg/L	5	04/25/2024 17:19	221253
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	04/25/2024 17:19	221253
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	04/25/2024 17:19	221253
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/25/2024 17:19	221253
Lithium	*	0.0015	0.0030		0.0747	mg/L	5	04/25/2024 17:19	221253
Molybdenum	NELAP	0.0012	0.0030		0.784	mg/L	10	05/02/2024 11:49	221253
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/25/2024 17:19	221253
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/30/2024 18:35	221253



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-016
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: XPW02_pore
Collection Date: 04/23/2024 13:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00022	mg/L	1	05/01/2024 14:15	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND

JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-017
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: XPW03_pore
Collection Date: 04/23/2024 12:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		14.46	ft	1	04/23/2024 12:20	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		1.7	NTU	1	04/23/2024 12:20	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-112	mV	1	04/23/2024 12:20	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		641	µS/cm	1	04/23/2024 12:20	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		20.7	°C	1	04/23/2024 12:20	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		1.66	mg/L	1	04/23/2024 12:20	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		10.6		1	04/23/2024 12:20	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/30/2024 15:11	R346570
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		91	mg/L	1	04/30/2024 15:11	R346570
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		378	mg/L	1	04/24/2024 10:45	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		114	mg/L	10	04/26/2024 14:17	R346424
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.30	mg/L	1	04/30/2024 11:24	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		23	mg/L	1	04/25/2024 23:16	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		12.1	mg/L	1	04/25/2024 17:41	221253
Magnesium	NELAP	0.0055	0.050	J	0.017	mg/L	1	04/25/2024 17:41	221253
Potassium	NELAP	0.400	1.00		26.0	mg/L	10	04/26/2024 11:26	221253
Sodium	NELAP	0.0180	0.0500		103	mg/L	1	04/25/2024 17:41	221253
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		0.0094	mg/L	5	04/25/2024 17:25	221253
Arsenic	NELAP	0.0004	0.0010		0.469	mg/L	5	04/25/2024 17:25	221253
Barium	NELAP	0.0007	0.0010		0.0117	mg/L	5	04/25/2024 17:25	221253
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/25/2024 17:25	221253
Boron	NELAP	0.0092	0.0250		8.41	mg/L	5	04/30/2024 19:37	221253
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/25/2024 17:25	221253
Chromium	NELAP	0.0007	0.0015	J	0.0013	mg/L	5	04/25/2024 17:25	221253
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	04/25/2024 17:25	221253
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/25/2024 17:25	221253
Lithium	*	0.0015	0.0030		0.153	mg/L	5	04/25/2024 17:25	221253
Molybdenum	NELAP	0.0006	0.0015		0.160	mg/L	5	05/02/2024 9:57	221253
Selenium	NELAP	0.0006	0.0010		0.0335	mg/L	5	04/25/2024 17:25	221253
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/30/2024 19:37	221253



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-017
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: XPW03_pore
Collection Date: 04/23/2024 12:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		0.00023	mg/L	1	05/01/2024 14:18	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-018
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: XSG01
Collection Date: 04/22/2024 11:09

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		See comment	ft	1	04/22/2024 11:09	R346336
DTW Below Measuring Stick.									



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-019
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: YSG03
Collection Date: 04/22/2024 13:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		38.25	ft	1	04/22/2024 13:17	R346336



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-020
Matrix: AQUEOUS

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: Field Blank
Collection Date: 04/23/2024 12:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		2	mg/L	1	04/26/2024 15:20	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 15:20	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		< 20	mg/L	1	04/24/2024 10:45	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		< 10	mg/L	1	04/25/2024 23:24	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		< 0.10	mg/L	1	04/30/2024 11:27	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		< 4	mg/L	1	04/25/2024 23:24	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		< 0.100	mg/L	1	04/25/2024 17:42	221253
Magnesium	NELAP	0.0055	0.0500		< 0.0500	mg/L	1	04/25/2024 17:42	221253
Potassium	NELAP	0.0400	0.100		< 0.100	mg/L	1	04/25/2024 17:42	221253
Sodium	NELAP	0.0180	0.0500		< 0.0500	mg/L	1	04/25/2024 17:42	221253
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/25/2024 17:30	221253
Arsenic	NELAP	0.0004	0.0010		< 0.0010	mg/L	5	04/25/2024 17:30	221253
Barium	NELAP	0.0007	0.0010		< 0.0010	mg/L	5	04/25/2024 17:30	221253
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/25/2024 17:30	221253
Boron	NELAP	0.0092	0.025	J	0.019	mg/L	5	04/30/2024 19:42	221253
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/25/2024 17:30	221253
Chromium	NELAP	0.0007	0.0015		< 0.0015	mg/L	5	04/25/2024 17:30	221253
Cobalt	NELAP	0.0001	0.0010		< 0.0010	mg/L	5	04/25/2024 17:30	221253
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/25/2024 17:30	221253
Lithium	*	0.0015	0.0030		< 0.0030	mg/L	5	04/25/2024 17:30	221253
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	05/02/2024 10:01	221253
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/25/2024 17:30	221253
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/30/2024 19:42	221253
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00012	0.00020		< 0.00020	mg/L	1	05/01/2024 14:24	222008



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-021
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G052D Duplicate
Collection Date: 04/23/2024 9:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		27.20	ft	1	04/23/2024 9:19	R346336
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		2.7	NTU	1	04/23/2024 9:19	R346336
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		-110	mV	1	04/23/2024 9:19	R346336
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		400	µS/cm	1	04/23/2024 9:19	R346336
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		15.2	°C	1	04/23/2024 9:19	R346336
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		0.50	mg/L	1	04/23/2024 9:19	R346336
SW-846 9040B FIELD									
pH	*	0	1.00		6.37		1	04/23/2024 9:19	R346336
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO ₃)	NELAP	0	0		158	mg/L	1	04/26/2024 15:24	R346465
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO ₃)	NELAP	0	0		0	mg/L	1	04/26/2024 15:24	R346465
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		290	mg/L	1	04/24/2024 10:02	R346304
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		40	mg/L	1	04/25/2024 23:42	R346337
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		0.26	mg/L	1	04/30/2024 11:29	R346519
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		11	mg/L	1	04/25/2024 23:42	R346372
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0723	0.100		45.1	mg/L	1	04/24/2024 16:46	221874
Magnesium	NELAP	0.0055	0.0500		14.5	mg/L	1	04/24/2024 16:46	221874
Potassium	NELAP	0.0400	0.100		0.729	mg/L	1	04/24/2024 16:46	221874
Sodium	NELAP	0.0180	0.0500		27.9	mg/L	1	04/24/2024 16:46	221874
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 16:32	221874
Arsenic	NELAP	0.0004	0.0010	J	0.0009	mg/L	5	04/24/2024 16:32	221874
Barium	NELAP	0.0007	0.0010		0.255	mg/L	5	04/24/2024 16:32	221874
Beryllium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 16:32	221874
Boron	NELAP	0.0092	0.025	J	0.020	mg/L	5	04/30/2024 18:24	221874
Cadmium	NELAP	0.0002	0.0010		< 0.0010	mg/L	5	04/24/2024 16:32	221874
Chromium	NELAP	0.0008	0.0015	J	0.0012	mg/L	5	04/24/2024 16:32	221874
Cobalt	NELAP	0.0001	0.0010		0.0039	mg/L	5	04/24/2024 16:32	221874
Lead	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 16:32	221874
Lithium	*	0.0015	0.0030	J	0.0030	mg/L	5	04/25/2024 16:27	221874
Molybdenum	NELAP	0.0006	0.0015		< 0.0015	mg/L	5	05/02/2024 10:59	221874
Selenium	NELAP	0.0006	0.0010		< 0.0010	mg/L	5	04/24/2024 16:32	221874
Thallium	NELAP	0.0010	0.0020		< 0.0020	mg/L	5	04/24/2024 16:32	221874



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041007-021
Matrix: GROUNDWATER

Work Order: 24041007
Report Date: 15-May-24
Client Sample ID: G052D Duplicate
Collection Date: 04/23/2024 9:19

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	05/10/2024 9:26	222725



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2

Work Order: 24041007
Report Date: 15-May-24

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
24041007-001	G001D	Groundwater	2	04/22/2024 12:01
24041007-002	G002D	Groundwater	2	04/22/2024 12:59
24041007-003	G003	Groundwater	2	04/22/2024 14:26
24041007-004	G005	Groundwater	2	04/23/2024 11:18
24041007-005	G006	Groundwater	2	04/23/2024 15:17
24041007-006	G007	Groundwater	2	04/23/2024 11:30
24041007-007	G008	Groundwater	2	04/23/2024 9:51
24041007-008	G009	Groundwater	2	04/23/2024 8:42
24041007-009	G010	Groundwater	2	04/22/2024 15:16
24041007-010	G011	Groundwater	2	04/22/2024 12:36
24041007-011	G051D	Groundwater	2	04/22/2024 15:02
24041007-012	G052D	Groundwater	2	04/23/2024 9:19
24041007-013	G053D	Groundwater	2	04/23/2024 10:30
24041007-014	G054D	Groundwater	2	04/22/2024 14:04
24041007-015	XPW01_pore	Groundwater	2	04/23/2024 12:55
24041007-016	XPW02_pore	Groundwater	2	04/23/2024 13:35
24041007-017	XPW03_pore	Groundwater	2	04/23/2024 12:20
24041007-018	XSG01	Groundwater	1	04/22/2024 11:09
24041007-019	YSG03	Groundwater	1	04/22/2024 13:17
24041007-020	Field Blank	Aqueous	2	04/23/2024 12:30
24041007-021	G052D Duplicate	Groundwater	2	04/23/2024 9:19



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

STANDARD METHODS 2510 B FIELD

Batch	R346336	SampType:	LCS	Units		µS/cm						Date
SampID:		LCS-1										Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	04/22/2024		
Spec. Conductance, Field	*	0		1410	1412	0	100.1	90	110	04/22/2024		

Batch	R346336	SampType:	LCS	Units		µS/cm						Date
SampID:		LCS-2										Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Spec. Conductance, Field	*	0		1410	1412	0	100.0	90	110	04/23/2024		
Spec. Conductance, Field	*	0		1410	1412	0	99.8	90	110	04/23/2024		

SW-846 9040B FIELD

Batch	R346336	SampType:	LCS	Units								Date
SampID:		LCS-1										Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
pH	*	1.00		7.00	7.000	0	100.0	98.57	101.4	04/22/2024		
pH	*	1.00		7.08	7.000	0	101.1	98.57	101.4	04/22/2024		

Batch	R346336	SampType:	LCS	Units								Date
SampID:		LCS-2										Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
pH	*	1.00		7.01	7.000	0	100.1	98.57	101.4	04/23/2024		
pH	*	1.00		7.08	7.000	0	101.1	98.57	101.4	04/23/2024		

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch	R346304	SampType:	MBLK	Units		mg/L						Date
SampID:		MBLK										Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	04/24/2024		
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	04/24/2024		

Batch	R346304	SampType:	LCS	Units		mg/L						Date
SampID:		LCS										Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit			
Total Dissolved Solids		20		942	1000	0	94.2	90	110	04/24/2024		
Total Dissolved Solids		20		924	1000	0	92.4	90	110	04/24/2024		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch	R346304	SampType:	DUP	Units	mg/L	RPD Limit	10					
SampID:	24041007-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		326				310.0	5.03	04/24/2024		

Batch	R346304	SampType:	DUP	Units	mg/L	RPD Limit	10					
SampID:	24041007-015ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		720				740.0	2.74	04/24/2024		

SW-846 9036 (TOTAL)

Batch	R346337	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	04/25/2024		

Batch	R346337	SampType:	LCS	Units	mg/L							
SampID:	ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed		
Sulfate		10		19	20.00	0	96.0	90	110	04/25/2024		

Batch	R346337	SampType:	MS	Units	mg/L							
SampID:	24040983-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed		
Sulfate		50		221	100.0	129.4	91.8	90	110	04/26/2024		

Batch	R346337	SampType:	MSD	Units	mg/L	RPD Limit	10					
SampID:	24040983-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		50		225	100.0	129.4	95.5	221.2	1.70	04/26/2024		

Batch	R346337	SampType:	MS	Units	mg/L							
SampID:	24041007-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed		
Sulfate		20		79	40.00	42.25	92.0	85	115	04/25/2024		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

SW-846 9036 (TOTAL)

Batch R346337		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24041007-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			20		80	40.00	42.25	94.1	79.05	1.04	04/25/2024

Batch R346337		SampType: MS		Units mg/L							
SampID: 24041285-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		34	20.00	15.45	93.4	85	115	04/26/2024	

Batch R346337		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24041285-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			10		34	20.00	15.45	95.1	34.14	0.96	04/26/2024

Batch R346337		SampType: MS		Units mg/L							
SampID: 24041708-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		200		680	400.0	305.9	93.5	85	115	04/25/2024	

Batch R346337		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24041708-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			200		679	400.0	305.9	93.2	679.9	0.20	04/25/2024

Batch R346337		SampType: MS		Units mg/L							
SampID: 24041863-009AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		85	40.00	49.46	88.6	85	115	04/25/2024	

Batch R346337		SampType: MSD		Units mg/L		RPD Limit 10					
SampID: 24041863-009AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			20		87	40.00	49.46	95.1	84.90	3.00	04/25/2024

Batch R346337		SampType: MS		Units mg/L							
SampID: 24041957-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50	E	252	100.0	159.2	92.6	90	110	04/25/2024	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

SW-846 9036 (TOTAL)

Batch R346337		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24041957-001AMSD											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Sulfate			50	E	255	100.0	159.2	95.7	251.8	1.24	04/25/2024

Batch R346424		SampType: MBLK		Units mg/L							
SampID: ICB/MBLK											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		10		< 10	6.140	0	0	-100	100	04/26/2024	

Batch R346424		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	93.2	90	110	04/26/2024

Batch R346424		SampType: MS		Units mg/L							
SampID: 24041863-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		169	100.0	73.98	94.6	85	115	04/26/2024	

Batch R346424		SampType: MSD	Units mg/L					RPD Limit 10			
SampID: 24041863-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			50		172	100.0	73.98	98.5	168.6	2.24	04/26/2024

Batch R346424		SampType: MS		Units mg/L							
SampID: 24041863-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		424	200.0	236.3	93.8	85	115	04/26/2024	

Batch R346424		SampType: MSD	Units mg/L					RPD Limit 10			
SampID: 24041863-006AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			100		439	200.0	236.3	101.2	424.0	3.41	04/26/2024

Batch R346424		SampType: MS		Units mg/L							
SampID: 24041980-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		99	40.00	63.81	88.2	85	115	04/26/2024	



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

SW-846 9036 (TOTAL)

Batch R346424		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24041980-003BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			20	E	100	40.00	63.81	91.0	99.08	1.13	04/26/2024

Batch R346424		SampType: MS		Units mg/L							
SampID: 24041980-003CMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Sulfate		20	E	102	40.00	63.66	95.0	85	115	04/26/2024	

Batch R346424		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24041980-003CMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			20	E	100	40.00	63.66	90.9	101.7	1.66	04/26/2024

Batch R346424		SampType: MS		Units mg/L							
SampID: 24042058-006FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		175	100.0	84.37	90.7	85	115	04/26/2024	

Batch R346424		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24042058-006FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			50		174	100.0	84.37	89.8	175.1	0.55	04/26/2024

Batch R346424		SampType: MS		Units mg/L							
SampID: 24042147-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10	S	40	20.00	21.93	89.6	90	110	04/26/2024	

Batch R346424		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24042147-002AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate			10		40	20.00	21.93	92.0	39.85	1.17	04/26/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

SW-846 9214 (TOTAL)

Batch R346519		SampType: MBLK		Units mg/L							
SampID: MBLK											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	04/30/2024	

Batch R346519		SampType: LCS		Units mg/L							
SampID: LCS											Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed	
Fluoride		0.10		1.01	1.000	0	101.0	90	110	04/30/2024	

Batch R346519		SampType: MS		Units mg/L							
SampID: 24041007-007AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.60	2.000	0.2830	116.0	75	125	04/30/2024	

Batch R346519		SampType: MSD		Units mg/L					RPD Limit 15		
SampID: 24041007-007AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.52	2.000	0.2830	111.8	2.603	3.28	04/30/2024

Batch R346519		SampType: MS		Units mg/L							
SampID: 24041007-015AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.21	2.000	0.1710	101.8	75	125	04/30/2024	

Batch R346519		SampType: MSD		Units mg/L					RPD Limit 15		
SampID: 24041007-015AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.35	2.000	0.1710	109.0	2.208	6.27	04/30/2024

Batch R346519		SampType: MS		Units mg/L							
SampID: 24041007-021AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.52	2.000	0.2640	112.6	75	125	04/30/2024	

Batch R346519		SampType: MSD		Units mg/L					RPD Limit 15		
SampID: 24041007-021AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.41	2.000	0.2640	107.3	2.517	4.34	04/30/2024



Quality Control Results

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Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

SW-846 9214 (TOTAL)

Batch R346519		SampType: MS		Units mg/L						
SampID: 24041957-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.76	2.000	0.5750	109.3	75	125	04/30/2024

Batch R346519		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24041957-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.56	2.000	0.5750	99.0	2.761	7.71	04/30/2024

Batch R346519		SampType: MS		Units mg/L							
SampID: 24042185-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.80	2.000	0.6310	108.6	75	125	04/30/2024	

Batch R346519		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24042185-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride			0.10		2.75	2.000	0.6310	106.0	2.804	1.94	04/30/2024

SW-846 9251 (TOTAL)

Batch R346372		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	04/25/2024	

Batch R346372		SampType: LCS		Units mg/L							
SampID: ICB/LCS											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride			4		20	20.00	0	98.2	90	110	04/25/2024

Batch R346372		SampType: MS		Units mg/L							
SampID: 24041007-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		33	20.00	15.78	87.6	85	115	04/25/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

SW-846 9251 (TOTAL)

Batch R346372		SampType: MSD		Units mg/L		RPD Limit 15					
SampID: 24041007-001AMSD											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Chloride		4		33	20.00	15.78	88.4	33.30	0.45	04/25/2024	

Batch R346372		SampType: MS		Units mg/L							
SampID: 24041285-001AMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Chloride		4		28	20.00	10.65	88.4	85	115	04/26/2024	

Batch R346372		SampType: MSD		Units mg/L					RPD Limit 15		
SampID: 24041285-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			4		29	20.00	10.65	89.8	28.32	1.05	04/26/2024

Batch R346372		SampType: MS		Units mg/L							
SampID: 24041863-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		39	20.00	20.61	89.8	85	115	04/25/2024	

Batch R346372		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24041863-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Chloride			4		39	20.00	20.61	90.0	38.57	0.10	04/25/2024

Batch R346372		SampType: MS		Units mg/L							
SampID: 24041863-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		22	20.00	3.420	92.0	85	115	04/25/2024	

Batch R346372		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24041863-006AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			4		22	20.00	3.420	92.8	21.81	0.73	04/25/2024

Batch R346372		SampType: MS		Units mg/L							
SampID: 24041863-009AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		23	20.00	4.520	92.4	85	115	04/25/2024	



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Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

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SW-846 9251 (TOTAL)

Batch R346372		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24041863-009AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			4		23	20.00	4.520	92.0	23.00	0.39	04/25/2024

Batch R346372		SampType: MS		Units mg/L							
SampID: 24041957-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		119	100.0	27.06	91.8	85	115	04/25/2024	

Batch R346372		SampType: MSD		Units mg/L					RPD Limit 15		
SampID: 24041957-001AMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			20		120	100.0	27.06	93.3	118.9	1.20	04/25/2024

Batch R346436		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	04/26/2024	

Batch R346436		SampType: LCS		Units mg/L							
SampID: ICB/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		20	20.00	0	99.9	90	110	04/26/2024	

Batch R346436		SampType: MS		Units mg/L							
SampID: 24042058-006FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		148	100.0	61.53	86.4	85	115	04/26/2024	

Batch R346436		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24042058-006FMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride			20		147	100.0	61.53	85.7	147.9	0.47	04/26/2024

Batch R346436		SampType: MS		Units mg/L							
SampID: 24042147-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		24	20.00	5.460	93.5	85	115	04/26/2024	



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Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

SW-846 9251 (TOTAL)

Batch R346436		SampType: MSD		Units mg/L				RPD Limit 15			
SampleID: 24042147-002AMSD											Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Chloride			4		24	20.00	5.460	93.4	24.15	0.08	04/26/2024

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

Batch 221253		SampType: MBLK		Units mg/L						
SampID: MBLK-221253										
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	04/25/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	04/25/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	04/25/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	04/25/2024

Batch 221253		SampType: LCS		Units mg/L							
SampID: LCS-221253											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100		2.64	2.500	0	105.6	85	115	04/25/2024	
Magnesium		0.0500		2.44	2.500	0	97.7	85	115	04/25/2024	
Potassium		0.100		2.68	2.500	0	107.2	85	115	04/25/2024	
Sodium		0.0500		2.74	2.500	0	109.5	85	115	04/25/2024	

Batch	221253	SampType:	MS	Units mg/L						
SampID: 24041007-005BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	93.8	2.500	85.98	314.0	75	125	04/25/2024
Magnesium		0.0500	S	27.8	2.500	23.71	163.2	75	125	04/25/2024
Potassium		0.100		5.46	2.500	2.646	112.6	75	125	04/25/2024
Sodium		0.0500	S	49.3	2.500	44.79	181.6	75	125	04/25/2024

Batch	221253	SampType:	MSD	Units				mg/L	RPD Limit			20
SampID: 24041007-005BMSD												
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Calcium			0.100	S	90.7	2.500	85.98	187.6	93.83	3.43	04/25/2024	
Magnesium			0.0500	S	26.9	2.500	23.71	129.8	27.79	3.06	04/25/2024	
Potassium			0.100		5.37	2.500	2.646	108.9	5.462	1.70	04/25/2024	
Sodium			0.0500		47.8	2.500	44.79	120.8	49.33	3.13	04/25/2024	



Quality Control Results

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Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

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

Batch 221874 SampType: MBLK Units mg/L

SampID: MBLK-221874

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	04/24/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	04/26/2024
Magnesium		0.0500		< 0.0500	0.0055	0	0	-100	100	04/24/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	04/24/2024
Potassium		0.100		< 0.100	0.0400	0	0	-100	100	04/26/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	04/24/2024
Sodium		0.0500		< 0.0500	0.0180	0	0	-100	100	04/26/2024

Batch 221874 SampType: LCS Units mg/L

SampID: LCS-221874

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		2.52	2.500	0	100.9	85	115	04/24/2024
Magnesium		0.0500		2.50	2.500	0	99.9	85	115	04/26/2024
Magnesium		0.0500		2.52	2.500	0	101.0	85	115	04/24/2024
Potassium		0.100		2.56	2.500	0	102.5	85	115	04/24/2024
Potassium		0.100		2.63	2.500	0	105.2	85	115	04/26/2024
Sodium		0.0500		2.64	2.500	0	105.6	85	115	04/26/2024
Sodium		0.0500		2.51	2.500	0	100.3	85	115	04/24/2024

Batch 221874 SampType: MS Units mg/L

SampID: 24041007-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		48.1	2.500	45.19	115.6	75	125	04/24/2024
Magnesium		0.0500		17.7	2.500	15.09	104.0	75	125	04/24/2024
Potassium		0.100		3.98	2.500	1.331	106.1	75	125	04/24/2024
Sodium		0.0500		35.8	2.500	33.18	106.0	75	125	04/24/2024

Batch 221874 SampType: MSD Units mg/L

SampID: 24041007-003BMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		47.7	2.500	45.19	99.6	48.08	0.84	04/24/2024
Magnesium		0.0500		17.6	2.500	15.09	101.8	17.69	0.31	04/24/2024
Potassium		0.100		4.00	2.500	1.331	106.7	3.984	0.40	04/24/2024
Sodium		0.0500		35.5	2.500	33.18	92.0	35.83	0.98	04/24/2024



Quality Control Results

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Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

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

Batch 221874		SampType: MS		Units mg/L							
SampID: 24041007-012BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Calcium		0.100	S	49.0	2.500	45.46	143.6	75	125		
Magnesium		0.0500		17.5	2.500	14.60	115.8	75	125		
Potassium		0.100		3.34	2.500	0.7220	104.9	75	125		
Sodium		0.0500		30.1	2.500	27.69	95.2	75	125		

Batch 221874		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24041007-012BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Calcium		0.100		48.0	2.500	45.46	100.4	49.05	2.23		
Magnesium		0.0500		17.1	2.500	14.60	101.5	17.49	2.07		
Potassium		0.100		3.34	2.500	0.7220	104.6	3.345	0.26		
Sodium		0.0500		29.8	2.500	27.69	83.6	30.07	0.97		

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

Batch 221253		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-221253											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	04/25/2024	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	04/25/2024	
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	04/25/2024	
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	04/25/2024	
Boron	*	0.0250		< 0.0250	0.0093	0	0	-100	100	04/25/2024	
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	04/25/2024	
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	04/25/2024	
Cobalt		0.0010		< 0.0010	0.0001	0	0	-100	100	04/25/2024	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	04/25/2024	
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	04/25/2024	
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	05/02/2024	
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	04/25/2024	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	04/25/2024	



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Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

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

Batch 221253		SampType: LCS		Units mg/L						
SampID: LCS-221253										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.475	0.5000	0	95.1	85	115	04/25/2024
Arsenic		0.0010		0.473	0.5000	0	94.7	85	115	04/25/2024
Barium		0.0010		1.89	2.000	0	94.7	85	115	04/25/2024
Beryllium		0.0010		0.0489	0.0500	0	97.7	85	115	04/25/2024
Boron	*	0.0250		0.544	0.5000	0	108.7	85	115	04/30/2024
Cadmium		0.0010		0.0481	0.0500	0	96.1	85	115	04/25/2024
Chromium		0.0015		0.197	0.2000	0	98.7	85	115	04/25/2024
Cobalt		0.0010		0.476	0.5000	0	95.3	85	115	04/25/2024
Lead		0.0010		0.465	0.5000	0	93.1	85	115	04/25/2024
Lithium	*	0.0030		0.505	0.5000	0	100.9	85	115	04/25/2024
Molybdenum		0.0015		0.471	0.5000	0	94.1	80	120	05/03/2024
Selenium		0.0010		0.499	0.5000	0	99.8	85	115	04/25/2024
Thallium		0.0020		0.255	0.2500	0	102.1	85	115	04/30/2024

Batch 221253		SampType: MS		Units mg/L							
SampID: 24041007-005BMS											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Antimony		0.0010		0.493	0.5000	0	98.6	75	125	04/25/2024	
Arsenic		0.0010		0.494	0.5000	0.001988	98.3	75	125	04/25/2024	
Barium		0.0010		2.06	2.000	0.04527	100.8	75	125	04/25/2024	
Beryllium		0.0010		0.0504	0.0500	0.0003039	100.3	75	125	04/25/2024	
Boron		0.0250	S	3.80	0.5000	3.166	125.9	75	125	04/30/2024	
Cadmium		0.0010		0.0489	0.0500	0	97.9	75	125	04/25/2024	
Chromium		0.0015		0.210	0.2000	0.008378	101.0	75	125	04/25/2024	
Cobalt		0.0010		0.477	0.5000	0.002116	95.0	75	125	04/25/2024	
Lead		0.0010		0.480	0.5000	0.002429	95.6	75	125	04/25/2024	
Lithium	*	0.0030		0.526	0.5000	0.006189	104.0	75	125	04/25/2024	
Molybdenum		0.0015		0.420	0.5000	0	84.1	75	125	05/06/2024	
Selenium		0.0010		0.520	0.5000	0	104.0	75	125	04/25/2024	
Thallium		0.0020		0.267	0.2500	0	106.6	75	125	04/30/2024	



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Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

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

Batch	221253	SampType:	MSD	Units				mg/L			RPD Limit		20
SampID: 24041007-005BMSD													Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Antimony			0.0010		0.470	0.5000	0	94.0	0.4931	4.75		04/25/2024	
Arsenic			0.0010		0.477	0.5000	0.001988	95.1	0.4937	3.37		04/25/2024	
Barium			0.0010		1.92	2.000	0.04527	93.6	2.061	7.20		04/25/2024	
Beryllium			0.0010		0.0490	0.0500	0.0003039	97.3	0.05043	2.93		04/25/2024	
Boron			0.0250		3.61	0.5000	3.166	87.9	3.795	5.14		04/30/2024	
Cadmium			0.0010		0.0473	0.0500	0	94.7	0.04893	3.32		04/25/2024	
Chromium			0.0015		0.203	0.2000	0.008378	97.5	0.2103	3.30		04/25/2024	
Cobalt			0.0010		0.467	0.5000	0.002116	92.9	0.4773	2.21		04/25/2024	
Lead			0.0010		0.470	0.5000	0.002429	93.5	0.4803	2.19		04/25/2024	
Lithium		*	0.0030		0.505	0.5000	0.006189	99.8	0.5262	4.12		04/25/2024	
Molybdenum			0.0015		0.431	0.5000	0	86.3	0.4203	2.61		05/06/2024	
Selenium			0.0010		0.494	0.5000	0	98.7	0.5200	5.18		04/25/2024	
Thallium			0.0020		0.257	0.2500	0	102.7	0.2665	3.74		04/30/2024	

Batch	221874	SampType:	MBLK	Units mg/L						
SampID: MBLK-221874										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	04/24/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	04/24/2024
Barium		0.0010		< 0.0010	0.0007	0	0	-100	100	04/24/2024
Beryllium		0.0010		< 0.0010	0.0002	0	0	-100	100	04/24/2024
Boron		0.0250		< 0.0250	0.0093	0	0	-100	100	04/24/2024
Cadmium		0.0010		< 0.0010	0.0001	0	0	-100	100	04/24/2024
Chromium		0.0015		< 0.0015	0.0007	0	0	-100	100	04/24/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	04/24/2024
Lithium	*	0.0030		< 0.0030	0.0015	0	0	-100	100	04/24/2024
Molybdenum		0.0015		< 0.0015	0.0006	0	0	-100	100	04/25/2024
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	04/24/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	04/24/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

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

Batch 221874		SampType: LCS		Units mg/L							
SampID: LCS-221874											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Antimony		0.0010		0.492	0.5000	0	98.3	80	120	04/24/2024	
Arsenic		0.0010		0.507	0.5000	0	101.5	80	120	04/24/2024	
Barium		0.0010		2.03	2.000	0	101.5	80	120	04/24/2024	
Beryllium		0.0010		0.0516	0.0500	0	103.1	80	120	04/24/2024	
Boron		0.0250		0.524	0.5000	0	104.9	80	120	04/24/2024	
Cadmium		0.0010		0.0506	0.0500	0	101.2	80	120	04/24/2024	
Chromium		0.0015		0.204	0.2000	0	102.2	80	120	04/24/2024	
Lead		0.0010		0.484	0.5000	0	96.7	80	120	04/24/2024	
Lithium	*	0.0030		0.527	0.5000	0	105.4	80	120	04/25/2024	
Molybdenum		0.0015		0.443	0.5000	0	88.7	80	120	04/25/2024	
Selenium		0.0010		0.526	0.5000	0	105.1	80	120	04/24/2024	
Thallium		0.0020		0.239	0.2500	0	95.5	80	120	04/24/2024	

Batch 221874		SampType: MS		Units mg/L						
SampID: 24041007-003BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.520	0.5000	0	104.0	75	125	04/24/2024
Arsenic		0.0010		0.513	0.5000	0.001596	102.2	75	125	04/24/2024
Barium		0.0010		2.12	2.000	0.06466	102.8	75	125	04/24/2024
Beryllium		0.0010		0.0492	0.0500	0.0002841	97.9	75	125	04/24/2024
Boron		0.0250		0.840	0.5000	0.2798	112.0	75	125	04/30/2024
Cadmium		0.0010		0.0523	0.0500	0	104.6	75	125	04/24/2024
Chromium		0.0015		0.214	0.2000	0.008533	102.8	75	125	04/24/2024
Cobalt		0.0010		0.482	0.5000	0.002277	95.8	75	125	04/24/2024
Lead		0.0010		0.496	0.5000	0.001672	98.8	75	125	04/24/2024
Lithium	*	0.0030		0.522	0.5000	0.002267	104.0	75	125	04/25/2024
Molybdenum		0.0015		0.389	0.5000	0	77.8	75	125	05/02/2024
Selenium		0.0010		0.513	0.5000	0	102.6	75	125	04/24/2024
Thallium		0.0020		0.245	0.2500	0.001552	97.3	75	125	04/24/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

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

Batch 221874		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 24041007-003BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.504	0.5000	0	100.8	0.5198	3.06	04/24/2024
Arsenic		0.0010		0.505	0.5000	0.001596	100.7	0.5126	1.51	04/24/2024
Barium		0.0010		2.10	2.000	0.06466	101.9	2.121	0.86	04/24/2024
Beryllium		0.0010		0.0497	0.0500	0.0002841	98.8	0.04924	0.94	04/24/2024
Boron		0.0250		0.819	0.5000	0.2798	107.9	0.8400	2.51	04/30/2024
Cadmium		0.0010		0.0511	0.0500	0	102.2	0.05230	2.33	04/24/2024
Chromium		0.0015		0.221	0.2000	0.008533	106.0	0.2141	2.95	04/24/2024
Cobalt		0.0010		0.491	0.5000	0.002277	97.8	0.4815	2.03	04/24/2024
Lead		0.0010		0.493	0.5000	0.001672	98.2	0.4956	0.61	04/24/2024
Lithium	*	0.0030		0.507	0.5000	0.002267	101.0	0.5224	2.94	04/25/2024
Molybdenum		0.0015		0.385	0.5000	0	76.9	0.3892	1.18	05/02/2024
Selenium		0.0010		0.504	0.5000	0	100.7	0.5129	1.84	04/24/2024
Thallium		0.0020		0.245	0.2500	0.001552	97.5	0.2449	0.22	04/24/2024

Batch 221874		SampType: MS		Units mg/L						
SampID: 24041007-012BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.501	0.5000	0	100.2	75	125	04/24/2024
Arsenic		0.0010		0.503	0.5000	0.001178	100.3	75	125	04/24/2024
Barium		0.0010		2.27	2.000	0.2586	100.6	75	125	04/24/2024
Beryllium		0.0010		0.0505	0.0500	0	101.0	75	125	04/24/2024
Boron		0.0250		0.526	0.5000	0.01852	101.6	75	125	04/25/2024
Cadmium		0.0010		0.0503	0.0500	0	100.7	75	125	04/24/2024
Chromium		0.0015		0.205	0.2000	0.001076	102.1	75	125	04/24/2024
Cobalt		0.0010		0.489	0.5000	0.003463	97.2	75	125	04/24/2024
Lead		0.0010		0.500	0.5000	0	100.0	75	125	04/24/2024
Lithium	*	0.0030		0.516	0.5000	0.002604	102.8	75	125	04/25/2024
Molybdenum		0.0015		0.437	0.5000	0.0007122	87.3	75	125	04/25/2024
Selenium		0.0010		0.493	0.5000	0	98.5	75	125	04/24/2024
Thallium		0.0020		0.220	0.2500	0	88.0	75	125	04/24/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

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

Batch 221874		SampType: MSD		Units mg/L				RPD Limit 20		
SampID: 24041007-012BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.513	0.5000	0	102.6	0.5011	2.36	04/24/2024
Arsenic		0.0010		0.511	0.5000	0.001178	101.9	0.5027	1.57	04/24/2024
Barium		0.0010		2.32	2.000	0.2586	102.9	2.270	2.02	04/24/2024
Beryllium		0.0010		0.0500	0.0500	0	100.1	0.05051	0.94	04/24/2024
Boron		0.0250		0.554	0.5000	0.01852	107.0	0.5263	5.08	04/25/2024
Cadmium		0.0010		0.0510	0.0500	0	102.0	0.05035	1.32	04/24/2024
Chromium		0.0015		0.206	0.2000	0.001076	102.4	0.2053	0.29	04/24/2024
Cobalt		0.0010		0.490	0.5000	0.003463	97.4	0.4894	0.20	04/24/2024
Lead		0.0010		0.495	0.5000	0	98.9	0.5000	1.07	04/24/2024
Lithium	*	0.0030		0.527	0.5000	0.002604	105.0	0.5164	2.12	04/25/2024
Molybdenum		0.0015		0.443	0.5000	0.0007122	88.5	0.4371	1.39	04/25/2024
Selenium		0.0010		0.506	0.5000	0	101.2	0.4926	2.70	04/24/2024
Thallium		0.0020		0.234	0.2500	0	93.6	0.2201	6.15	04/24/2024

SW-846 7470A (TOTAL)

Batch 222008		SampType: MBLK		Units mg/L						
SampID: MBLK-222008										
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	04/26/2024

Batch 222008		SampType: LCS		Units mg/L							
SampID: LCS-222008											
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	85	115	04/26/2024	

Batch 222008		SampType: MS		Units mg/L						
SampID: 24041663-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00510	0.0050	0	102.0	75	125	04/26/2024

Batch 222008		SampType: MSD		Units mg/L				RPD Limit 15			
SampID: 24041663-001BMSD											
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury			0.00020		0.00546	0.0050	0	109.1	0.005102	6.69	04/26/2024



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

SW-846 7470A (TOTAL)

Batch 222008		SampType: MS		Units mg/L							Date
SampID: 24041664-001BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00511	0.0050	0	102.1	75	125	04/26/2024	

Batch 222008		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 24041664-001BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Mercury		0.00020		0.00509	0.0050	0	101.9	0.005105	0.21	04/26/2024		

Batch 222013		SampType: MBLK		Units mg/L							Date
SampID: MBLK-222013											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	04/26/2024	

Batch 222013		SampType: LCS		Units mg/L							Date
SampID: LCS-222013											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00503	0.0050	0	100.6	85	115	04/26/2024	

Batch 222013		SampType: MS		Units mg/L							Date
SampID: 24041007-021BMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00559	0.0050	0.0006545	98.7	75	125	05/01/2024	

Batch 222013		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 24041007-021BMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Mercury		0.00020		0.00554	0.0050	0.0006545	97.8	0.005591	0.83	05/01/2024		

Batch 222013		SampType: MS		Units mg/L							Date
SampID: 24041939-001AMS											Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00518	0.0050	0.0001131	101.3	75	125	05/01/2024	

Batch 222013		SampType: MSD		Units mg/L							RPD Limit 15	Date
SampID: 24041939-001AMSD												Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Mercury		0.00020		0.00511	0.0050	0.0001131	99.9	0.005176	1.28	05/01/2024		



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

SW-846 7470A (TOTAL)

Batch 222725		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-222725											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100		

Batch 222725		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-222725											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Mercury		0.00020		0.00473	0.0050	0	94.6	85	115		
05/10/2024											



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041007

Client Project: JOP-24Q2

Report Date: 15-May-24

Carrier: Brett Gillihan

Received By: PRS

Completed by:

Reviewed by:

On:

On:

23-Apr-24

24-Apr-24

Paul Schultz

Ellie Hopkins

Pages to follow:

Chain of custody

4

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C **5.7**

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 #96651. LM - pschultz - 4/23/2024 4:13:17 PM

Samples were received on 4/24/2024 at 1833 on ice [5.2C - LTG#9]. - pschultz - 4/24/2024 8:11:22 AM

pH strip #96651. - pschultz - 4/24/2024 8:13:11 AM

Additional Nitric Acid (97291) was needed in G006 upon arrival at the laboratory. - pschultz - 4/24/2024 8:13:28 AM

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

phv: 96651 um 4/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 2 of 2	
Company: Vistra Corp-Joppa		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 2100 Portland Road		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Joppa, IL 62953		Roger Faughn - roger.faughn@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:			
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)																Residual Chlorine (Y/N)	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX DRINKING WATER DW WATER WT WASTE WATER WW P PRODUCT SL SOL/SOLID OL OIL WP WIPE AR AIR OT OTHER TS			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		JOP-257-401	JOP-845-401																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Bret Gillman		DATE Signed (MM/DD/YY): 4-23-24	
SIGNATURE of SAMPLER: <i>Bret Gillman</i>			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 2	
Company: Vistra Corp-Joppa		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:	
Address: 2100 Portland Road		Copy To: Sam Davies; samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Joppa, IL 62953		Roger Faughn - roger.faughn@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:			
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPI)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No./ Lab I.D.	
		DRINKING WATER	WATER			WASTE WATER	PRODUCT			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																
		DW	WT			WW	P			SL	OL	WP	AR	OT	TS	DATE	TIME		DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME			
1	G001D			WT	G				2	1	1						X	X															24041007-001
2	G002D			WT	G				2	1	1						X	X														24041007-002	
3	G003			WT	G				2	1	1						X	X														24041007-003	
4	G005			WT	G				2	1	1						X	X														24041007-004	
5	G006			WT	G	4/23/24	1517		2	1	1						X	X														24041007-005	
6	G007			WT	G				2	1	1						X	X														24041007-006	
7	G008			WT	G				2	1	1						X	X														24041007-007	
8	G009			WT	G				2	1	1						X	X														24041007-008	
9	G010			WT	G				2	1	1						X	X														24041007-009	
10	G011			WT	G				2	1	1						X	X														24041007-010	
11	G051D			WT	G				2	1	1						X	X														24041007-011	
12	G052D			WT	G				2	1	1						X	X														24041007-012	
13	G053D			WT	G				2	1	1						X	X														24041007-013	
14	G054D			WT	G				2	1	1						X	X														24041007-014	
15	XPW01_pore			WT	G	4/23/24	1255		2	1	1							X														24041007-015	
16	XPW02_pore			WT	G	4/23/24	1335		2	1	1							X														24041007-016	

JOP-24Q2 Rev 0

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE CONDITIONS

Daniel Crump

4-23

18:33

Paul Z. Harty

4/23/24

1833

-52

2

z

PHV06651
Added HNO3 (8791) to sample G006
PS 4/24

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

Tracy Pardo

Daniel Crump

DATE Signed (MM/DD/YYYY):

4/23/24

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

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

Page: 2 of 2

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Tracy Carroll					
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 4/23/24				

May 29, 2024

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



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: JOP-24Q2

WorkOrder: 24041008

Dear Eric Bauer:

TEKLAB, INC received 16 samples on 4/23/2024 6:33:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,



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



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041008

Client Project: JOP-24Q2

Report Date: 29-May-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Sample Summary	23
Receiving Check List	24
Chain of Custody	Appended

Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041008

Client Project: JOP-24Q2

Report Date: 29-May-24

Abbr Definition

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)



Definitions

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041008

Client Project: JOP-24Q2

Report Date: 29-May-24

Qualifiers

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



Case Narrative

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2

Work Order: 24041008
Report Date: 29-May-24

Cooler Receipt Temp: 5.7 °C

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

Equipment Blanks were not needed.

Ra226/228 analyses were performed by Eurofins St. Louis. See attached report for results and QC.

This report was revised on May 29, 2024 per Eric Bauer's request. The reason for the revision is to correct collection times for G001D, G002D, G003, G005, G051D, and Field Blank per field file. Please replace report dated May 22, 2024 with this report. EAH 5/29/24

Locations

Collinsville

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

Collinsville Air

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

Springfield

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

Chicago

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

Kansas City

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



Accreditations

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041008

Client Project: JOP-24Q2

Report Date: 29-May-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041008-001
Matrix: GROUNDWATER

Work Order: 24041008
Report Date: 29-May-24
Client Sample ID: G001D
Collection Date: 04/22/2024 12:01

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:32	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll	Work Order: 24041008
Client Project: JOP-24Q2	Report Date: 29-May-24
Lab ID: 24041008-002	Client Sample ID: G002D
Matrix: GROUNDWATER	Collection Date: 04/22/2024 12:59

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:33	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041008-003
Matrix: GROUNDWATER

Work Order: 24041008
Report Date: 29-May-24
Client Sample ID: G003
Collection Date: 04/22/2024 14:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:33	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041008-004
Matrix: GROUNDWATER

Work Order: 24041008
Report Date: 29-May-24
Client Sample ID: G005
Collection Date: 04/23/2024 11:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:33	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041008-005
Matrix: GROUNDWATER
Work Order: 24041008
Report Date: 29-May-24
Client Sample ID: G006
Collection Date: 04/23/2024 15:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:33	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041008-006
Matrix: GROUNDWATER

Work Order: 24041008
Report Date: 29-May-24
Client Sample ID: G007
Collection Date: 04/23/2024 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:33	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041008-007
Matrix: GROUNDWATER

Work Order: 24041008
Report Date: 29-May-24
Client Sample ID: G008
Collection Date: 04/23/2024 9:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:33	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll	Work Order: 24041008
Client Project: JOP-24Q2	Report Date: 29-May-24
Lab ID: 24041008-008	Client Sample ID: G009
Matrix: GROUNDWATER	Collection Date: 04/23/2024 8:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:33	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041008-009
Matrix: GROUNDWATER

Work Order: 24041008
Report Date: 29-May-24
Client Sample ID: G010
Collection Date: 04/22/2024 15:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:34	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041008-010
Matrix: GROUNDWATER

Work Order: 24041008
Report Date: 29-May-24
Client Sample ID: G011
Collection Date: 04/22/2024 12:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:34	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll	Work Order: 24041008
Client Project: JOP-24Q2	Report Date: 29-May-24
Lab ID: 24041008-011	Client Sample ID: G051D
Matrix: GROUNDWATER	Collection Date: 04/22/2024 15:02

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:34	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041008-012
Matrix: GROUNDWATER

Work Order: 24041008
Report Date: 29-May-24
Client Sample ID: G052D
Collection Date: 04/23/2024 9:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:34	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401
<http://www.teklabinc.com/>

Client: Ramboll	Work Order: 24041008
Client Project: JOP-24Q2	Report Date: 29-May-24
Lab ID: 24041008-013	Client Sample ID: G053D
Matrix: GROUNDWATER	Collection Date: 04/23/2024 10:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:34	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041008-014
Matrix: GROUNDWATER

Work Order: 24041008
Report Date: 29-May-24

Client Sample ID: G054D

Collection Date: 04/22/2024 14:04

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:35	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041008-015
Matrix: AQUEOUS

Work Order: 24041008
Report Date: 29-May-24
Client Sample ID: Field Blank
Collection Date: 04/23/2024 12:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:35	R347659



Laboratory Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2
Lab ID: 24041008-016
Matrix: GROUNDWATER

Work Order: 24041008
Report Date: 29-May-24
Client Sample ID: G052D Duplicate
Collection Date: 04/23/2024 9:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		See Attached		1	05/20/2024 12:35	R347659



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: JOP-24Q2

Work Order: 24041008
Report Date: 29-May-24

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
24041008-001	G001D	Groundwater	1	04/22/2024 12:01
24041008-002	G002D	Groundwater	1	04/22/2024 12:59
24041008-003	G003	Groundwater	1	04/22/2024 14:26
24041008-004	G005	Groundwater	1	04/23/2024 11:18
24041008-005	G006	Groundwater	1	04/23/2024 15:17
24041008-006	G007	Groundwater	1	04/23/2024 11:30
24041008-007	G008	Groundwater	1	04/23/2024 9:51
24041008-008	G009	Groundwater	1	04/23/2024 8:42
24041008-009	G010	Groundwater	1	04/22/2024 15:16
24041008-010	G011	Groundwater	1	04/22/2024 12:36
24041008-011	G051D	Groundwater	1	04/22/2024 15:02
24041008-012	G052D	Groundwater	1	04/23/2024 9:19
24041008-013	G053D	Groundwater	1	04/23/2024 10:30
24041008-014	G054D	Groundwater	1	04/22/2024 14:04
24041008-015	Field Blank	Aqueous	1	04/23/2024 12:30
24041008-016	G052D Duplicate	Groundwater	1	04/23/2024 9:19



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 24041008

Client Project: JOP-24Q2

Report Date: 29-May-24

Carrier: Brett Gillihan

Received By: NR

Completed by:

On:

23-Apr-24

Nick Reed

Reviewed by:

On:

24-Apr-24

Ellie Hopkins

Pages to follow:

Chain of custody

4

Extra pages included

24

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 5.7

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.

G052D Duplicate collection date per G052D marking. pH strip #96651. - nickreed - 4/23/2024 4:41:16 PM

Samples were received on 4/24/2024 at 18:33 on ice [5.2C - LTG#9]. - pschultz - 4/24/2024 8:16:32 AM

pH strip #96651. - pschultz - 4/24/2024 8:17:04 AM

Additional Nitric Acid (97291) was needed in G006 upon arrival at the laboratory. - pschultz - 4/24/2024 8:17:13 AM

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

Page: 1 of 2

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

[illegible]

Date for sample 6052D was taken from parent sample 24

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Brett Gillman</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YY): <i>4-23-24</i>				

Confidential

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Page: 2 of 2

Requested Analysis Filtered (Y/N)

Samples	Intact (Y/N)
1	Y
2	Y
3	Y
4	Y
5	Y
6	Y
7	Y
8	Y
9	Y
10	Y
11	Y
12	Y
13	Y
14	Y
15	Y
16	Y
17	Y
18	Y
19	Y
20	Y
21	Y
22	Y
23	Y
24	Y
25	Y
26	Y
27	Y
28	Y
29	Y
30	Y
31	Y
32	Y
33	Y
34	Y
35	Y
36	Y
37	Y
38	Y
39	Y
40	Y
41	Y
42	Y
43	Y
44	Y
45	Y
46	Y
47	Y
48	Y
49	Y
50	Y
51	Y
52	Y
53	Y
54	Y
55	Y
56	Y
57	Y
58	Y
59	Y
60	Y
61	Y
62	Y
63	Y
64	Y
65	Y
66	Y
67	Y
68	Y
69	Y
70	Y
71	Y
72	Y
73	Y
74	Y
75	Y
76	Y
77	Y
78	Y
79	Y
80	Y
81	Y
82	Y
83	Y
84	Y
85	Y
86	Y
87	Y
88	Y
89	Y
90	Y
91	Y
92	Y
93	Y
94	Y
95	Y
96	Y
97	Y
98	Y
99	Y
100	Y

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 2	
Company: Vistra Corp-Joppa		Report To: Brian Voelker		Attention: Brian Voelker		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location STATE: IL	
Address: 2100 Portland Road		Copy To: Sam Davies: samantha.davies@vistracorp.com		Company Name: Vistra Corp			
Joppa, IL 62953		Roger Faughn - roger.faughn@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:			
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:			

ITEM #	Section D Required Client Information	Valid matrix codes DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT SOL/SOLID SL OL WP AR OT WIPE TS AIR OTHER	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		JOP-257-401	JOP-845-401																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

PH 9/4/24
Added HNO₃ (9/29/24) to sample 6006
RS 9/12/24

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Tracy Carroll	SIGNATURE of SAMPLER: [Signature]				

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

Page: 2 of 2

REGULATORY AGENCY

Site Location

ILRequested Analysis Filtered (Y/N)Project No./ Lab I.D.

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATIONDATE _____TIMEACCEPTED BY / AFFILIATIONDATE _____TIME

SAMPLE CONDITIONS

JOP-24Q2 Rev 0

Daniel Ciemp

4-23

18.33

Paul & Betty

4/23/24

3350
$$Z$$

100

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed
(MM/DD/YY)

4/23/24

Temp is 60°Received on
Ice (Y/N)Custody
Sealed
Cooler (Y/N)Samples
intact (Y/N)

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 5/29/2024 12:09:35 PM Revision 1

JOB DESCRIPTION

Radium-226 and Radium-228
24041008

JOB NUMBER

160-53883-1

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Revision 1

Authorized for release by
Erika Jordan, Project Manager
erika.jordan@et.eurofinsus.com
(314)298-8566



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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1

Client: TekLab, Inc
Project: Radium-226 and Radium-228

Job ID: 160-53883-1

Eurofins St. Louis

CASE NARRATIVE

Client: TekLab, Inc

Project: 24041008

Report Number: 160-53883-1 Revision 1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition, all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method.

Eurofins Environment Testing attests to the validity of the laboratory data generated by Eurofins facilities reported herein. All analyses performed by Eurofins Environment Testing facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins Environment Testing's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Calculations are performed before rounding to avoid round-off errors in calculated results.

Proper preservation was noted for the methods performed on these samples, unless otherwise detailed below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client.

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

The matrix for the Method Blank and LCS/LCSD is as close to the samples as can be reasonably achieved. Detailed information can be found in the most current revision of the associated SOP.

The method blank (MB) z-score is within limits, unless stated otherwise below.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.

Reference the chain of custody and receipt report for any variations on receipt conditions.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

Revision

The report being provided is a revision of the original report sent on 5/21/2024. The report (revision 1) is being revised in order to correct collection times that were inaccurate on the original chain-of-custody (COC). A revised COC is included with the revised report.

Receipt

The samples were received on 4/25/2024 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved. The temperature of the cooler at receipt time was 19.2°C.

Method 903.0 - Radium-226 (GFPC)

Samples 24041008-001 (160-53883-1), 24041008-002 (160-53883-2), 24041008-003 (160-53883-3), 24041008-004 (160-53883-4), 24041008-005 (160-53883-5), 24041008-006 (160-53883-6), 24041008-007 (160-53883-7), 24041008-008

Eurofins St. Louis

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1

Client: TekLab, Inc
Project: Radium-226 and Radium-228

Job ID: 160-53883-1 (Continued)

Eurofins St. Louis

(160-53883-8), 24041008-009 (160-53883-9), 24041008-010 (160-53883-10), 24041008-011 (160-53883-11), 24041008-012 (160-53883-12), 24041008-013 (160-53883-13), 24041008-014 (160-53883-14), 24041008-015 (160-53883-15) and 24041008-016 (160-53883-16) were analyzed for Radium-226 (GFPC). The samples were prepared on 4/29/2024 and analyzed on 5/21/2024.

No analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method 904.0 - Radium-228 (GFPC)

Samples 24041008-001 (160-53883-1), 24041008-002 (160-53883-2), 24041008-003 (160-53883-3), 24041008-004 (160-53883-4), 24041008-005 (160-53883-5), 24041008-006 (160-53883-6), 24041008-007 (160-53883-7), 24041008-008 (160-53883-8), 24041008-009 (160-53883-9), 24041008-010 (160-53883-10), 24041008-011 (160-53883-11), 24041008-012 (160-53883-12), 24041008-013 (160-53883-13), 24041008-014 (160-53883-14), 24041008-015 (160-53883-15) and 24041008-016 (160-53883-16) were analyzed for Radium-228 (GFPC). The samples were prepared on 4/29/2024 and analyzed on 5/20/2024.

The detection goal was not met for the following samples due to the reduced sample volume attributed to the presence of matrix interferences: 24041008-006 (160-53883-6) and 24041008-011 (160-53883-11). 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.

Method Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Samples 24041008-001 (160-53883-1), 24041008-002 (160-53883-2), 24041008-003 (160-53883-3), 24041008-004 (160-53883-4), 24041008-005 (160-53883-5), 24041008-006 (160-53883-6), 24041008-007 (160-53883-7), 24041008-008 (160-53883-8), 24041008-009 (160-53883-9), 24041008-010 (160-53883-10), 24041008-011 (160-53883-11), 24041008-012 (160-53883-12), 24041008-013 (160-53883-13), 24041008-014 (160-53883-14), 24041008-015 (160-53883-15) and 24041008-016 (160-53883-16) were analyzed for Combined Radium-226 and Radium-228. The samples were analyzed on 5/21/2024.

No analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins St. Louis

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice ☐ Preserved in: ☐ Lab ☐ Field

Teklab Inc

5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp:

Sampler:

QC Level:

Comments: **Please issue reports and invoices via email only**

Please analyze for Radium 226/228 per your usual methods.

Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.

Samples collected from an IL site.

Project# 24041008

Contact: Elizabeth Hurley

Email: EHurley@TekLabInc.com

Requested Due Date: Standard TAT

Billing/PO: 36179

Phone: (618) 344-1004 ext. 33
Collection times corrected per field file/s. EAH 5/29/24

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.

Radium 226/228

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	24041008-001	4/22/2024 10:59	HNO3	Groundwater
	24041008-002	4/22/2024 12:19	HNO3	Groundwater
	24041008-003	4/22/2024 13:13	HNO3	Groundwater
	24041008-004	4/23/2024 11:24	HNO3	Groundwater
	24041008-005	4/23/2024 15:17	HNO3	Groundwater
	24041008-006	4/23/2024 11:30	HNO3	Groundwater
	24041008-007	4/23/2024 09:51	HNO3	Groundwater
	24041008-008	4/23/2024 08:42	HNO3	Groundwater
	24041008-009	4/22/2024 15:16	HNO3	Groundwater
	24041008-010	4/22/2024 12:36	HNO3	Groundwater
	24041008-011	4/22/2024 14:40	HNO3	Groundwater

Collected at 1201.*

Collected at 1259.*

Collected at 1426.*

Collected at 1118.*

Collected at 1502. EAH 5/29/24*

*Relinquished By	Date/Time	Received By	Date/Time
<i>Paul E. Hurley</i>	4/24/24		

Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled?	YES ☐	NO ☒	With: ☐ Ice ☐ Blue Ice	Preserved in: ☐ Lab ☐ Field
--------------------------	------------------------------	--	--	---

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234Cooler Temp: Sampler: QC Level:

Project#

24041008

Contact:

Elizabeth Hurley

Email:

EHurley@TeklabInc.com

Requested Due Date:

Standard TAT

Billing/PO:

36179

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.

Radium 226/228

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
	24041008-001	4/22/2024 10:59	HNO3	Groundwater
	24041008-002	4/22/2024 12:19	HNO3	Groundwater
	24041008-003	4/22/2024 13:13	HNO3	Groundwater
	24041008-004	4/23/2024 11:24	HNO3	Groundwater
	24041008-005	4/23/2024 15:17	HNO3	Groundwater
	24041008-006	4/23/2024 11:30	HNO3	Groundwater
	24041008-007	4/23/2024 09:51	HNO3	Groundwater
	24041008-008	4/23/2024 08:42	HNO3	Groundwater
	24041008-009	4/22/2024 15:16	HNO3	Groundwater
	24041008-010	4/22/2024 12:36	HNO3	Groundwater
	24041008-011	4/22/2024 14:40	HNO3	Groundwater



160-53883 Chain of Custody

*Relinquished By	Date/Time	Received By	Date/Time
<i>Paul Z...</i>	4/24/24 1447	<i>Mike D...</i>	4-24-24 1447
	4-24-24 1400	<i>Silvia W...</i>	4/24/24 1400

pg 2 of 2

Are the samples chilled?	YES	NO	With: ☒ Ice ☐ Blue Ice	Preserved in: ☐ Lab ☐ Field
--------------------------	-----	----	---	---

QC Level:	3
Sampler:	Teklab
Cooler Temp:	

Comments:	Please Issue reports and invoices via email only
Please analyze for Radium 226/228 per your usual methods.	
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.	
Samples collected from an IL site.	

Phone: (618) 344-1004 ext. 33

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

[illegible]

Relinquished By	Date/Time	Received By	Date/Time
<i>John D. Smith</i>	4/24/24 1:00	<i>John D. Smith</i>	4/24/24 1:47
		<i>Simon Warringer</i>	4/24/24 1:00

Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-53883-1

SDG Number: 24041008

Login Number: 53883

List Number: 1

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
JOPPA-400
SDG: 24041008

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency
None = None
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-53883-1	24041008-001	Water	04/22/24 12:01	04/25/24 16:00
160-53883-2	24041008-002	Water	04/22/24 12:59	04/25/24 16:00
160-53883-3	24041008-003	Water	04/22/24 14:26	04/25/24 16:00
160-53883-4	24041008-004	Water	04/23/24 11:18	04/25/24 16:00
160-53883-5	24041008-005	Water	04/23/24 15:17	04/25/24 16:00
160-53883-6	24041008-006	Water	04/23/24 11:30	04/25/24 16:00
160-53883-7	24041008-007	Water	04/23/24 09:51	04/25/24 16:00
160-53883-8	24041008-008	Water	04/23/24 08:42	04/25/24 16:00
160-53883-9	24041008-009	Water	04/22/24 15:16	04/25/24 16:00
160-53883-10	24041008-010	Water	04/22/24 12:36	04/25/24 16:00
160-53883-11	24041008-011	Water	04/22/24 15:02	04/25/24 16:00
160-53883-12	24041008-012	Water	04/23/24 09:19	04/25/24 16:00
160-53883-13	24041008-013	Water	04/23/24 10:30	04/25/24 16:00
160-53883-14	24041008-014	Water	04/22/24 14:04	04/25/24 16:00
160-53883-15	24041008-015	Water	04/23/24 12:30	04/25/24 16:00
160-53883-16	24041008-016	Water	04/23/24 09:19	04/25/24 16:00

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Client Sample ID: 24041008-001

Lab Sample ID: 160-53883-1

Date Collected: 04/22/24 12:01

Matrix: Water

Date Received: 04/25/24 16:00

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	0.651		0.393	0.397	1.00	0.538	pCi/L	04/29/24 08:38	05/21/24 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.3		30 - 110					04/29/24 08:38	05/21/24 07:41	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	1.39		0.705	0.717	1.00	0.981	pCi/L	04/29/24 08:42	05/20/24 12:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.3		30 - 110					04/29/24 08:42	05/20/24 12:32	1
Y Carrier	79.3		30 - 110					04/29/24 08:42	05/20/24 12:32	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		0.807	0.820	5.00	0.981	pCi/L		05/21/24 08:59	1

Client Sample ID: 24041008-002

Lab Sample ID: 160-53883-2

Date Collected: 04/22/24 12:59

Matrix: Water

Date Received: 04/25/24 16:00

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		0.190	0.192	1.00	0.251	pCi/L	04/29/24 08:38	05/21/24 07:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		30 - 110					04/29/24 08:38	05/21/24 07:35	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	0.507	U	0.359	0.362	1.00	0.544	pCi/L	04/29/24 08:42	05/20/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		30 - 110					04/29/24 08:42	05/20/24 12:33	1
Y Carrier	83.0		30 - 110					04/29/24 08:42	05/20/24 12:33	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	0.813		0.406	0.410	5.00	0.544	pCi/L		05/21/24 08:59	1

Eurofins St. Louis

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Client Sample ID: 24041008-003

Lab Sample ID: 160-53883-3

Date Collected: 04/22/24 14:26

Matrix: Water

Date Received: 04/25/24 16:00

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	0.309	U	0.256	0.258	1.00	0.376	pCi/L	04/29/24 08:38	05/21/24 07:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.4		30 - 110					04/29/24 08:38	05/21/24 07:35	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	1.35		0.629	0.641	1.00	0.833	pCi/L	04/29/24 08:42	05/20/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.4		30 - 110					04/29/24 08:42	05/20/24 12:33	1
Y Carrier	81.5		30 - 110					04/29/24 08:42	05/20/24 12:33	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	1.66		0.679	0.691	5.00	0.833	pCi/L		05/21/24 08:59	1

Client Sample ID: 24041008-004

Lab Sample ID: 160-53883-4

Date Collected: 04/23/24 11:18

Matrix: Water

Date Received: 04/25/24 16:00

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	0.549		0.308	0.312	1.00	0.403	pCi/L	04/29/24 08:38	05/21/24 07:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		30 - 110					04/29/24 08:38	05/21/24 07:36	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	1.41		0.529	0.545	1.00	0.635	pCi/L	04/29/24 08:42	05/20/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		30 - 110					04/29/24 08:42	05/20/24 12:33	1
Y Carrier	86.7		30 - 110					04/29/24 08:42	05/20/24 12:33	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	1.96		0.612	0.628	5.00	0.635	pCi/L		05/21/24 08:59	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Client Sample ID: 24041008-005

Lab Sample ID: 160-53883-5

Date Collected: 04/23/24 15:17

Matrix: Water

Date Received: 04/25/24 16:00

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	0.781		0.367	0.373	1.00	0.432	pCi/L	04/29/24 08:38	05/21/24 07:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.6		30 - 110					04/29/24 08:38	05/21/24 07:36	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	0.942		0.611	0.617	1.00	0.903	pCi/L	04/29/24 08:42	05/20/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.6		30 - 110					04/29/24 08:42	05/20/24 12:33	1
Y Carrier	81.9		30 - 110					04/29/24 08:42	05/20/24 12:33	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	1.72		0.713	0.721	5.00	0.903	pCi/L		05/21/24 08:59	1

Client Sample ID: 24041008-006

Lab Sample ID: 160-53883-6

Date Collected: 04/23/24 11:30

Matrix: Water

Date Received: 04/25/24 16:00

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	0.784		0.404	0.410	1.00	0.483	pCi/L	04/29/24 08:38	05/21/24 07:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		30 - 110					04/29/24 08:38	05/21/24 07:36	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	1.88	G	0.871	0.888	1.00	1.19	pCi/L	04/29/24 08:42	05/20/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		30 - 110					04/29/24 08:42	05/20/24 12:33	1
Y Carrier	81.9		30 - 110					04/29/24 08:42	05/20/24 12:33	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	2.66		0.960	0.978	5.00	1.19	pCi/L		05/21/24 08:59	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Client Sample ID: 24041008-007

Lab Sample ID: 160-53883-7

Date Collected: 04/23/24 09:51

Matrix: Water

Date Received: 04/25/24 16:00

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	0.214	U	0.216	0.216	1.00	0.336	pCi/L	04/29/24 08:38	05/21/24 09:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		30 - 110					04/29/24 08:38	05/21/24 09:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.44		0.571	0.586	1.00	0.714	pCi/L	04/29/24 08:42	05/20/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		30 - 110					04/29/24 08:42	05/20/24 12:33	1
Y Carrier	79.3		30 - 110					04/29/24 08:42	05/20/24 12:33	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	1.66		0.610	0.625	5.00	0.714	pCi/L		05/21/24 08:59	1

Client Sample ID: 24041008-008

Lab Sample ID: 160-53883-8

Date Collected: 04/23/24 08:42

Matrix: Water

Date Received: 04/25/24 16:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.161	U	0.228	0.228	1.00	0.386	pCi/L	04/29/24 08:38	05/21/24 09:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		30 - 110					04/29/24 08:38	05/21/24 09:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.786	U	0.538	0.542	1.00	0.797	pCi/L	04/29/24 08:42	05/20/24 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		30 - 110					04/29/24 08:42	05/20/24 12:33	1
Y Carrier	80.4		30 - 110					04/29/24 08:42	05/20/24 12:33	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	0.948		0.584	0.588	5.00	0.797	pCi/L		05/21/24 08:59	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Client Sample ID: 24041008-009

Lab Sample ID: 160-53883-9

Date Collected: 04/22/24 15:16

Matrix: Water

Date Received: 04/25/24 16:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.117	U	0.230	0.231	1.00	0.409	pCi/L	04/29/24 08:38	05/21/24 09:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		30 - 110					04/29/24 08:38	05/21/24 09:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.33		0.556	0.570	1.00	0.712	pCi/L	04/29/24 08:42	05/20/24 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		30 - 110					04/29/24 08:42	05/20/24 12:34	1
Y Carrier	83.7		30 - 110					04/29/24 08:42	05/20/24 12:34	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	1.45		0.602	0.615	5.00	0.712	pCi/L		05/21/24 08:59	1

Client Sample ID: 24041008-010

Lab Sample ID: 160-53883-10

Date Collected: 04/22/24 12:36

Matrix: Water

Date Received: 04/25/24 16:00

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	0.118	U	0.184	0.184	1.00	0.316	pCi/L	04/29/24 08:38	05/21/24 09:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.7		30 - 110					04/29/24 08:38	05/21/24 09:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.675	U	0.463	0.467	1.00	0.702	pCi/L	04/29/24 08:42	05/20/24 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.7		30 - 110					04/29/24 08:42	05/20/24 12:34	1
Y Carrier	80.0		30 - 110					04/29/24 08:42	05/20/24 12:34	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	0.793		0.498	0.502	5.00	0.702	pCi/L		05/21/24 15:41	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Client Sample ID: 24041008-011

Lab Sample ID: 160-53883-11

Date Collected: 04/22/24 15:02

Matrix: Water

Date Received: 04/25/24 16:00

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	0.0996	U	0.285	0.285	1.00	0.528	pCi/L	04/29/24 08:38	05/21/24 09:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	60.2		30 - 110					04/29/24 08:38	05/21/24 09:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.25	G	0.745	0.753	1.00	1.07	pCi/L	04/29/24 08:42	05/20/24 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	60.2		30 - 110					04/29/24 08:42	05/20/24 12:34	1
Y Carrier	81.5		30 - 110					04/29/24 08:42	05/20/24 12:34	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	1.35		0.798	0.805	5.00	1.07	pCi/L		05/21/24 15:41	1

Client Sample ID: 24041008-012

Lab Sample ID: 160-53883-12

Date Collected: 04/23/24 09:19

Matrix: Water

Date Received: 04/25/24 16:00

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	0.524		0.236	0.240	1.00	0.256	pCi/L	04/29/24 08:38	05/21/24 09:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.7		30 - 110					04/29/24 08:38	05/21/24 09:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.644	U	0.437	0.441	1.00	0.657	pCi/L	04/29/24 08:42	05/20/24 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.7		30 - 110					04/29/24 08:42	05/20/24 12:34	1
Y Carrier	80.7		30 - 110					04/29/24 08:42	05/20/24 12:34	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	1.17		0.497	0.502	5.00	0.657	pCi/L		05/21/24 15:41	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Client Sample ID: 24041008-013

Lab Sample ID: 160-53883-13

Date Collected: 04/23/24 10:30

Matrix: Water

Date Received: 04/25/24 16:00

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	0.220	0.221	1.00	0.385	pCi/L	04/29/24 08:38	05/21/24 09:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.5		30 - 110					04/29/24 08:38	05/21/24 09:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.182	U	0.495	0.496	1.00	0.880	pCi/L	04/29/24 08:42	05/20/24 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.5		30 - 110					04/29/24 08:42	05/20/24 12:34	1
Y Carrier	86.0		30 - 110					04/29/24 08:42	05/20/24 12:34	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	0.318	U	0.542	0.543	5.00	0.880	pCi/L		05/21/24 15:41	1

Client Sample ID: 24041008-014

Lab Sample ID: 160-53883-14

Date Collected: 04/22/24 14:04

Matrix: Water

Date Received: 04/25/24 16:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111	U	0.139	0.140	1.00	0.230	pCi/L	04/29/24 08:38	05/21/24 09:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		30 - 110					04/29/24 08:38	05/21/24 09:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.316	U	0.387	0.388	1.00	0.641	pCi/L	04/29/24 08:42	05/20/24 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		30 - 110					04/29/24 08:42	05/20/24 12:35	1
Y Carrier	81.9		30 - 110					04/29/24 08:42	05/20/24 12:35	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.427	U	0.411	0.412	5.00	0.641	pCi/L		05/21/24 15:41	1

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Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Client Sample ID: 24041008-015

Lab Sample ID: 160-53883-15

Date Collected: 04/23/24 12:30

Matrix: Water

Date Received: 04/25/24 16:00

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	0.0167	U	0.116	0.116	1.00	0.237	pCi/L	04/29/24 08:38	05/21/24 09:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					04/29/24 08:38	05/21/24 09:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.296	U	0.356	0.357	1.00	0.587	pCi/L	04/29/24 08:42	05/20/24 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					04/29/24 08:42	05/20/24 12:35	1
Y Carrier	80.7		30 - 110					04/29/24 08:42	05/20/24 12:35	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.313	U	0.374	0.375	5.00	0.587	pCi/L		05/21/24 15:41	1

Client Sample ID: 24041008-016

Lab Sample ID: 160-53883-16

Date Collected: 04/23/24 09:19

Matrix: Water

Date Received: 04/25/24 16:00

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	0.502		0.277	0.281	1.00	0.366	pCi/L	04/29/24 08:38	05/21/24 09:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.9		30 - 110					04/29/24 08:38	05/21/24 09:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.778		0.434	0.440	1.00	0.616	pCi/L	04/29/24 08:42	05/20/24 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.9		30 - 110					04/29/24 08:42	05/20/24 12:35	1
Y Carrier	81.5		30 - 110					04/29/24 08:42	05/20/24 12:35	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.28		0.515	0.522	5.00	0.616	pCi/L		05/21/24 15:41	1

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QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
145 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-659066/1-A
Matrix: Water
Analysis Batch: 662737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 659066

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01164	U	0.163	0.163	1.00	0.331	pCi/L	04/29/24 08:38	05/21/24 07:41	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110					04/29/24 08:38	05/21/24 07:41	1

Lab Sample ID: LCS 160-659066/2-A
Matrix: Water
Analysis Batch: 662737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 659066

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	10.89		1.31	1.00	0.229	pCi/L	96	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	92.1		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-659067/1-A
Matrix: Water
Analysis Batch: 662409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 659067

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.9131		0.395	0.404	1.00	0.519	pCi/L	04/29/24 08:42	05/20/24 12:32	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110					04/29/24 08:42	05/20/24 12:32	1
Y Carrier	83.7		30 - 110					04/29/24 08:42	05/20/24 12:32	1

Lab Sample ID: LCS 160-659067/2-A
Matrix: Water
Analysis Batch: 662409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 659067

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		8.93	11.09		1.45	1.00	0.570	pCi/L	124	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	92.1		30 - 110							
Y Carrier	85.2		30 - 110							

QC Association Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Rad

Prep Batch: 659066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-53883-1	24041008-001	Total/NA	Water	PrecSep-21	
160-53883-2	24041008-002	Total/NA	Water	PrecSep-21	
160-53883-3	24041008-003	Total/NA	Water	PrecSep-21	
160-53883-4	24041008-004	Total/NA	Water	PrecSep-21	
160-53883-5	24041008-005	Total/NA	Water	PrecSep-21	
160-53883-6	24041008-006	Total/NA	Water	PrecSep-21	
160-53883-7	24041008-007	Total/NA	Water	PrecSep-21	
160-53883-8	24041008-008	Total/NA	Water	PrecSep-21	
160-53883-9	24041008-009	Total/NA	Water	PrecSep-21	
160-53883-10	24041008-010	Total/NA	Water	PrecSep-21	
160-53883-11	24041008-011	Total/NA	Water	PrecSep-21	
160-53883-12	24041008-012	Total/NA	Water	PrecSep-21	
160-53883-13	24041008-013	Total/NA	Water	PrecSep-21	
160-53883-14	24041008-014	Total/NA	Water	PrecSep-21	
160-53883-15	24041008-015	Total/NA	Water	PrecSep-21	
160-53883-16	24041008-016	Total/NA	Water	PrecSep-21	
MB 160-659066/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-659066/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 659067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-53883-1	24041008-001	Total/NA	Water	PrecSep_0	
160-53883-2	24041008-002	Total/NA	Water	PrecSep_0	
160-53883-3	24041008-003	Total/NA	Water	PrecSep_0	
160-53883-4	24041008-004	Total/NA	Water	PrecSep_0	
160-53883-5	24041008-005	Total/NA	Water	PrecSep_0	
160-53883-6	24041008-006	Total/NA	Water	PrecSep_0	
160-53883-7	24041008-007	Total/NA	Water	PrecSep_0	
160-53883-8	24041008-008	Total/NA	Water	PrecSep_0	
160-53883-9	24041008-009	Total/NA	Water	PrecSep_0	
160-53883-10	24041008-010	Total/NA	Water	PrecSep_0	
160-53883-11	24041008-011	Total/NA	Water	PrecSep_0	
160-53883-12	24041008-012	Total/NA	Water	PrecSep_0	
160-53883-13	24041008-013	Total/NA	Water	PrecSep_0	
160-53883-14	24041008-014	Total/NA	Water	PrecSep_0	
160-53883-15	24041008-015	Total/NA	Water	PrecSep_0	
160-53883-16	24041008-016	Total/NA	Water	PrecSep_0	
MB 160-659067/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-659067/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
Job ID: 160-53883-1
SDG: 24041008

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba					
Lab Sample ID	Client Sample ID	(30-110)					
160-53883-1	24041008-001	71.3					
160-53883-2	24041008-002	91.4					
160-53883-3	24041008-003	73.4					
160-53883-4	24041008-004	85.0					
160-53883-5	24041008-005	71.6					
160-53883-6	24041008-006	84.0					
160-53883-7	24041008-007	88.6					
160-53883-8	24041008-008	80.2					
160-53883-9	24041008-009	87.3					
160-53883-10	24041008-010	82.7					
160-53883-11	24041008-011	60.2					
160-53883-12	24041008-012	79.7					
160-53883-13	24041008-013	69.5					
160-53883-14	24041008-014	83.0					
160-53883-15	24041008-015	85.8					
160-53883-16	24041008-016	78.9					
LCS 160-659066/2-A	Lab Control Sample	92.1					
MB 160-659066/1-A	Method Blank	91.9					

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba	Y				
Lab Sample ID	Client Sample ID	(30-110)	(30-110)				
160-53883-1	24041008-001	71.3	79.3				
160-53883-2	24041008-002	91.4	83.0				
160-53883-3	24041008-003	73.4	81.5				
160-53883-4	24041008-004	85.0	86.7				
160-53883-5	24041008-005	71.6	81.9				
160-53883-6	24041008-006	84.0	81.9				
160-53883-7	24041008-007	88.6	79.3				
160-53883-8	24041008-008	80.2	80.4				
160-53883-9	24041008-009	87.3	83.7				
160-53883-10	24041008-010	82.7	80.0				
160-53883-11	24041008-011	60.2	81.5				
160-53883-12	24041008-012	79.7	80.7				
160-53883-13	24041008-013	69.5	86.0				
160-53883-14	24041008-014	83.0	81.9				
160-53883-15	24041008-015	85.8	80.7				
160-53883-16	24041008-016	78.9	81.5				
LCS 160-659067/2-A	Lab Control Sample	92.1	85.2				
MB 160-659067/1-A	Method Blank	91.9	83.7				

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Eurofins St. Louis

Site Sampling Event: Joppa- 2Q 2024
LIMS Workorder: 24041007
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
Joppa- 2Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

WO Sample	Well ID	Program/ Sample Type	Weather				Well Condition				
			Temp (°F)	Precipitation	Wind Direction	Sky	Well Pad	Casing	Protective Cover	Reference Mark/ ID	Well Locked
001	G001D	Groundwater Sample	58.0	None	NE	Clear	Good	Good	Good	Yes	Yes
002	G002D	Groundwater Sample	62.0	None	NE	Clear	Good	Good	Good	Yes	Yes
003	G003	Groundwater Sample	64.0	None	NE	Clear	Good	Good	Good	Yes	Yes
004	G005	Groundwater Sample	72.0	None	NE	Clear	Good	Good	Good	Yes	Yes
005	G006	Groundwater Sample	72.0	None	NE	Clear	Good	Good	Good	Yes	Yes
006	G007	Groundwater Sample	64.0	None	S	Partly cloudy	Good	Good	Good	Yes	Yes
007	G008	Groundwater Sample	56.0	None	NE	Clear	Good	Good	Good	Yes	Yes
008	G009	Groundwater Sample	53.0	None	NE	Clear	Good	Good	Good	Yes	Yes
009	G010	Groundwater Sample	65.0	None	NE	Clear	Good	Good	Good	Yes	Yes
010	G011	Groundwater Sample	65.0	None	NE	Clear	Good	Good	Good	Yes	Yes
011	G051D	Groundwater Sample	66.0	None	NE	Clear	Good	Good	Good	Yes	Yes
012	G052D	Groundwater Sample	68.0	None	NE	Clear	Good	Good	Good	Yes	Yes
013	G053D	Groundwater Sample	68.0	None	NE	Clear	Good	Good	Good	Yes	Yes
014	G054D	Groundwater Sample	65.0	None	NE	Clear	Good	Good	Good	Yes	Yes
015	XPW01_pore	Groundwater Sample	72.0	None	NE	Clear	Good	Good	Good	Yes	Yes
016	XPW02_pore	Groundwater Sample	72.0	None	NE	Clear	Good	Good	Good	Yes	Yes
017	XPW03_pore	Groundwater Sample	72.0	None	NE	Clear	Good	Good	Good	Yes	Yes
018	XSG01	DTW Only	65.0	None	NE	Clear					
019	YSG03	DTW Only	65.0	None	NE	Clear					
020	Field Blank	QA/QC Sample	72.0	None	NE	Clear					
021	G052D Duplicate	QA/QC Sample	68.0	None	NE	Clear	Good	Good	Good	Yes	Yes

Site Sampling Event: Joppa- 2Q 2024
LIMS Workorder: 24041007
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
Joppa- 2Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

WO Sample	Well ID	GW Level Measurement				Purge Activities							
		Sampler Initials	Date/Time	DTW (ft)	DTB (ft)	Sampler Initials	Purge Date	Purge Start Time	Purge End Time	Purging Device	Well Diameter (in)	Actual Volume Purged (L)	Purge Rate (mL/min)
001	G001D	BG	4/22/24 10:59	41.86	67.10	BG	4/22/2024	10:59	12:01	Bladder Pump	2"	8.5	137.1
002	G002D	BG	4/22/24 12:19	42.32	75.20	BG	4/22/2024	12:19	12:59	Bladder Pump	2"	5.5	137.5
003	G003	BG	4/22/24 13:13	37.45	68.03	BG	4/22/2024	13:13	14:26	Bladder Pump	2"	6.0	82.2
004	G005	DC	4/23/24 10:50	43.20	62.92	DC	4/23/2024	10:51	11:24	Bladder Pump	2"	9.0	272.7
005	G006	DC	4/23/24 14:18	37.32	62.76	DC	4/23/2024	14:19	15:17	Bladder Pump	2"	11.0	189.7
006	G007	JC	4/23/24 10:38	37.17	87.64	JC	4/23/2024	10:38	11:39	Bladder Pump	2"	7.0	114.8
007	G008	BG	4/23/24 9:04	27.05	86.82	BG	4/23/2024	09:04	09:51	Bladder Pump	2"	6.0	127.7
008	G009	BG	4/23/24 8:16	35.69	72.51	BG	4/23/2024	08:16	08:42	Bladder Pump	2"	3.0	115.4
009	G010	TAC	4/22/24 14:31	35.49	73.04	TAC	4/22/2024	14:32	15:16	Bladder Pump	2"	12.0	272.7
010	G011	TAC	4/22/24 11:41	45.41	68.90	TAC	4/22/2024	11:46	12:36	Bladder Pump	2"	10.0	200.0
011	G051D	BG	4/22/24 14:40	42.42	62.70	BG	4/22/2024	14:40	15:02	Bladder Pump	2"	6.0	272.7
012	G052D	DC	4/23/24 8:50	27.20	82.50	DC	4/23/2024	08:54	09:19	Bladder Pump	2"	7.0	280.0
013	G053D	TAC	4/23/24 9:58	36.03	60.60	DC	4/23/2024	10:00	10:30	Bladder Pump	2"	9.0	300.0
014	G054D	TAC	4/22/24 13:26	37.91	83.50	TAC	4/22/2024	13:30	14:04	Bladder Pump	2"	8.0	235.3
015	XPW01_pore	DC	4/23/24 12:32	14.68	56.31	DC	4/23/2024	12:33	12:55	Bladder Pump	2"	2.0	90.9
016	XPW02_pore	DC	4/23/24 13:13	4.55	32.52	DC	4/23/2024	13:14	13:35	Bladder Pump	2"	6.0	285.7
017	XPW03_pore	DC	4/23/24 11:41	14.46	39.57	DC	4/23/2024	11:43	12:20	Bladder Pump	2"	3.0	81.1
018	XSG01	JC	4/22/24 11:09	N/A	-								
019	YSG03	JC	4/22/24 13:17	38.25	-								
020	Field Blank	-	-	-	-								
021	G052D Duplicate	DC	4/23/24 8:50	27.20	82.50	DC	4/23/2024	08:54	09:19	Bladder Pump	2"	7.0	280.0

Site Sampling Event: Joppa- 2Q 2024
LIMS Workorder: 24041007
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
Joppa- 2Q 2024

WO Sample	Well ID	Sampling Activities and Observations										
		Sampler Initials	Date	Time	Sampling Method	Instrument ID	Field Filtered	Appearance	Odor	Color	Post-Sample DTW (ft)	Drawdown (ft)
001	G001D	BG	04/22/24	12:01	Low Flow	26599	No	Clear	None	Lt Brown	42.59	0.73
002	G002D	BG	04/22/24	12:59	Low Flow	26599	No	Clear	None	clear	42.41	0.09
003	G003	BG	04/22/24	14:26	Low Flow	26599	No	Clear	None	Lt Brown	37.41	-0.04
004	G005	TAC	04/23/24	11:24	Low Flow	218083	No	Clear	None	None	45.46	2.26
005	G006	TAC	04/23/24	15:17	Low Flow	218083	No	Clear	None	None	37.70	0.38
006	G007	JC	04/23/24	11:30	Low Flow	26599	No	Slightly cloudy	None	Lt Brown	37.17	0
007	G008	BG	04/22/24	09:51	Low Flow	26599	No	Clear	None	Clear	27.05	0
008	G009	BG	04/22/24	08:42	Low Flow	26599	No	Clear	None	Lt Brown	34.85	-0.84
009	G010	TAC	04/22/24	15:16	Low Flow	218083	No	Clear	None	Rust	35.75	0.26
010	G011	TAC	04/22/24	12:36	Low Flow	218083	No	Clear	None	None	45.42	0.01
011	G051D	BG	04/22/24	15:02	Low Flow	26599	No	Clear	None	CLEAR	43.13	0.71
012	G052D	TAC	04/23/24	09:19	Low Flow	218083	No	Clear	None	None	29.25	2.05
013	G053D	TAC	04/23/24	10:30	Low Flow	218083	No	Clear	None	None	36.19	0.16
014	G054D	TAC	04/22/24	14:04	Low Flow	218083	No	Clear	None	None	37.95	0.04
015	XPW01_pore	TAC	04/23/24	12:55	Low Flow	218083	No	Clear	None	None	15.59	0.91
016	XPW02_pore	TAC	04/23/24	13:35	Low Flow	218083	No	Clear	None	None	4.80	0.25
017	XPW03_pore	TAC	04/23/24	12:20	Low Flow	218083	No	Clear	None	None	18.66	4.2
018	XSG01											
019	YSG03											
020	Field Blank	TAC	04/23/24	12:30	No Purge	-	No					
021	G052D Duplicate	TAC	04/23/24	09:19	Low Flow	218083	No	Clear	None	None	29.25	2.05

Site Sampling Event: Joppa- 2Q 2024

LIMS Workorder: 24041007

Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary

Joppa- 2Q 2024

WO Sample	Well ID	COMMENTS
001	G001D	
002	G002D	
003	G003	
004	G005	
005	G006	
006	G007	
007	G008	
008	G009	
009	G010	
010	G011	
011	G051D	
012	G052D	
013	G053D	
014	G054D	
015	XPW01_pore	
016	XPW02_pore	
017	XPW03_pore	
018	XSG01	
019	YSG03	
020	Field Blank	
021	G052D Duplicate	

Site Sampling Event: Joppa- 2Q 2024
LIMS Workorder: 24041007
Technician(s): DC, JC, TC, BG, PY

Stabilized Field Parameters
Joppa- 2Q 2024

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID
G001D	4/22/2024	12:01	17.3	63.1	6.32	567.8	1.75	223.65	131.1	41.86	24041007-001A
G002D	4/22/2024	12:59	14.8	58.6	6.25	405.7	2.91	0.18	162.4	42.32	24041007-002A
G003	4/22/2024	14:26	19.9	67.9	6.24	504.9	3.46	85.05	170.2	37.45	24041007-003A
G005	4/23/2024	11:18	16.9	62.4	6.38	526.2	1.70	38.52	25.9	43.20	24041007-004A
G006	4/23/2024	15:17	16.1	61.0	6.59	692.9	0.32	76.90	84.2	37.32	24041007-005A
G007	4/23/2024	11:30	17.3	63.1	6.39	894.7	1.07	88.28	138.3	37.17	24041007-006A
G008	4/23/2024	9:51	17.4	63.3	6.89	886.1	1.34	27.38	-8.4	27.05	24041007-007A
G009	4/23/2024	8:42	17.0	62.6	6.11	747.1	1.16	74.42	-3.7	35.69	24041007-008A
G010	4/22/2024	15:16	17.1	62.8	6.60	1,214.1	0.31	69.69	34.7	35.49	24041007-009A
G011	4/22/2024	12:36	17.1	62.8	6.16	631.7	1.65	20.02	111.6	45.41	24041007-010A
G051D	4/22/2024	15:02	17.1	62.8	5.40	403.2	3.37	39.48	223.9	42.42	24041007-011A
G052D	4/23/2024	9:19	15.2	59.4	6.37	400.5	0.50	2.66	-110.5	27.20	24041007-012A
G053D	4/23/2024	10:30	16.5	61.7	6.39	470.3	0.16	36.77	25.8	36.03	24041007-013A
G054D	4/22/2024	14:04	16.6	61.9	6.61	835.1	0.13	10.17	-4.9	37.91	24041007-014A
XPW01_pore	4/23/2024	12:55	19.8	67.6	8.48	942.2	0.29	3.56	-196.0	14.68	24041007-015A
XPW02_pore	4/23/2024	13:35	18.1	64.6	7.68	4,805.9	0.61	4.58	-177.4	4.55	24041007-016A
XPW03_pore	4/23/2024	12:20	20.7	69.3	10.65	641.3	1.66	1.74	-112.4	14.46	24041007-017A
XSG01	4/22/2024	11:09	DTW Only							N/A	24041007-018A
YSG03	4/22/2024	13:17	DTW Only							38.25	24041007-019A
Field Blank	4/23/2024	12:30	QA/QC Sample							-	24041007-020A
G052D Duplicate	4/23/2024	9:19	15.2	59.4	6.37	400.5	0.50	2.66	-110.5	27.20	24041007-021A

Site Sampling Event: Joppa- 2Q 2024

LIMS Workorder: 24041007

Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- Groundwater Quality Parameters
Joppa- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G001D	4/22/2024	11:13	41.86	16.5	61.7	6.44	521.9	1.61	19.59	114.1
G001D	4/22/2024	11:16	41.86	16.5	61.8	6.44	523.7	1.36	17.32	115.0
G001D	4/22/2024	11:19	41.86	16.5	61.6	6.43	524.1	1.31	19.19	116.4
G001D	4/22/2024	11:22	41.86	16.6	61.8	6.43	523.4	1.26	23.96	117.4
G001D	4/22/2024	11:25	41.86	16.5	61.7	6.43	522.1	1.19	27.31	118.0
G001D	4/22/2024	11:28	41.86	17.1	62.8	6.64	4.7	6.99	17.29	117.3
G001D	4/22/2024	11:31	41.86	16.3	61.3	6.42	529.6	3.04	367.73	126.6
G001D	4/22/2024	11:34	41.86	16.8	62.2	6.41	539.8	2.87	382.14	122.8
G001D	4/22/2024	11:37	41.86	16.3	61.4	6.41	545.5	2.35	473.40	117.3
G001D	4/22/2024	11:40	41.86	16.4	61.5	6.35	555.3	1.38	273.69	115.7
G001D	4/22/2024	11:43	41.86	16.7	62.1	6.33	563.6	1.38	276.16	119.0
G001D	4/22/2024	11:46	41.86	16.7	62.0	6.35	560.4	1.44	271.66	119.7
G001D	4/22/2024	11:49	41.86	16.7	62.1	6.33	563.3	1.49	266.11	122.4
G001D	4/22/2024	11:52	41.86	16.7	62.1	6.32	566.9	1.57	259.22	125.6
G001D	4/22/2024	11:55	41.86	16.7	62.1	6.31	567.6	1.66	219.87	128.3
G001D	4/22/2024	11:58	41.86	16.8	62.3	6.31	568.1	1.72	221.86	130.8
G001D	4/22/2024	12:01	41.86	17.3	63.1	6.32	567.8	1.75	223.65	131.1

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G002D	4/22/2024	12:23	42.32	15.1	59.2	6.64	406.9	5.61	2.96	157.0
G002D	4/22/2024	12:26	42.32	14.9	58.9	6.49	408.7	3.51	2.24	157.5
G002D	4/22/2024	12:29	42.32	14.9	58.8	6.43	408.4	3.13	2.27	156.7
G002D	4/22/2024	12:32	42.32	14.9	58.8	6.41	408.0	3.07	2.59	156.2
G002D	4/22/2024	12:35	42.32	14.9	58.8	6.38	407.9	2.98	3.26	156.6
G002D	4/22/2024	12:38	42.32	14.8	58.7	6.36	407.8	2.93	4.04	157.4
G002D	4/22/2024	12:41	42.32	14.8	58.6	6.29	407.8	2.87	5.17	158.5
G002D	4/22/2024	12:44	42.32	14.9	58.8	6.28	407.1	2.85	6.12	158.9
G002D	4/22/2024	12:47	42.32	14.7	58.4	6.27	406.3	2.83	1.45	159.5
G002D	4/22/2024	12:50	42.32	14.8	58.6	6.27	406.6	2.70	0.60	160.0
G002D	4/22/2024	12:53	42.32	14.8	58.6	6.26	406.5	2.73	0.19	160.7
G002D	4/22/2024	12:56	42.32	14.8	58.7	6.26	406.3	2.79	0.22	161.4
G002D	4/22/2024	12:59	42.32	14.8	58.6	6.25	405.7	2.91	0.18	162.4

Site Sampling Event: Joppa- 2Q 2024

LIMS Workorder: 24041007

Technician(s): DC, JC, TC, BG, PY

**Groundwater Sampling Field Forms- Groundwater Quality Parameters
Joppa- 2Q 2024**

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G003	4/22/2024	13:17	37.45	16.7	62.1	6.10	582.7	3.09	53.34	139.6
G003	4/22/2024	13:20	37.45	16.7	62.1	6.08	609.1	2.57	34.90	154.4
G003	4/22/2024	13:23	37.45	16.8	62.3	6.08	618.2	2.32	29.17	160.7
G003	4/22/2024	13:26	37.45	16.8	62.2	6.08	623.9	2.26	21.57	164.5
G003	4/22/2024	13:29	37.45	16.8	62.2	6.07	629.8	2.23	19.59	167.1
G003	4/22/2024	13:32	37.45	16.7	62.1	6.08	626.7	2.24	31.09	168.3
G003	4/22/2024	13:35	37.45	16.2	61.1	6.11	586.9	2.91	128.45	170.0
G003	4/22/2024	13:38	37.45	16.8	62.3	6.11	573.7	2.56	155.46	168.8
G003	4/22/2024	13:41	37.45	17.4	63.4	6.13	563.4	2.62	176.86	167.6
G003	4/22/2024	13:44	37.45	17.5	63.4	6.15	543.0	2.74	202.03	166.6
G003	4/22/2024	13:47	37.45	17.5	63.6	6.19	512.6	2.90	208.66	165.4
G003	4/22/2024	13:50	37.45	17.6	63.7	6.20	497.2	3.05	206.86	165.3
G003	4/22/2024	13:53	37.45	17.6	63.6	6.20	497.2	3.20	205.76	165.6
G003	4/22/2024	13:56	37.45	18.1	64.6	6.20	501.3	4.18	122.90	165.0
G003	4/22/2024	13:59	37.45	17.7	63.8	6.20	504.0	3.70	97.92	166.7
G003	4/22/2024	14:02	37.45	18.1	64.6	6.20	502.6	3.57	101.96	167.6
G003	4/22/2024	14:05	37.45	18.4	65.1	6.20	504.0	3.46	106.74	168.4
G003	4/22/2024	14:08	37.45	18.8	65.8	6.21	503.7	3.42	111.86	168.7
G003	4/22/2024	14:11	37.45	19.1	66.4	6.22	503.7	3.41	118.88	169.4
G003	4/22/2024	14:14	37.45	19.4	66.9	6.22	505.2	3.54	77.40	169.7
G003	4/22/2024	14:17	37.45	19.5	67.1	6.23	505.0	3.50	81.54	169.8
G003	4/22/2024	14:20	37.45	19.7	67.4	6.23	504.8	3.48	84.68	169.9
G003	4/22/2024	14:23	37.45	19.8	67.7	6.24	504.4	3.46	83.76	169.9
G003	4/22/2024	14:26	37.45	19.9	67.9	6.24	504.9	3.46	85.05	170.2

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G005	4/23/2024	11:03	43.2	16.8	62.2	6.40	532.2	1.45	68.51	14.0
G005	4/23/2024	11:06	43.2	16.8	62.2	6.40	531.8	1.48	85.12	16.7
G005	4/23/2024	11:09	43.2	16.8	62.2	6.39	528.2	1.53	102.14	19.4
G005	4/23/2024	11:12	43.2	16.8	62.2	6.38	528.6	1.63	48.44	22.1
G005	4/23/2024	11:15	43.2	16.8	62.2	6.38	527.2	1.71	38.22	24.1
G005	4/23/2024	11:18	43.2	16.9	62.4	6.38	526.2	1.70	38.52	25.9

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G006	4/23/2024	14:56	37.32	16.1	61.0	6.60	691.5	0.44	125.91	77.0
G006	4/23/2024	14:59	37.32	16.1	61.0	6.59	692.1	0.41	106.88	78.3
G006	4/23/2024	15:02	37.32	16.1	61.0	6.59	691.7	0.38	100.11	79.3
G006	4/23/2024	15:05	37.32	16.1	61.0	6.59	691.8	0.36	94.77	80.3
G006	4/23/2024	15:08	37.32	16.1	61.0	6.60	692.2	0.35	85.93	81.1
G006	4/23/2024	15:11	37.32	16.1	61.0	6.59	692.2	0.34	78.79	82.0
G006	4/23/2024	15:14	37.32	16.1	61.0	6.60	692.5	0.33	78.90	83.1
G006	4/23/2024	15:17	37.32	16.1	61.0	6.59	692.9	0.32	76.90	84.2

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G007	4/23/2024	11:24	37.17	17.3	63.1	6.38	891.2	1.11	94.77	137.9
G007	4/23/2024	11:27	37.17	17.3	63.1	6.38	892.7	1.09	91.13	138.1
G007	4/23/2024	11:30	37.17	17.3	63.1	6.39	894.7	1.07	88.28	138.3

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G008	4/23/2024	9:30	27.05	17.1	62.7	6.88	891.4	1.57	86.27	-5.8
G008	4/23/2024	9:33	27.05	17.1	62.7	6.88	887.4	1.51	66.71	-6.2
G008	4/23/2024	9:36	27.05	17.2	63.0	6.88	885.5	1.45	57.70	-6.9
G008	4/23/2024	9:39	27.05	17.3	63.1	6.88	885.9	1.41	48.94	-7.7
G008	4/23/2024	9:42	27.05	17.4	63.3	6.88	885.0	1.39	41.09	-7.9
G008	4/23/2024	9:45	27.05	17.4	63.4	6.89	885.6	1.37	35.31	-8.0
G008	4/23/2024	9:48	27.05	17.4	63.4	6.89	885.8	1.36	29.95	-8.2
G008	4/23/2024	9:51	27.05	17.4	63.3	6.89	886.1	1.34	27.38	-8.4

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G009	4/23/2024	8:33	35.69	16.9	62.4	6.13	746.6	1.51	77.08	-0.8
G009	4/23/2024	8:36	35.69	16.9	62.5	6.12	746.1	1.32	80.85	-3.3
G009	4/23/2024	8:39	35.69	17.0	62.6	6.11	746.2	1.22	78.13	-4.3
G009	4/23/2024	8:42	35.69	17.0	62.6	6.11	747.1	1.16	74.42	-3.7

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G010	4/22/2024	14:55	35.49	16.9	62.4	6.58	1,246.5	0.35	302.10	42.9
G010	4/22/2024	14:58	35.49	17.1	62.8	6.59	1,242.3	0.35	138.75	40.0
G010	4/22/2024	15:01	35.49	17.1	62.8	6.59	1,232.7	0.35	98.84	38.6
G010	4/22/2024	15:04	35.49	17.1	62.8	6.59	1,231.1	0.34	78.01	37.0
G010	4/22/2024	15:07	35.49	17.1	62.8	6.60	1,227.5	0.34	80.67	36.2
G010	4/22/2024	15:10	35.49	17.1	62.8	6.60	1,222.8	0.32	66.54	35.5
G010	4/22/2024	15:13	35.49	17.0	62.6	6.60	1,218.2	0.31	67.91	35.1
G010	4/22/2024	15:16	35.49	17.1	62.8	6.60	1,214.1	0.31	69.69	34.7

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G011	4/22/2024	12:06	45.41	17.1	62.8	6.19	756.6	2.90	15.59	110.3
G011	4/22/2024	12:09	45.41	17.2	63.0	6.18	735.2	2.65	14.82	109.9
G011	4/22/2024	12:12	45.41	17.1	62.8	6.17	715.8	2.44	16.38	110.2
G011	4/22/2024	12:15	45.41	17.1	62.8	6.17	700.8	2.28	16.74	110.3
G011	4/22/2024	12:18	45.41	17.2	63.0	6.17	687.4	2.19	27.25	109.6
G011	4/22/2024	12:21	45.41	17.1	62.8	6.17	677.3	2.07	40.73	109.7
G011	4/22/2024	12:24	45.41	17.0	62.6	6.17	665.7	1.96	47.62	110.2
G011	4/22/2024	12:27	45.41	17.0	62.6	6.17	657.8	1.86	60.14	110.6
G011	4/22/2024	12:30	45.41	17.0	62.6	6.16	645.1	1.80	11.46	110.8
G011	4/22/2024	12:33	45.41	17.1	62.8	6.16	641.0	1.73	11.82	111.4
G011	4/22/2024	12:36	45.41	17.1	62.8	6.16	631.7	1.65	20.02	111.6

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G051D	4/22/2024	14:47	42.42	17.3	63.1	5.42	405.7	3.40	60.14	199.0
G051D	4/22/2024	14:50	42.42	17.3	63.1	5.40	406.7	3.34	46.88	208.2
G051D	4/22/2024	14:53	42.42	17.2	63.0	5.40	406.4	3.32	42.31	213.7
G051D	4/22/2024	14:56	42.42	17.2	62.9	5.40	406.6	3.47	39.78	217.7
G051D	4/22/2024	14:59	42.42	17.2	62.9	5.40	395.8	3.34	37.37	221.1
G051D	4/22/2024	15:02	42.42	17.1	62.8	5.40	403.2	3.37	39.48	223.9

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G052D	4/23/2024	9:01	27.2	15.1	59.2	6.29	399.7	0.78	4.91	-92.7
G052D	4/23/2024	9:04	27.2	15.1	59.2	6.32	400.0	0.65	5.26	-98.2
G052D	4/23/2024	9:07	27.2	15.2	59.4	6.34	400.1	0.64	4.76	-102.7
G052D	4/23/2024	9:10	27.2	15.2	59.4	6.35	400.3	0.61	4.28	-105.6
G052D	4/23/2024	9:13	27.2	15.2	59.4	6.36	400.5	0.57	2.19	-107.9
G052D	4/23/2024	9:16	27.2	15.2	59.4	6.36	400.5	0.51	2.34	-109.3
G052D	4/23/2024	9:19	27.2	15.2	59.4	6.37	400.5	0.50	2.66	-110.5

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G053D	4/23/2024	10:12	36.03	16.4	61.5	6.41	476.1	0.27	16.83	7.7
G053D	4/23/2024	10:15	36.03	16.4	61.5	6.40	473.9	0.23	22.47	10.0
G053D	4/23/2024	10:18	36.03	16.4	61.5	6.40	472.2	0.20	26.55	14.7
G053D	4/23/2024	10:21	36.03	16.5	61.7	6.40	471.7	0.19	26.73	19.0
G053D	4/23/2024	10:24	36.03	16.5	61.7	6.40	471.1	0.18	31.25	21.6
G053D	4/23/2024	10:27	36.03	16.5	61.7	6.40	470.6	0.17	34.80	23.8
G053D	4/23/2024	10:30	36.03	16.5	61.7	6.39	470.3	0.16	36.77	25.8

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G054D	4/22/2024	13:55	37.91	16.6	61.9	6.59	838.2	0.24	6.60	-3.7
G054D	4/22/2024	13:58	37.91	16.7	62.1	6.60	837.4	0.16	6.65	-4.6
G054D	4/22/2024	14:01	37.91	16.6	61.9	6.60	835.9	0.14	8.20	-4.5
G054D	4/22/2024	14:04	37.91	16.6	61.9	6.61	835.1	0.13	10.17	-4.9

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XPW01_pore	4/23/2024	12:43	14.68	19.7	67.5	8.06	923.0	0.82	3.34	-168.2
XPW01_pore	4/23/2024	12:46	14.68	19.8	67.6	8.22	924.2	0.67	2.57	-173.8
XPW01_pore	4/23/2024	12:49	14.68	19.6	67.3	8.39	932.8	0.51	2.41	-185.1
XPW01_pore	4/23/2024	12:52	14.68	19.6	67.3	8.45	938.3	0.37	4.31	-192.3
XPW01_pore	4/23/2024	12:55	14.68	19.8	67.6	8.48	942.2	0.29	3.56	-196.0

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XPW02_pore	4/23/2024	13:23	4.55	18.0	64.4	7.65	4,800.4	0.37	24.17	-168.6
XPW02_pore	4/23/2024	13:26	4.55	17.9	64.2	7.67	4,811.5	0.35	14.42	-172.1
XPW02_pore	4/23/2024	13:29	4.55	18.0	64.4	7.67	4,809.3	0.61	3.49	-175.7
XPW02_pore	4/23/2024	13:32	4.55	17.9	64.2	7.68	4,804.8	0.58	3.62	-176.5
XPW02_pore	4/23/2024	13:35	4.55	18.1	64.6	7.68	4,805.9	0.61	4.58	-177.4

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XPW03_pore	4/23/2024	12:02	14.46	18.2	64.8	10.73	641.1	1.38	1.99	-111.0
XPW03_pore	4/23/2024	12:05	14.46	19.1	66.4	10.70	639.5	1.40	1.99	-112.1
XPW03_pore	4/23/2024	12:08	14.46	20.0	68.0	10.68	639.0	1.48	1.92	-112.1
XPW03_pore	4/23/2024	12:11	14.46	20.5	68.9	10.65	638.1	1.58	1.75	-111.5
XPW03_pore	4/23/2024	12:14	14.46	20.8	69.4	10.65	640.3	1.66	1.71	-111.1
XPW03_pore	4/23/2024	12:17	14.46	20.7	69.3	10.65	642.2	1.67	1.52	-111.2
XPW03_pore	4/23/2024	12:20	14.46	20.7	69.3	10.65	641.3	1.66	1.74	-112.4

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
XSG01	4/22/2024	11:09	DTW Only							

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
YSG03	4/22/2024	13:17	DTW Only							

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
Field Blank	4/23/2024	12:30	-	QA/QC Sample						

Site Sampling Event: Joppa- 2Q 2024

Groundwater Sampling Field Forms- Groundwater Quality Parameters

LIMS Workorder: 24041007

Joppa- 2Q 2024

Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
G052D Duplicate	4/23/2024	9:01	27.2	15.1	59.2	6.29	399.7	0.78	4.91	-92.7
G052D Duplicate	4/23/2024	9:04	27.2	15.1	59.2	6.32	400.0	0.65	5.26	-98.2
G052D Duplicate	4/23/2024	9:07	27.2	15.2	59.4	6.34	400.1	0.64	4.76	-102.7
G052D Duplicate	4/23/2024	9:10	27.2	15.2	59.4	6.35	400.3	0.61	4.28	-105.6
G052D Duplicate	4/23/2024	9:13	27.2	15.2	59.4	6.36	400.5	0.57	2.19	-107.9
G052D Duplicate	4/23/2024	9:16	27.2	15.2	59.4	6.36	400.5	0.51	2.34	-109.3
G052D Duplicate	4/23/2024	9:19	27.2	15.2	59.4	6.37	400.5	0.50	2.66	-110.5

Site Sampling Event: Joppa- 2Q 2024
LIMS Workorder: 24041007
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
Joppa- 2Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 26599 Technician(s): Justin Colp Date: 4/22/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	4.02	4/22/24 10:37
7.0 Buffer	wc240307f	7.00	4/22/24 10:42
10.0 Buffer	wc231027d	10.01	4/22/24 10:45
LCS/CCV (7.0 Buffer)	wc230217a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1413	4/22/24 10:49

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.46	4/22/24 10:55
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	4/22/24 10:56	17.4	7.00	1,413	0.46		
CCV-1	CCV	4/22/24 15:10	23.01	7.01	1,425	0.48		

Comments:

Field Meter ID: Pine 26599 Technician(s): Justin Colp Date: 4/23/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	4.03	4/23/24 7:20
7.0 Buffer	wc240307f	7.03	4/23/24 7:26
10.0 Buffer	wc231027d	10.01	4/23/24 7:33
LCS/CCV (7.0 Buffer)	wc230217a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	4/23/24 7:36

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.46	4/23/24 7:41
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2	LCS	4/23/24 7:48	16.98	7.01	1,412	0.46		
CCV-2	CCV	4/23/24 11:36	17.4	7.03	1,447	0.67		

Comments:

Site Sampling Event: Joppa- 2Q 2024
LIMS Workorder: 24041007
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
Joppa- 2Q 2024

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
JOPPA POWER PLANT, EAST ASH POND
JOP-845-401

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 218083 Technician(s): Tracy Carroll Date: 4/22/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	4/22/24 11:17
7.0 Buffer	240307F	7.00	4/22/24 11:15
10.0 Buffer	WC230619B	10.00	4/22/24 11:20
LCS/CCV (7.0 Buffer)	WC230217A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	4/22/24 11:22

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.39	4/22/24 11:25
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	4/22/24 11:32	13.9	7.08	1,413	1.5		
CCV-1	CCV	4/22/24 15:31	18.2	7.07	1,383	1.46		

Comments:

Field Meter ID: Pine 218083 Technician(s): Tracy Carroll/Danny Crump Date: 4/23/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	4/23/24 8:41
7.0 Buffer	240307F	7.00	4/23/24 8:38
10.0 Buffer	WC230619B	10.00	4/23/24 8:43
LCS/CCV (7.0 Buffer)	WC230217A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	4/23/24 8:46

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.79	4/23/24 8:47
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2	LCS	4/23/24 8:48	12.6	7.08	1,409	0.79		
CCV-M-2	CCV	4/23/24 11:48	20.6	7.01	1,388	0.77		
CCV-2	CCV	4/23/24 15:24	21.7	6.98	1,370	0.78		

Comments:



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

11669 Lilburn Park Rd.
St. Louis, MO 63146
Office: 314.344.1079

Pine Environmental Services, Inc.

Instrument ID 26599
Description YSI ProDSS
Calibrated 3/25/2024 12:25:29PM

Group # 5		Range Acc % 0.0000	
Group Name Dissolved Oxygen Span		Reading Acc % 3.0000	
Stated Accy Pct of Reading		Plus/Minus 0.0	
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>
100.0 / 100.0	%	100.0	%
		<u>End As</u>	<u>Lft As</u>
		96.9	99.3
		<u>Dev%</u>	<u>Pass/Fail</u>
		-0.70%	Pass

<u>Test Instruments Used During the Calibration</u>					<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
STL 126 NTU L#23E24002133	STL 126 NTU L#23E24002133	YSI	126 NTU	23E24002133		5/20/2024
STL 1413 COND L#4GB0749	STL 1413 COND L#4GB0749	AquaPhoenix Scientific	31986	4GB0749		2/25/2025
STL AUTOCAL L#24009059	Auto Cal Solution 0 NTU/PH 4	GFS	8483	24009059		3/20/2025
STL ORP SOLUTION 240MV L#3GJ0994	STL ORP SOLUTION 240MV L#3GJ0994	AquaPhoenix Scientific	ORP Solution	3GJ0994		7/25/2024
STL PH10 #3GK0004	STL PH10 #3GK0004	AquaPhoenix Scientific	PH 10	3GK0004		11/25/2025
STL PH4 L#3GH0675	STL pH4 L#3GH0675	AquaPhoenix Scientific	pH 4	3GH0675		8/25/2025
STL PH7 L#3GK1332	STL PH7 L#3GK1332	AquaPhoenix Scientific	PH7	3GK1332		11/25/2025

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Chris Harkins

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

11669 Lilburn Park Rd.
St. Louis, MO 63146
Office: 314.344.1079

Pine Environmental Services, Inc.

Instrument ID 26599
Description YSI ProDSS
Calibrated 3/25/2024 12:25:29PM

Manufacturer	YSI	State Certified	
Model Number	ProDSS	Status	Pass
Serial Number/ Lot	15H101893	Temp °C	22.2
Number		Humidity %	43
Location	St. Louis		
Department			

Calibration Specifications

Group # 1
Group Name PH
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
7.00 / 7.00	PH	7.00	PH	7.25	7.02	0.29%	Pass
4.00 / 4.00	PH	4.00	PH	4.31	4.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	10.15	10.05	0.50%	Pass

Group # 2
Group Name Turbidity
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	NTU	0.00	NTU	0.36	0.00	0.00%	Pass
124.00 / 124.00	NTU	124.00	NTU	118.31	124.00	0.00%	Pass

Group # 3
Group Name Conductivity
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.000

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
1.413 / 1.413	ms/cm	1.413	ms/cm	1.469	1.413	0.00%	Pass

Group # 4
Group Name Redox (ORP)
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.0

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
240.0 / 240.0	mv	240.0	mv	224.4	240.0	0.00%	Pass

Group # 5
Group Name Dissolved Oxygen Span
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.0

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
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INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

11669 Lilburn Park Rd.
St. Louis, MO 63146
Office: 314.344.1079

Pine Environmental Services, Inc.

Instrument ID 218083
Description YSI Pro DSS Sonde
Calibrated 3/27/2024 5:59:58PM

Group # 5				Range Acc % 0.0000				
Group Name Dissolved Oxygen Span				Reading Acc % 3.0000				
Stated Accy Pct of Reading				Plus/Minus 0.00				
<u>Nom In Val / In Val</u>		<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
100.00 / 100.00		%	100.00	%	97.30	100.00	0.00%	Pass

<u>Test Instruments Used During the Calibration</u>					<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
STL 126 NTU L#23E24002133	STL 126 NTU L#23E24002133	YSI	126 NTU	23E24002133		5/20/2024
STL 1413 COND L#4GB0749	STL 1413 COND L#4GB0749	AquaPhoenix Scientific	31986	4GB0749		2/25/2025
STL AUTO CAL L#24009059	Auto Cal Solution 0 NTU/PH 4	GFS	8483	24009059		3/20/2025
STL ORP SOLUTION 240MV L#3GJ0994	STL ORP SOLUTION 240MV L#3GJ0994	AquaPhoenix Scientific	ORP Solution	3GJ0994		7/25/2024
STL PH10 #3GK0004	STL PH10 #3GK0004	AquaPhoenix Scientific	PH 10	3GK0004		11/25/2025
STL PH4 L#3GH0675	STL pH4 L#3GH0675	AquaPhoenix Scientific	pH 4	3GH0675		8/25/2025
STL PH7 L#3GK1332	STL PH7 L#3GK1332	AquaPhoenix Scientific	PH7	3GK1332		11/25/2025

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Chris Harkins

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
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INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

11669 Lilburn Park Rd.
St. Louis, MO 63146
Office: 314.344.1079

Pine Environmental Services, Inc.

Instrument ID 218083
Description YSI Pro DSS Sonde
Calibrated 3/27/2024 5:59:58PM

Manufacturer	YSI	State Certified	
Model Number	Pro DSS	Status	Pass
Serial Number/ Lot Number	23F102674	Temp °C	22.2
Location	St. Louis	Humidity %	43
Department			

Calibration Specifications

Group # 1
Group Name PH
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
7.00 / 7.00	PH	7.00	PH	7.30	7.02	0.29%	Pass
4.00 / 4.00	PH	4.00	PH	4.31	4.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	10.24	10.05	0.50%	Pass

Group # 2
Group Name Turbidity (NTU)
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	FNU	0.00	FNU	0.59	0.00	0.00%	Pass
124.00 / 124.00	FNU	124.00	FNU	118.44	124.00	0.00%	Pass

Group # 3
Group Name Conductivity
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.000

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
1.413 / 1.413	ms/cm	1.413	ms/cm	1.474	1.413	0.00%	Pass

Group # 4
Group Name Redox (ORP)
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
240.00 / 240.00	mv	240.00	mv	228.50	240.00	0.00%	Pass

Group # 5
Group Name Dissolved Oxygen Span
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
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**ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 2, 2024**

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
JOPPA POWER PLANT
EAST ASH POND
JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G03	UA	E005	Antimony, total	mg/L	03/05/21 - 04/22/24	15	100	All ND - Last	0.001	0.001
G03	UA	E005	Arsenic, total	mg/L	03/05/21 - 04/22/24	15	40	CI around geomean	0.00113	0.00170
G03	UA	E005	Barium, total	mg/L	03/05/21 - 04/22/24	15	0	CI around mean	0.0611	0.254
G03	UA	E005	Beryllium, total	mg/L	03/05/21 - 04/22/24	15	93	CI around median	0.001	0.00110
G03	UA	E005	Boron, total	mg/L	03/05/21 - 04/22/24	15	0	CI around geomean	0.241	0.0531
G03	UA	E005	Cadmium, total	mg/L	03/05/21 - 04/22/24	15	100	All ND - Last	0.001	0.00100
G03	UA	E005	Chloride, total	mg/L	03/05/21 - 04/22/24	15	0	CI around mean	20.5	32.0
G03	UA	E005	Chromium, total	mg/L	03/05/21 - 04/22/24	15	7	CI around mean	0.00392	0.00390
G03	UA	E005	Cobalt, total	mg/L	03/05/21 - 04/22/24	15	27	CI around geomean	0.00151	0.00150
G03	UA	E005	Fluoride, total	mg/L	03/05/21 - 04/22/24	15	0	CI around mean	0.193	0.250
G03	UA	E005	Lead, total	mg/L	03/05/21 - 04/22/24	15	33	CI around geomean	0.00122	0.00150
G03	UA	E005	Lithium, total	mg/L	03/05/21 - 04/22/24	15	73	CI around median	0.003	0.003
G03	UA	E005	Mercury, total	mg/L	03/05/21 - 04/22/24	15	93	CI around median	0.0002	0.0002
G03	UA	E005	Molybdenum, total	mg/L	03/05/21 - 04/22/24	15	87	CI around median	0.0015	0.00150
G03	UA	E005	pH (field)	SU	03/05/21 - 04/22/24	15	0	CI around mean	6.3/6.4	6.0/6.8
G03	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/05/21 - 04/22/24	15	0	CI around mean	0.446	1.70
G03	UA	E005	Selenium, total	mg/L	03/05/21 - 04/22/24	15	100	All ND - Last	0.001	0.00420
G03	UA	E005	Sulfate, total	mg/L	03/05/21 - 04/22/24	15	0	CI around geomean	70.1	39.0
G03	UA	E005	Thallium, total	mg/L	03/05/21 - 04/22/24	15	100	All ND - Last	0.002	0.00200
G03	UA	E005	Total Dissolved Solids	mg/L	03/05/21 - 04/22/24	15	0	CI around geomean	277	334
G05	UA	E005	Antimony, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.001
G05	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/23/24	15	87	CI around median	0.001	0.00170
G05	UA	E005	Barium, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	0.179	0.254
G05	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.00110
G05	UA	E005	Boron, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	-0.011	0.0531
G05	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.00100
G05	UA	E005	Chloride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	17.3	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	E005	Chromium, total	mg/L	03/04/21 - 04/23/24	15	67	CI around median	0.0015	0.00390
G05	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	8.24e-05	0.00150
G05	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	0.353	0.250
G05	UA	E005	Lead, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.00150
G05	UA	E005	Lithium, total	mg/L	03/04/21 - 04/23/24	15	73	CI around median	0.003	0.003
G05	UA	E005	Mercury, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.0002	0.0002
G05	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/23/24	15	7	CI around mean	0.00391	0.00150
G05	UA	E005	pH (field)	SU	03/04/21 - 04/23/24	15	0	CI around mean	6.4/6.5	6.0/6.8
G05	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/23/24	15	0	CI around geomean	0.454	1.70
G05	UA	E005	Selenium, total	mg/L	03/04/21 - 04/23/24	15	27	CB around linear reg	0.000257	0.00420
G05	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	84.5	39.0
G05	UA	E005	Thallium, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.002	0.00200
G05	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	351	334
G06	UA	E005	Antimony, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.001
G06	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/23/24	15	53	CI around median	0.001	0.00170
G06	UA	E005	Barium, total	mg/L	03/04/21 - 04/23/24	15	0	CI around median	0.0257	0.254
G06	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.00110
G06	UA	E005	Boron, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	3.03	0.0531
G06	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.00100
G06	UA	E005	Chloride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	20.9	32.0
G06	UA	E005	Chromium, total	mg/L	03/04/21 - 04/23/24	15	27	CI around geomean	0.00164	0.00390
G06	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/23/24	15	53	CI around median	0.001	0.00150
G06	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	0.253	0.250
G06	UA	E005	Lead, total	mg/L	03/04/21 - 04/23/24	15	73	CI around median	0.001	0.00150
G06	UA	E005	Lithium, total	mg/L	03/04/21 - 04/23/24	15	20	CI around median	0.0035	0.003
G06	UA	E005	Mercury, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.0002	0.0002
G06	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.0015	0.00150

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JOPPA, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G06	UA	E005	pH (field)	SU	03/04/21 - 04/23/24	14	0	CI around mean	6.5/6.6	6.0/6.8
G06	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/23/24	15	0	CB around linear reg	1.16	1.70
G06	UA	E005	Selenium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.00420
G06	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	175	39.0
G06	UA	E005	Thallium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.002	0.00200
G06	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/23/24	15	0	CB around T-S line	371	334
G07	UA	E005	Antimony, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.001
G07	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/23/24	15	67	CI around median	0.001	0.00170
G07	UA	E005	Barium, total	mg/L	03/04/21 - 04/23/24	15	0	CI around geomean	0.0471	0.254
G07	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/23/24	15	80	CI around median	0.001	0.00110
G07	UA	E005	Boron, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	4.27	0.0531
G07	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.00100
G07	UA	E005	Chloride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	20.3	32.0
G07	UA	E005	Chromium, total	mg/L	03/04/21 - 04/23/24	15	33	CI around geomean	0.0024	0.00390
G07	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/23/24	15	7	CI around mean	0.0017	0.00150
G07	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around median	0.38	0.250
G07	UA	E005	Lead, total	mg/L	03/04/21 - 04/23/24	15	67	CI around median	0.001	0.00150
G07	UA	E005	Lithium, total	mg/L	03/04/21 - 04/23/24	15	53	CI around median	0.003	0.003
G07	UA	E005	Mercury, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.0002	0.0002
G07	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/23/24	15	80	CI around median	0.0015	0.00150
G07	UA	E005	pH (field)	SU	03/04/21 - 04/23/24	15	0	CI around median	6.2/6.4	6.0/6.8
G07	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/23/24	15	0	CB around linear reg	1.48	1.70
G07	UA	E005	Selenium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.00420
G07	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	254	39.0
G07	UA	E005	Thallium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.002	0.00200
G07	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	578	334
G08	UA	E005	Antimony, total	mg/L	03/04/21 - 04/23/24	15	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	E005	Arsenic, total	mg/L	03/04/21 - 04/23/24	15	7	CI around mean	0.00599	0.00170
G08	UA	E005	Barium, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	0.0523	0.254
G08	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.00110
G08	UA	E005	Boron, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	4.24	0.0531
G08	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.00100
G08	UA	E005	Chloride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	13.9	32.0
G08	UA	E005	Chromium, total	mg/L	03/04/21 - 04/23/24	15	13	CI around geomean	0.00181	0.00390
G08	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/23/24	15	7	CI around geomean	0.00354	0.00150
G08	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	0.218	0.250
G08	UA	E005	Lead, total	mg/L	03/04/21 - 04/23/24	15	73	CI around median	0.001	0.00150
G08	UA	E005	Lithium, total	mg/L	03/04/21 - 04/23/24	15	73	CI around median	0.003	0.003
G08	UA	E005	Mercury, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.0002	0.0002
G08	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/23/24	15	20	CI around median	0.0017	0.00150
G08	UA	E005	pH (field)	SU	03/04/21 - 04/23/24	15	0	CI around median	6.8/7.0	6.0/6.8
G08	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/23/24	15	0	CB around linear reg	0.806	1.70
G08	UA	E005	Selenium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.00420
G08	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	280	39.0
G08	UA	E005	Thallium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.002	0.00200
G08	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	564	334
G09	UA	E005	Antimony, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.001
G09	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/23/24	15	13	CI around geomean	0.00212	0.00170
G09	UA	E005	Barium, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	0.0389	0.254
G09	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/23/24	15	67	CI around median	0.001	0.00110
G09	UA	E005	Boron, total	mg/L	03/04/21 - 04/23/24	15	0	CI around median	3.15	0.0531
G09	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.001	0.00100
G09	UA	E005	Chloride, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	13.1	32.0
G09	UA	E005	Chromium, total	mg/L	03/04/21 - 04/23/24	15	20	CI around geomean	0.00176	0.00390

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G09	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	-0.0002	0.00150
G09	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/23/24	15	0	CI around mean	0.277	0.250
G09	UA	E005	Lead, total	mg/L	03/04/21 - 04/23/24	15	60	CI around median	0.001	0.00150
G09	UA	E005	Lithium, total	mg/L	03/04/21 - 04/23/24	15	13	CI around median	0.0034	0.003
G09	UA	E005	Mercury, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.0002	0.0002
G09	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.0015	0.00150
G09	UA	E005	pH (field)	SU	03/04/21 - 04/23/24	15	0	CI around median	6.0/6.4	6.0/6.8
G09	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/23/24	15	0	CI around mean	0.359	1.70
G09	UA	E005	Selenium, total	mg/L	03/04/21 - 04/23/24	15	93	CI around median	0.001	0.00420
G09	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/23/24	15	0	CB around T-S line	178	39.0
G09	UA	E005	Thallium, total	mg/L	03/04/21 - 04/23/24	15	100	All ND - Last	0.002	0.00200
G09	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/23/24	15	0	CB around linear reg	443	334
G10	UA	E005	Antimony, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.001	0.001
G10	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/22/24	15	27	CB around linear reg	0.0048	0.00170
G10	UA	E005	Barium, total	mg/L	03/04/21 - 04/22/24	15	0	CI around geomean	0.039	0.254
G10	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/22/24	15	87	CI around median	0.001	0.00110
G10	UA	E005	Boron, total	mg/L	03/04/21 - 04/22/24	15	0	CB around linear reg	1.35	0.0531
G10	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.001	0.00100
G10	UA	E005	Chloride, total	mg/L	03/04/21 - 04/22/24	15	0	CB around linear reg	18.2	32.0
G10	UA	E005	Chromium, total	mg/L	03/04/21 - 04/22/24	15	27	CI around geomean	0.00185	0.00390
G10	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/22/24	15	0	CB around linear reg	-0.000578	0.00150
G10	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/22/24	15	0	CI around median	0.28	0.250
G10	UA	E005	Lead, total	mg/L	03/04/21 - 04/22/24	15	73	CI around median	0.001	0.00150
G10	UA	E005	Lithium, total	mg/L	03/04/21 - 04/22/24	15	33	CI around median	0.003	0.003
G10	UA	E005	Mercury, total	mg/L	03/04/21 - 04/22/24	15	93	CI around median	0.0002	0.0002
G10	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/22/24	15	53	CI around median	0.0015	0.00150
G10	UA	E005	pH (field)	SU	03/04/21 - 04/22/24	15	0	CI around mean	6.5/6.7	6.0/6.8

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
G10	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/22/24	15	0	CI around mean	0.601	1.70
G10	UA	E005	Selenium, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.001	0.00420
G10	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/22/24	15	0	CI around mean	352	39.0
G10	UA	E005	Thallium, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.002	0.00200
G10	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/22/24	15	0	CI around mean	753	334
G11	UA	E005	Antimony, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.001	0.001
G11	UA	E005	Arsenic, total	mg/L	03/04/21 - 04/22/24	15	93	CI around median	0.001	0.00170
G11	UA	E005	Barium, total	mg/L	03/04/21 - 04/22/24	15	0	CI around geomean	0.0147	0.254
G11	UA	E005	Beryllium, total	mg/L	03/04/21 - 04/22/24	15	93	CI around median	0.001	0.00110
G11	UA	E005	Boron, total	mg/L	03/04/21 - 04/22/24	15	0	CI around mean	0.283	0.0531
G11	UA	E005	Cadmium, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.001	0.00100
G11	UA	E005	Chloride, total	mg/L	03/04/21 - 04/22/24	15	0	CI around mean	29.7	32.0
G11	UA	E005	Chromium, total	mg/L	03/04/21 - 04/22/24	15	80	CI around median	0.0015	0.00390
G11	UA	E005	Cobalt, total	mg/L	03/04/21 - 04/22/24	15	40	CI around geomean	0.000991	0.00150
G11	UA	E005	Fluoride, total	mg/L	03/04/21 - 04/22/24	15	0	CI around mean	0.17	0.250
G11	UA	E005	Lead, total	mg/L	03/04/21 - 04/22/24	15	87	CI around median	0.001	0.00150
G11	UA	E005	Lithium, total	mg/L	03/04/21 - 04/22/24	15	13	CI around median	0.0035	0.003
G11	UA	E005	Mercury, total	mg/L	03/04/21 - 04/22/24	15	100	All ND - Last	0.0002	0.0002
G11	UA	E005	Molybdenum, total	mg/L	03/04/21 - 04/22/24	15	93	CI around median	0.0015	0.00150
G11	UA	E005	pH (field)	SU	03/04/21 - 04/22/24	15	0	CI around median	5.8/6.0	6.0/6.8
G11	UA	E005	Radium 226 + Radium 228, total	pCi/L	03/04/21 - 04/22/24	15	0	CI around mean	0.341	1.70
G11	UA	E005	Selenium, total	mg/L	03/04/21 - 04/22/24	15	0	CB around linear reg	-0.00266	0.00420
G11	UA	E005	Sulfate, total	mg/L	03/04/21 - 04/22/24	15	0	CB around linear reg	-12.6	39.0
G11	UA	E005	Thallium, total	mg/L	03/04/21 - 04/22/24	15	93	CI around median	0.002	0.00200
G11	UA	E005	Total Dissolved Solids	mg/L	03/04/21 - 04/22/24	15	0	CB around linear reg	168	334
G51D	UA	E005	Antimony, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.001	0.001
G51D	UA	E005	Arsenic, total	mg/L	12/03/15 - 04/22/24	25	100	All ND - Last	0.001	0.00170

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
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	E005	Barium, total	mg/L	12/03/15 - 04/22/24	25	0	CB around T-S line	0.0131	0.254
G51D	UA	E005	Beryllium, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.001	0.00110
G51D	UA	E005	Boron, total	mg/L	12/03/15 - 04/22/24	26	0	CB around T-S line	0.547	0.0531
G51D	UA	E005	Cadmium, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.001	0.00100
G51D	UA	E005	Chloride, total	mg/L	12/03/15 - 04/22/24	26	0	CB around T-S line	2.53	32.0
G51D	UA	E005	Chromium, total	mg/L	12/03/15 - 04/22/24	25	68	CB around T-S line	0.00152	0.00390
G51D	UA	E005	Cobalt, total	mg/L	12/03/15 - 04/22/24	25	20	CB around T-S line	-0.0121	0.00150
G51D	UA	E005	Fluoride, total	mg/L	12/03/15 - 04/22/24	26	85	CI around median	0.1	0.250
G51D	UA	E005	Lead, total	mg/L	12/03/15 - 04/22/24	25	100	All ND - Last	0.001	0.00150
G51D	UA	E005	Lithium, total	mg/L	12/03/15 - 04/22/24	25	4	CB around T-S line	0.00556	0.003
G51D	UA	E005	Mercury, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.0002	0.0002
G51D	UA	E005	Molybdenum, total	mg/L	12/03/15 - 04/22/24	21	95	CB around T-S line	0.00142	0.00150
G51D	UA	E005	pH (field)	SU	12/03/15 - 04/22/24	26	0	CB around T-S line	5.1/5.4	6.0/6.8
G51D	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 04/22/24	25	0	CI around mean	0.533	1.70
G51D	UA	E005	Selenium, total	mg/L	12/03/15 - 04/22/24	25	4	CB around T-S line	0.0046	0.00420
G51D	UA	E005	Sulfate, total	mg/L	12/03/15 - 04/22/24	26	0	CB around T-S line	102	39.0
G51D	UA	E005	Thallium, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.002	0.00200
G51D	UA	E005	Total Dissolved Solids	mg/L	12/03/15 - 04/22/24	26	0	CB around linear reg	280	334
G52D	UA	E005	Antimony, total	mg/L	12/03/15 - 04/23/24	19	100	All ND - Last	0.001	0.001
G52D	UA	E005	Arsenic, total	mg/L	12/03/15 - 04/23/24	24	8	CB around linear reg	-0.000536	0.00170
G52D	UA	E005	Barium, total	mg/L	12/03/15 - 04/23/24	24	0	CB around T-S line	0.106	0.254
G52D	UA	E005	Beryllium, total	mg/L	12/03/15 - 04/23/24	19	100	All ND - Last	0.001	0.00110
G52D	UA	E005	Boron, total	mg/L	12/03/15 - 04/23/24	25	92	CI around median	0.025	0.0531
G52D	UA	E005	Cadmium, total	mg/L	12/03/15 - 04/23/24	19	100	All ND - Last	0.001	0.00100
G52D	UA	E005	Chloride, total	mg/L	12/03/15 - 04/23/24	25	0	CB around linear reg	7.31	32.0
G52D	UA	E005	Chromium, total	mg/L	12/03/15 - 04/23/24	24	100	All ND - Last	0.0015	0.00390
G52D	UA	E005	Cobalt, total	mg/L	12/03/15 - 04/23/24	24	0	CI around mean	0.00295	0.00150

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
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	E005	Fluoride, total	mg/L	12/03/15 - 04/23/24	25	0	CI around median	0.25	0.250
G52D	UA	E005	Lead, total	mg/L	12/03/15 - 04/23/24	24	100	All ND - Last	0.001	0.00150
G52D	UA	E005	Lithium, total	mg/L	12/03/15 - 04/23/24	24	50	CI around median	0.003	0.003
G52D	UA	E005	Mercury, total	mg/L	12/03/15 - 04/23/24	19	95	Most recent sample	0.0002	0.0002
G52D	UA	E005	Molybdenum, total	mg/L	12/03/15 - 04/23/24	20	80	CI around median	0.0011	0.00150
G52D	UA	E005	pH (field)	SU	12/03/15 - 04/23/24	25	0	CI around mean	6.2/6.4	6.0/6.8
G52D	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 04/23/24	24	0	CI around mean	0.896	1.70
G52D	UA	E005	Selenium, total	mg/L	12/03/15 - 04/23/24	24	96	CI around median	0.001	0.00420
G52D	UA	E005	Sulfate, total	mg/L	12/03/15 - 04/23/24	25	0	CB around linear reg	44.9	39.0
G52D	UA	E005	Thallium, total	mg/L	12/03/15 - 04/23/24	19	100	All ND - Last	0.002	0.00200
G52D	UA	E005	Total Dissolved Solids	mg/L	12/03/15 - 04/23/24	25	0	CB around linear reg	271	334
G53D	UA	E005	Antimony, total	mg/L	12/03/15 - 04/23/24	20	100	All ND - Last	0.001	0.001
G53D	UA	E005	Arsenic, total	mg/L	12/03/15 - 04/23/24	25	100	All ND - Last	0.001	0.00170
G53D	UA	E005	Barium, total	mg/L	12/03/15 - 04/23/24	25	0	CB around T-S line	-0.00519	0.254
G53D	UA	E005	Beryllium, total	mg/L	12/03/15 - 04/23/24	20	100	All ND - Last	0.001	0.00110
G53D	UA	E005	Boron, total	mg/L	12/03/15 - 04/23/24	26	0	CI around median	0.341	0.0531
G53D	UA	E005	Cadmium, total	mg/L	12/03/15 - 04/23/24	20	100	All ND - Last	0.001	0.00100
G53D	UA	E005	Chloride, total	mg/L	12/03/15 - 04/23/24	26	0	CI around median	18	32.0
G53D	UA	E005	Chromium, total	mg/L	12/03/15 - 04/23/24	25	80	CB around T-S line	0.0015	0.00390
G53D	UA	E005	Cobalt, total	mg/L	12/03/15 - 04/23/24	25	16	CI around median	0.0013	0.00150
G53D	UA	E005	Fluoride, total	mg/L	12/03/15 - 04/23/24	26	0	CI around mean	0.646	0.250
G53D	UA	E005	Lead, total	mg/L	12/03/15 - 04/23/24	25	100	All ND - Last	0.001	0.00150
G53D	UA	E005	Lithium, total	mg/L	12/03/15 - 04/23/24	25	60	CB around T-S line	0.00287	0.003
G53D	UA	E005	Mercury, total	mg/L	12/03/15 - 04/23/24	20	95	CI around median	0.0002	0.0002
G53D	UA	E005	Molybdenum, total	mg/L	12/03/15 - 04/23/24	21	90	CB around T-S line	0.00134	0.00150
G53D	UA	E005	pH (field)	SU	12/03/15 - 04/23/24	26	0	CB around T-S line	6.3/6.4	6.0/6.8
G53D	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 04/23/24	25	0	CI around mean	0.378	1.70

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
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	E005	Selenium, total	mg/L	12/03/15 - 04/23/24	25	100	All ND - Last	0.001	0.00420
G53D	UA	E005	Sulfate, total	mg/L	12/03/15 - 04/23/24	26	0	CB around T-S line	47.2	39.0
G53D	UA	E005	Thallium, total	mg/L	12/03/15 - 04/23/24	20	100	All ND - Last	0.002	0.00200
G53D	UA	E005	Total Dissolved Solids	mg/L	12/03/15 - 04/23/24	26	0	CB around T-S line	269	334
G54D	UA	E005	Antimony, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.001	0.001
G54D	UA	E005	Arsenic, total	mg/L	12/03/15 - 04/22/24	25	52	CB around T-S line	-0.000236	0.00170
G54D	UA	E005	Barium, total	mg/L	12/03/15 - 04/22/24	25	0	CB around T-S line	0.0584	0.254
G54D	UA	E005	Beryllium, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.001	0.00110
G54D	UA	E005	Boron, total	mg/L	12/03/15 - 04/22/24	26	0	CI around mean	0.482	0.0531
G54D	UA	E005	Cadmium, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.001	0.00100
G54D	UA	E005	Chloride, total	mg/L	12/03/15 - 04/22/24	26	4	CB around T-S line	15.1	32.0
G54D	UA	E005	Chromium, total	mg/L	12/03/15 - 04/22/24	25	68	CI around median	0.0015	0.00390
G54D	UA	E005	Cobalt, total	mg/L	12/03/15 - 04/22/24	25	0	CB around linear reg	0.00391	0.00150
G54D	UA	E005	Fluoride, total	mg/L	12/03/15 - 04/22/24	26	0	CB around linear reg	0.26	0.250
G54D	UA	E005	Lead, total	mg/L	12/03/15 - 04/22/24	25	96	CI around median	0.001	0.00150
G54D	UA	E005	Lithium, total	mg/L	12/03/15 - 04/22/24	25	16	CB around linear reg	0.0019	0.003
G54D	UA	E005	Mercury, total	mg/L	12/03/15 - 04/22/24	20	95	CI around median	0.0002	0.0002
G54D	UA	E005	Molybdenum, total	mg/L	12/03/15 - 04/22/24	21	95	CB around T-S line	0.00142	0.00150
G54D	UA	E005	pH (field)	SU	12/03/15 - 04/22/24	26	0	CI around mean	6.6/6.8	6.0/6.8
G54D	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/03/15 - 04/22/24	25	0	CI around geomean	0.511	1.70
G54D	UA	E005	Selenium, total	mg/L	12/03/15 - 04/22/24	25	100	All ND - Last	0.001	0.00420
G54D	UA	E005	Sulfate, total	mg/L	12/03/15 - 04/22/24	26	0	CB around linear reg	181	39.0
G54D	UA	E005	Thallium, total	mg/L	12/03/15 - 04/22/24	20	100	All ND - Last	0.002	0.00200
G54D	UA	E005	Total Dissolved Solids	mg/L	12/03/15 - 04/22/24	26	0	CI around mean	493	334

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

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

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