



Illinois Power Resources Generating, LLC
1500 Eastport Plaza Drive
Collinsville, IL 62234

May 12, 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: Edwards Power Plant Ash Pond; IEPA ID # W1438050005-01

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(b)(3)(D), Illinois Power Resources Generating, LLC is submitting groundwater monitoring data for the Quarter 1, 2024 sampling event at the Edwards Power Plant Ash Pond, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1438050005-01. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were 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 December 7, 2023 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 demonstration (ASD) will be evaluated for the detected exceedances of the GWPS and, if successfully completed, the ASD will be submitted to IEPA within 60 days of this transmittal.

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 1, 2024, Ash Pond, Edwards Power Plant, Bartonville, Illinois

35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 1, 2024
ASH POND, EDWARDS POWER PLANT, BARTONVILLE, ILLINOIS

May 12, 2024

Samples were collected between February 7 and 8, 2024 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on March 13, 2024.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 1, 2024 sampling event. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 1, 2024 sampling event.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan¹ provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 1, 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 December 7, 2023 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 demonstration (ASD) will be evaluated for any new detected exceedances of the GWPS and, if successfully completed, the ASD will be submitted to Illinois Environmental Protection Agency (IEPA) within 60 days of this transmittal.

TABLES

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

FIGURES

Figure 1	Monitoring Well Location Map
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¹ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan. Ash Pond. Edwards Power Plant. Bartonville, Illinois.* October 25, 2021.

ATTACHMENTS

- Attachment A Groundwater Elevation Data - Quarter 1, 2024
- Attachment B Laboratory Reports and Field Data Sheets - Quarter 1, 2024
- Attachment C Comparison of Statistical Results to Background - Quarter 1, 2024

TABLES

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AP05S	Background	E004	02/08/2024	Antimony, total	0.00043 U	mg/L
AP05S	Background	E004	02/08/2024	Arsenic, total	0.00120	mg/L
AP05S	Background	E004	02/08/2024	Barium, total	0.650	mg/L
AP05S	Background	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AP05S	Background	E004	02/08/2024	Boron, total	0.280 J+	mg/L
AP05S	Background	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AP05S	Background	E004	02/08/2024	Calcium, total	100	mg/L
AP05S	Background	E004	02/08/2024	Chloride, total	39.0	mg/L
AP05S	Background	E004	02/08/2024	Chromium, total	0.0039	mg/L
AP05S	Background	E004	02/08/2024	Cobalt, total	0.00200	mg/L
AP05S	Background	E004	02/08/2024	Dissolved Oxygen	0.370	mg/L
AP05S	Background	E004	02/08/2024	Fluoride, total	0.3 U	mg/L
AP05S	Background	E004	02/08/2024	Lead, total	0.00210	mg/L
AP05S	Background	E004	02/08/2024	Lithium, total	0.0290	mg/L
AP05S	Background	E004	02/08/2024	Mercury, total	0.00014 U	mg/L
AP05S	Background	E004	02/08/2024	Molybdenum, total	0.00074 U	mg/L
AP05S	Background	E004	02/08/2024	Oxidation Reduction Potential	-71.0	mV
AP05S	Background	E004	02/08/2024	pH (field)	7.1	SU
AP05S	Background	E004	02/08/2024	Radium 226 + Radium 228, total	1.58	pCi/L
AP05S	Background	E004	02/08/2024	Selenium, total	0.00074 U	mg/L
AP05S	Background	E004	02/08/2024	Specific Conductance @ 25C (field)	1,730	micromhos/cm
AP05S	Background	E004	02/08/2024	Sulfate, total	58.0	mg/L
AP05S	Background	E004	02/08/2024	Temperature	12.9	degrees C
AP05S	Background	E004	02/08/2024	Thallium, total	0.00038 U	mg/L
AP05S	Background	E004	02/08/2024	Total Dissolved Solids	820	mg/L
AP05S	Background	E004	02/08/2024	Turbidity, field	0	NTU
AW-08	Background	E004	02/08/2024	Antimony, total	0.00043 U	mg/L
AW-08	Background	E004	02/08/2024	Arsenic, total	0.0120	mg/L
AW-08	Background	E004	02/08/2024	Barium, total	0.300	mg/L
AW-08	Background	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AW-08	Background	E004	02/08/2024	Boron, total	0.140 J+	mg/L
AW-08	Background	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AW-08	Background	E004	02/08/2024	Calcium, total	140	mg/L
AW-08	Background	E004	02/08/2024	Chloride, total	18.0	mg/L
AW-08	Background	E004	02/08/2024	Chromium, total	0.0028 U	mg/L
AW-08	Background	E004	02/08/2024	Cobalt, total	0.00077	mg/L
AW-08	Background	E004	02/08/2024	Dissolved Oxygen	1.40	mg/L
AW-08	Background	E004	02/08/2024	Fluoride, total	0.256 J+	mg/L
AW-08	Background	E004	02/08/2024	Lead, total	0.00062	mg/L
AW-08	Background	E004	02/08/2024	Lithium, total	0.013	mg/L
AW-08	Background	E004	02/08/2024	Mercury, total	0.00014 U	mg/L
AW-08	Background	E004	02/08/2024	Molybdenum, total	0.00180	mg/L
AW-08	Background	E004	02/08/2024	Oxidation Reduction Potential	-99.0	mV
AW-08	Background	E004	02/08/2024	pH (field)	6.8	SU
AW-08	Background	E004	02/08/2024	Radium 226 + Radium 228, total	1.54	pCi/L
AW-08	Background	E004	02/08/2024	Selenium, total	0.00074 U	mg/L

TABLE 1.
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845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-08	Background	E004	02/08/2024	Specific Conductance @ 25C (field)	1,490	micromhos/cm
AW-08	Background	E004	02/08/2024	Sulfate, total	0.38	mg/L
AW-08	Background	E004	02/08/2024	Temperature	14.9	degrees C
AW-08	Background	E004	02/08/2024	Thallium, total	0.00038 U	mg/L
AW-08	Background	E004	02/08/2024	Total Dissolved Solids	710	mg/L
AW-08	Background	E004	02/08/2024	Turbidity, field	0	NTU
AP07S	Compliance	E004	02/08/2024	Antimony, total	0.00043 U	mg/L
AP07S	Compliance	E004	02/08/2024	Arsenic, total	0.00069 U	mg/L
AP07S	Compliance	E004	02/08/2024	Barium, total	0.0610 J+	mg/L
AP07S	Compliance	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AP07S	Compliance	E004	02/08/2024	Boron, total	12.0	mg/L
AP07S	Compliance	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AP07S	Compliance	E004	02/08/2024	Calcium, total	170	mg/L
AP07S	Compliance	E004	02/08/2024	Chloride, total	84.0	mg/L
AP07S	Compliance	E004	02/08/2024	Chromium, total	0.0028 U	mg/L
AP07S	Compliance	E004	02/08/2024	Cobalt, total	0.00240	mg/L
AP07S	Compliance	E004	02/08/2024	Dissolved Oxygen	0	mg/L
AP07S	Compliance	E004	02/08/2024	Fluoride, total	0.289 J+	mg/L
AP07S	Compliance	E004	02/08/2024	Lead, total	0.00033	mg/L
AP07S	Compliance	E004	02/08/2024	Lithium, total	0.0065	mg/L
AP07S	Compliance	E004	02/08/2024	Mercury, total	0.00018	mg/L
AP07S	Compliance	E004	02/08/2024	Molybdenum, total	0.00088	mg/L
AP07S	Compliance	E004	02/08/2024	Oxidation Reduction Potential	-27.0	mV
AP07S	Compliance	E004	02/08/2024	pH (field)	6.7	SU
AP07S	Compliance	E004	02/08/2024	Radium 226 + Radium 228, total	0.487	pCi/L
AP07S	Compliance	E004	02/08/2024	Selenium, total	0.00074 U	mg/L
AP07S	Compliance	E004	02/08/2024	Specific Conductance @ 25C (field)	1,406	micromhos/cm
AP07S	Compliance	E004	02/08/2024	Sulfate, total	330	mg/L
AP07S	Compliance	E004	02/08/2024	Temperature	14.7	degrees C
AP07S	Compliance	E004	02/08/2024	Thallium, total	0.00038 U	mg/L
AP07S	Compliance	E004	02/08/2024	Total Dissolved Solids	980	mg/L
AP07S	Compliance	E004	02/08/2024	Turbidity, field	66.1	NTU
AW-01	Compliance	E004	02/08/2024	Antimony, total	0.00043 U	mg/L
AW-01	Compliance	E004	02/08/2024	Arsenic, total	0.00390	mg/L
AW-01	Compliance	E004	02/08/2024	Barium, total	0.0880 J+	mg/L
AW-01	Compliance	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AW-01	Compliance	E004	02/08/2024	Boron, total	0.130 J+	mg/L
AW-01	Compliance	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AW-01	Compliance	E004	02/08/2024	Calcium, total	140	mg/L
AW-01	Compliance	E004	02/08/2024	Chloride, total	22.0	mg/L
AW-01	Compliance	E004	02/08/2024	Chromium, total	0.0028 U	mg/L
AW-01	Compliance	E004	02/08/2024	Cobalt, total	0.001	mg/L
AW-01	Compliance	E004	02/08/2024	Dissolved Oxygen	0.970	mg/L
AW-01	Compliance	E004	02/08/2024	Fluoride, total	0.254 J+	mg/L
AW-01	Compliance	E004	02/08/2024	Lead, total	0.00041	mg/L
AW-01	Compliance	E004	02/08/2024	Lithium, total	0.01	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-01	Compliance	E004	02/08/2024	Mercury, total	0.00014 U	mg/L
AW-01	Compliance	E004	02/08/2024	Molybdenum, total	0.00480	mg/L
AW-01	Compliance	E004	02/08/2024	Oxidation Reduction Potential	-75.0	mV
AW-01	Compliance	E004	02/08/2024	pH (field)	6.7	SU
AW-01	Compliance	E004	02/08/2024	Radium 226 + Radium 228, total	0.444	pCi/L
AW-01	Compliance	E004	02/08/2024	Selenium, total	0.00074 U	mg/L
AW-01	Compliance	E004	02/08/2024	Specific Conductance @ 25C (field)	1,450	micromhos/cm
AW-01	Compliance	E004	02/08/2024	Sulfate, total	67.0	mg/L
AW-01	Compliance	E004	02/08/2024	Temperature	13.6	degrees C
AW-01	Compliance	E004	02/08/2024	Thallium, total	0.00038 U	mg/L
AW-01	Compliance	E004	02/08/2024	Total Dissolved Solids	740	mg/L
AW-01	Compliance	E004	02/08/2024	Turbidity, field	0	NTU
AW-05	Compliance	E004	02/08/2024	Antimony, total	0.00043 U	mg/L
AW-05	Compliance	E004	02/08/2024	Arsenic, total	0.00510	mg/L
AW-05	Compliance	E004	02/08/2024	Barium, total	0.150	mg/L
AW-05	Compliance	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AW-05	Compliance	E004	02/08/2024	Boron, total	6.20	mg/L
AW-05	Compliance	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AW-05	Compliance	E004	02/08/2024	Calcium, total	170	mg/L
AW-05	Compliance	E004	02/08/2024	Chloride, total	75.0	mg/L
AW-05	Compliance	E004	02/08/2024	Chromium, total	0.00890	mg/L
AW-05	Compliance	E004	02/08/2024	Cobalt, total	0.00600	mg/L
AW-05	Compliance	E004	02/08/2024	Dissolved Oxygen	0.960	mg/L
AW-05	Compliance	E004	02/08/2024	Fluoride, total	0.3 U	mg/L
AW-05	Compliance	E004	02/08/2024	Lead, total	0.00450	mg/L
AW-05	Compliance	E004	02/08/2024	Lithium, total	0.0200	mg/L
AW-05	Compliance	E004	02/08/2024	Mercury, total	0.00014 U	mg/L
AW-05	Compliance	E004	02/08/2024	Molybdenum, total	0.00220	mg/L
AW-05	Compliance	E004	02/08/2024	Oxidation Reduction Potential	29.0	mV
AW-05	Compliance	E004	02/08/2024	pH (field)	6.9	SU
AW-05	Compliance	E004	02/08/2024	Radium 226 + Radium 228, total	0.861	pCi/L
AW-05	Compliance	E004	02/08/2024	Selenium, total	0.00074 U	mg/L
AW-05	Compliance	E004	02/08/2024	Specific Conductance @ 25C (field)	1,770	micromhos/cm
AW-05	Compliance	E004	02/08/2024	Sulfate, total	400	mg/L
AW-05	Compliance	E004	02/08/2024	Temperature	14.5	degrees C
AW-05	Compliance	E004	02/08/2024	Thallium, total	0.00038 U	mg/L
AW-05	Compliance	E004	02/08/2024	Total Dissolved Solids	1,000	mg/L
AW-05	Compliance	E004	02/08/2024	Turbidity, field	0	NTU
AW-06	Compliance	E004	02/07/2024	Antimony, total	0.00043 U	mg/L
AW-06	Compliance	E004	02/07/2024	Arsenic, total	0.00840	mg/L
AW-06	Compliance	E004	02/07/2024	Barium, total	0.230	mg/L
AW-06	Compliance	E004	02/07/2024	Beryllium, total	0.00059 U	mg/L
AW-06	Compliance	E004	02/07/2024	Boron, total	0.0970 J+	mg/L
AW-06	Compliance	E004	02/07/2024	Cadmium, total	0.00074 U	mg/L
AW-06	Compliance	E004	02/07/2024	Calcium, total	130	mg/L
AW-06	Compliance	E004	02/07/2024	Chloride, total	35.0	mg/L

TABLE 1.
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845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-06	Compliance	E004	02/07/2024	Chromium, total	0.00460	mg/L
AW-06	Compliance	E004	02/07/2024	Cobalt, total	0.00270	mg/L
AW-06	Compliance	E004	02/07/2024	Dissolved Oxygen	0.830	mg/L
AW-06	Compliance	E004	02/07/2024	Fluoride, total	0.263	mg/L
AW-06	Compliance	E004	02/07/2024	Lead, total	0.00240 J	mg/L
AW-06	Compliance	E004	02/07/2024	Lithium, total	0.013	mg/L
AW-06	Compliance	E004	02/07/2024	Mercury, total	0.00014 U	mg/L
AW-06	Compliance	E004	02/07/2024	Molybdenum, total	0.00640	mg/L
AW-06	Compliance	E004	02/07/2024	Oxidation Reduction Potential	-100	mV
AW-06	Compliance	E004	02/07/2024	pH (field)	7.3	SU
AW-06	Compliance	E004	02/07/2024	Radium 226 + Radium 228, total	1.20	pCi/L
AW-06	Compliance	E004	02/07/2024	Selenium, total	0.00074 U	mg/L
AW-06	Compliance	E004	02/07/2024	Specific Conductance @ 25C (field)	801	micromhos/cm
AW-06	Compliance	E004	02/07/2024	Sulfate, total	22.0	mg/L
AW-06	Compliance	E004	02/07/2024	Temperature	12.5	degrees C
AW-06	Compliance	E004	02/07/2024	Thallium, total	0.00038 U	mg/L
AW-06	Compliance	E004	02/07/2024	Total Dissolved Solids	550	mg/L
AW-06	Compliance	E004	02/07/2024	Turbidity, field	0	NTU
AW-09	Compliance	E004	02/07/2024	Antimony, total	0.00043 U	mg/L
AW-09	Compliance	E004	02/07/2024	Arsenic, total	0.0270	mg/L
AW-09	Compliance	E004	02/07/2024	Barium, total	0.460	mg/L
AW-09	Compliance	E004	02/07/2024	Beryllium, total	0.00059 U	mg/L
AW-09	Compliance	E004	02/07/2024	Boron, total	0.280 J+	mg/L
AW-09	Compliance	E004	02/07/2024	Cadmium, total	0.00074 U	mg/L
AW-09	Compliance	E004	02/07/2024	Calcium, total	120	mg/L
AW-09	Compliance	E004	02/07/2024	Chloride, total	27.0	mg/L
AW-09	Compliance	E004	02/07/2024	Chromium, total	0.0028 U	mg/L
AW-09	Compliance	E004	02/07/2024	Cobalt, total	0.00210	mg/L
AW-09	Compliance	E004	02/07/2024	Dissolved Oxygen	1.40	mg/L
AW-09	Compliance	E004	02/07/2024	Fluoride, total	0.109	mg/L
AW-09	Compliance	E004	02/07/2024	Lead, total	0.00022 U	mg/L
AW-09	Compliance	E004	02/07/2024	Lithium, total	0.016	mg/L
AW-09	Compliance	E004	02/07/2024	Mercury, total	0.00014	mg/L
AW-09	Compliance	E004	02/07/2024	Molybdenum, total	0.0180	mg/L
AW-09	Compliance	E004	02/07/2024	Oxidation Reduction Potential	-141	mV
AW-09	Compliance	E004	02/07/2024	pH (field)	7.1	SU
AW-09	Compliance	E004	02/07/2024	Radium 226 + Radium 228, total	0.807	pCi/L
AW-09	Compliance	E004	02/07/2024	Selenium, total	0.00074 U	mg/L
AW-09	Compliance	E004	02/07/2024	Specific Conductance @ 25C (field)	1,140	micromhos/cm
AW-09	Compliance	E004	02/07/2024	Sulfate, total	0.18 U	mg/L
AW-09	Compliance	E004	02/07/2024	Temperature	12.7	degrees C
AW-09	Compliance	E004	02/07/2024	Thallium, total	0.00038 U	mg/L
AW-09	Compliance	E004	02/07/2024	Total Dissolved Solids	760	mg/L
AW-09	Compliance	E004	02/07/2024	Turbidity, field	34.6	NTU
AW-10	Compliance	E004	02/08/2024	Antimony, total	0.00043 U	mg/L
AW-10	Compliance	E004	02/08/2024	Arsenic, total	0.0110	mg/L

TABLE 1.
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-10	Compliance	E004	02/08/2024	Barium, total	0.870	mg/L
AW-10	Compliance	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AW-10	Compliance	E004	02/08/2024	Boron, total	0.490 J+	mg/L
AW-10	Compliance	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AW-10	Compliance	E004	02/08/2024	Calcium, total	130	mg/L
AW-10	Compliance	E004	02/08/2024	Chloride, total	89.0	mg/L
AW-10	Compliance	E004	02/08/2024	Chromium, total	0.00470	mg/L
AW-10	Compliance	E004	02/08/2024	Cobalt, total	0.00430	mg/L
AW-10	Compliance	E004	02/08/2024	Dissolved Oxygen	1.70	mg/L
AW-10	Compliance	E004	02/08/2024	Fluoride, total	0.3 U	mg/L
AW-10	Compliance	E004	02/08/2024	Lead, total	0.00220	mg/L
AW-10	Compliance	E004	02/08/2024	Lithium, total	0.0430	mg/L
AW-10	Compliance	E004	02/08/2024	Mercury, total	0.00014 U	mg/L
AW-10	Compliance	E004	02/08/2024	Molybdenum, total	0.00150	mg/L
AW-10	Compliance	E004	02/08/2024	Oxidation Reduction Potential	-119	mV
AW-10	Compliance	E004	02/08/2024	pH (field)	7.0	SU
AW-10	Compliance	E004	02/08/2024	Radium 226 + Radium 228, total	2.08	pCi/L
AW-10	Compliance	E004	02/08/2024	Selenium, total	0.00074 U	mg/L
AW-10	Compliance	E004	02/08/2024	Specific Conductance @ 25C (field)	1,700	micromhos/cm
AW-10	Compliance	E004	02/08/2024	Sulfate, total	0.18 U	mg/L
AW-10	Compliance	E004	02/08/2024	Temperature	13.4	degrees C
AW-10	Compliance	E004	02/08/2024	Thallium, total	0.00038 U	mg/L
AW-10	Compliance	E004	02/08/2024	Total Dissolved Solids	1,200	mg/L
AW-10	Compliance	E004	02/08/2024	Turbidity, field	310	NTU
AW-11	Compliance	E004	02/08/2024	Antimony, total	0.00043 U	mg/L
AW-11	Compliance	E004	02/08/2024	Arsenic, total	0.00920	mg/L
AW-11	Compliance	E004	02/08/2024	Barium, total	1.00	mg/L
AW-11	Compliance	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AW-11	Compliance	E004	02/08/2024	Boron, total	0.260 J+	mg/L
AW-11	Compliance	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AW-11	Compliance	E004	02/08/2024	Calcium, total	150	mg/L
AW-11	Compliance	E004	02/08/2024	Chloride, total	35.0	mg/L
AW-11	Compliance	E004	02/08/2024	Chromium, total	0.0028 U	mg/L
AW-11	Compliance	E004	02/08/2024	Cobalt, total	0.0019	mg/L
AW-11	Compliance	E004	02/08/2024	Dissolved Oxygen	1.10	mg/L
AW-11	Compliance	E004	02/08/2024	Fluoride, total	0.3 U	mg/L
AW-11	Compliance	E004	02/08/2024	Lead, total	0.00110	mg/L
AW-11	Compliance	E004	02/08/2024	Lithium, total	0.0230	mg/L
AW-11	Compliance	E004	02/08/2024	Mercury, total	0.00014 U	mg/L
AW-11	Compliance	E004	02/08/2024	Molybdenum, total	0.00091	mg/L
AW-11	Compliance	E004	02/08/2024	Oxidation Reduction Potential	-137	mV
AW-11	Compliance	E004	02/08/2024	pH (field)	7.0	SU
AW-11	Compliance	E004	02/08/2024	Radium 226 + Radium 228, total	2.82	pCi/L
AW-11	Compliance	E004	02/08/2024	Selenium, total	0.00074 U	mg/L
AW-11	Compliance	E004	02/08/2024	Specific Conductance @ 25C (field)	1,460	micromhos/cm
AW-11	Compliance	E004	02/08/2024	Sulfate, total	0.18 U	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-11	Compliance	E004	02/08/2024	Temperature	11.7	degrees C
AW-11	Compliance	E004	02/08/2024	Thallium, total	0.00038 U	mg/L
AW-11	Compliance	E004	02/08/2024	Total Dissolved Solids	950	mg/L
AW-11	Compliance	E004	02/08/2024	Turbidity, field	718	NTU
AW-14	Compliance	E004	02/08/2024	Antimony, total	0.00063	mg/L
AW-14	Compliance	E004	02/08/2024	Arsenic, total	0.00220	mg/L
AW-14	Compliance	E004	02/08/2024	Barium, total	0.510	mg/L
AW-14	Compliance	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AW-14	Compliance	E004	02/08/2024	Boron, total	0.380 J+	mg/L
AW-14	Compliance	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AW-14	Compliance	E004	02/08/2024	Calcium, total	160	mg/L
AW-14	Compliance	E004	02/08/2024	Chloride, total	42.0	mg/L
AW-14	Compliance	E004	02/08/2024	Chromium, total	0.0028 U	mg/L
AW-14	Compliance	E004	02/08/2024	Cobalt, total	0.00220	mg/L
AW-14	Compliance	E004	02/08/2024	Dissolved Oxygen	0.460	mg/L
AW-14	Compliance	E004	02/08/2024	Fluoride, total	0.3 U	mg/L
AW-14	Compliance	E004	02/08/2024	Lead, total	0.00140	mg/L
AW-14	Compliance	E004	02/08/2024	Lithium, total	0.019	mg/L
AW-14	Compliance	E004	02/08/2024	Mercury, total	0.00014 U	mg/L
AW-14	Compliance	E004	02/08/2024	Molybdenum, total	0.00590	mg/L
AW-14	Compliance	E004	02/08/2024	Oxidation Reduction Potential	-123	mV
AW-14	Compliance	E004	02/08/2024	pH (field)	7.0	SU
AW-14	Compliance	E004	02/08/2024	Radium 226 + Radium 228, total	1.74	pCi/L
AW-14	Compliance	E004	02/08/2024	Selenium, total	0.00140	mg/L
AW-14	Compliance	E004	02/08/2024	Specific Conductance @ 25C (field)	1,430	micromhos/cm
AW-14	Compliance	E004	02/08/2024	Sulfate, total	28.0	mg/L
AW-14	Compliance	E004	02/08/2024	Temperature	11.5	degrees C
AW-14	Compliance	E004	02/08/2024	Thallium, total	0.00038 U	mg/L
AW-14	Compliance	E004	02/08/2024	Total Dissolved Solids	940	mg/L
AW-14	Compliance	E004	02/08/2024	Turbidity, field	156	NTU
AW-15	Compliance	E004	02/08/2024	Antimony, total	0.00043 U	mg/L
AW-15	Compliance	E004	02/08/2024	Arsenic, total	0.00180	mg/L
AW-15	Compliance	E004	02/08/2024	Barium, total	1.70	mg/L
AW-15	Compliance	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AW-15	Compliance	E004	02/08/2024	Boron, total	0.410 J+	mg/L
AW-15	Compliance	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AW-15	Compliance	E004	02/08/2024	Calcium, total	140	mg/L
AW-15	Compliance	E004	02/08/2024	Chloride, total	36.0	mg/L
AW-15	Compliance	E004	02/08/2024	Chromium, total	0.0028 U	mg/L
AW-15	Compliance	E004	02/08/2024	Cobalt, total	0.0016	mg/L
AW-15	Compliance	E004	02/08/2024	Dissolved Oxygen	0.670	mg/L
AW-15	Compliance	E004	02/08/2024	Fluoride, total	0.3 U	mg/L
AW-15	Compliance	E004	02/08/2024	Lead, total	0.00028	mg/L
AW-15	Compliance	E004	02/08/2024	Lithium, total	0.0330	mg/L
AW-15	Compliance	E004	02/08/2024	Mercury, total	0.00014 U	mg/L
AW-15	Compliance	E004	02/08/2024	Molybdenum, total	0.00074 U	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-15	Compliance	E004	02/08/2024	Oxidation Reduction Potential	-102	mV
AW-15	Compliance	E004	02/08/2024	pH (field)	6.8	SU
AW-15	Compliance	E004	02/08/2024	Radium 226 + Radium 228, total	5.34	pCi/L
AW-15	Compliance	E004	02/08/2024	Selenium, total	0.00074 U	mg/L
AW-15	Compliance	E004	02/08/2024	Specific Conductance @ 25C (field)	1,560	micromhos/cm
AW-15	Compliance	E004	02/08/2024	Sulfate, total	0.18 U	mg/L
AW-15	Compliance	E004	02/08/2024	Temperature	13.1	degrees C
AW-15	Compliance	E004	02/08/2024	Thallium, total	0.00038 U	mg/L
AW-15	Compliance	E004	02/08/2024	Total Dissolved Solids	1,100	mg/L
AW-15	Compliance	E004	02/08/2024	Turbidity, field	34.5	NTU
AW-15S	Compliance	E004	02/08/2024	Antimony, total	0.00043 U	mg/L
AW-15S	Compliance	E004	02/08/2024	Arsenic, total	0.00069 U	mg/L
AW-15S	Compliance	E004	02/08/2024	Barium, total	0.0730 J+	mg/L
AW-15S	Compliance	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AW-15S	Compliance	E004	02/08/2024	Boron, total	6.80	mg/L
AW-15S	Compliance	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AW-15S	Compliance	E004	02/08/2024	Calcium, total	250	mg/L
AW-15S	Compliance	E004	02/08/2024	Chloride, total	30.0	mg/L
AW-15S	Compliance	E004	02/08/2024	Chromium, total	0.0028 U	mg/L
AW-15S	Compliance	E004	02/08/2024	Cobalt, total	0.00048 U	mg/L
AW-15S	Compliance	E004	02/08/2024	Dissolved Oxygen	0.590	mg/L
AW-15S	Compliance	E004	02/08/2024	Fluoride, total	0.260 J+	mg/L
AW-15S	Compliance	E004	02/08/2024	Lead, total	0.00022 U	mg/L
AW-15S	Compliance	E004	02/08/2024	Lithium, total	0.016	mg/L
AW-15S	Compliance	E004	02/08/2024	Mercury, total	0.00014 U	mg/L
AW-15S	Compliance	E004	02/08/2024	Molybdenum, total	0.00280	mg/L
AW-15S	Compliance	E004	02/08/2024	Oxidation Reduction Potential	19.0	mV
AW-15S	Compliance	E004	02/08/2024	pH (field)	7.0	SU
AW-15S	Compliance	E004	02/08/2024	Radium 226 + Radium 228, total	0.522	pCi/L
AW-15S	Compliance	E004	02/08/2024	Selenium, total	0.00490	mg/L
AW-15S	Compliance	E004	02/08/2024	Specific Conductance @ 25C (field)	1,420	micromhos/cm
AW-15S	Compliance	E004	02/08/2024	Sulfate, total	550	mg/L
AW-15S	Compliance	E004	02/08/2024	Temperature	12.6	degrees C
AW-15S	Compliance	E004	02/08/2024	Thallium, total	0.00038 U	mg/L
AW-15S	Compliance	E004	02/08/2024	Total Dissolved Solids	1,300	mg/L
AW-15S	Compliance	E004	02/08/2024	Turbidity, field	0	NTU
AW-16	Compliance	E004	02/08/2024	Antimony, total	0.00043 U	mg/L
AW-16	Compliance	E004	02/08/2024	Arsenic, total	0.00073	mg/L
AW-16	Compliance	E004	02/08/2024	Barium, total	1.10	mg/L
AW-16	Compliance	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AW-16	Compliance	E004	02/08/2024	Boron, total	0.490 J+	mg/L
AW-16	Compliance	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AW-16	Compliance	E004	02/08/2024	Calcium, total	140	mg/L
AW-16	Compliance	E004	02/08/2024	Chloride, total	50.0	mg/L
AW-16	Compliance	E004	02/08/2024	Chromium, total	0.0028 U	mg/L
AW-16	Compliance	E004	02/08/2024	Cobalt, total	0.0014	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-16	Compliance	E004	02/08/2024	Dissolved Oxygen	0	mg/L
AW-16	Compliance	E004	02/08/2024	Fluoride, total	0.3 U	mg/L
AW-16	Compliance	E004	02/08/2024	Lead, total	0.00022 U	mg/L
AW-16	Compliance	E004	02/08/2024	Lithium, total	0.0380	mg/L
AW-16	Compliance	E004	02/08/2024	Mercury, total	0.00014 U	mg/L
AW-16	Compliance	E004	02/08/2024	Molybdenum, total	0.00074 U	mg/L
AW-16	Compliance	E004	02/08/2024	Oxidation Reduction Potential	-121	mV
AW-16	Compliance	E004	02/08/2024	pH (field)	6.5	SU
AW-16	Compliance	E004	02/08/2024	Radium 226 + Radium 228, total	3.46	pCi/L
AW-16	Compliance	E004	02/08/2024	Selenium, total	0.00074 U	mg/L
AW-16	Compliance	E004	02/08/2024	Specific Conductance @ 25C (field)	2,120	micromhos/cm
AW-16	Compliance	E004	02/08/2024	Sulfate, total	6.10	mg/L
AW-16	Compliance	E004	02/08/2024	Temperature	14.7	degrees C
AW-16	Compliance	E004	02/08/2024	Thallium, total	0.00038 U	mg/L
AW-16	Compliance	E004	02/08/2024	Total Dissolved Solids	1,100	mg/L
AW-16	Compliance	E004	02/08/2024	Turbidity, field	0	NTU
AW-17	Compliance	E004	02/08/2024	Antimony, total	0.00043 U	mg/L
AW-17	Compliance	E004	02/08/2024	Arsenic, total	0.00390	mg/L
AW-17	Compliance	E004	02/08/2024	Barium, total	1.00	mg/L
AW-17	Compliance	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AW-17	Compliance	E004	02/08/2024	Boron, total	0.460 J+	mg/L
AW-17	Compliance	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AW-17	Compliance	E004	02/08/2024	Calcium, total	100	mg/L
AW-17	Compliance	E004	02/08/2024	Chloride, total	52.0	mg/L
AW-17	Compliance	E004	02/08/2024	Chromium, total	0.0028 U	mg/L
AW-17	Compliance	E004	02/08/2024	Cobalt, total	0.00240	mg/L
AW-17	Compliance	E004	02/08/2024	Dissolved Oxygen	0	mg/L
AW-17	Compliance	E004	02/08/2024	Fluoride, total	0.3 U	mg/L
AW-17	Compliance	E004	02/08/2024	Lead, total	0.00098	mg/L
AW-17	Compliance	E004	02/08/2024	Lithium, total	0.0360	mg/L
AW-17	Compliance	E004	02/08/2024	Mercury, total	0.00014 U	mg/L
AW-17	Compliance	E004	02/08/2024	Molybdenum, total	0.00074 U	mg/L
AW-17	Compliance	E004	02/08/2024	Oxidation Reduction Potential	-132	mV
AW-17	Compliance	E004	02/08/2024	pH (field)	6.5	SU
AW-17	Compliance	E004	02/08/2024	Radium 226 + Radium 228, total	2.26	pCi/L
AW-17	Compliance	E004	02/08/2024	Selenium, total	0.00074 U	mg/L
AW-17	Compliance	E004	02/08/2024	Specific Conductance @ 25C (field)	1,776	micromhos/cm
AW-17	Compliance	E004	02/08/2024	Sulfate, total	0.18 U	mg/L
AW-17	Compliance	E004	02/08/2024	Temperature	13.4	degrees C
AW-17	Compliance	E004	02/08/2024	Thallium, total	0.00038 U	mg/L
AW-17	Compliance	E004	02/08/2024	Total Dissolved Solids	900	mg/L
AW-17	Compliance	E004	02/08/2024	Turbidity, field	91.9	NTU
AW-18	Compliance	E004	02/07/2024	Antimony, total	0.00043 U	mg/L
AW-18	Compliance	E004	02/07/2024	Arsenic, total	0.00370	mg/L
AW-18	Compliance	E004	02/07/2024	Barium, total	1.60	mg/L
AW-18	Compliance	E004	02/07/2024	Beryllium, total	0.00059 U	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-18	Compliance	E004	02/07/2024	Boron, total	0.430 J+	mg/L
AW-18	Compliance	E004	02/07/2024	Cadmium, total	0.00074 U	mg/L
AW-18	Compliance	E004	02/07/2024	Calcium, total	130	mg/L
AW-18	Compliance	E004	02/07/2024	Chloride, total	98.0	mg/L
AW-18	Compliance	E004	02/07/2024	Chromium, total	0.0028 U	mg/L
AW-18	Compliance	E004	02/07/2024	Cobalt, total	0.001	mg/L
AW-18	Compliance	E004	02/07/2024	Dissolved Oxygen	0.690	mg/L
AW-18	Compliance	E004	02/07/2024	Fluoride, total	0.075	mg/L
AW-18	Compliance	E004	02/07/2024	Lead, total	0.00069	mg/L
AW-18	Compliance	E004	02/07/2024	Lithium, total	0.0290	mg/L
AW-18	Compliance	E004	02/07/2024	Mercury, total	0.00014 U	mg/L
AW-18	Compliance	E004	02/07/2024	Molybdenum, total	0.00160	mg/L
AW-18	Compliance	E004	02/07/2024	Oxidation Reduction Potential	-106	mV
AW-18	Compliance	E004	02/07/2024	pH (field)	7.0	SU
AW-18	Compliance	E004	02/07/2024	Radium 226 + Radium 228, total	3.45	pCi/L
AW-18	Compliance	E004	02/07/2024	Selenium, total	0.00074 U	mg/L
AW-18	Compliance	E004	02/07/2024	Specific Conductance @ 25C (field)	1,490	micromhos/cm
AW-18	Compliance	E004	02/07/2024	Sulfate, total	2.30	mg/L
AW-18	Compliance	E004	02/07/2024	Temperature	12.7	degrees C
AW-18	Compliance	E004	02/07/2024	Thallium, total	0.00038 U	mg/L
AW-18	Compliance	E004	02/07/2024	Total Dissolved Solids	880	mg/L
AW-18	Compliance	E004	02/07/2024	Turbidity, field	62.0	NTU
AW-19	Compliance	E004	02/08/2024	Antimony, total	0.00043 U	mg/L
AW-19	Compliance	E004	02/08/2024	Arsenic, total	0.0150	mg/L
AW-19	Compliance	E004	02/08/2024	Barium, total	0.200	mg/L
AW-19	Compliance	E004	02/08/2024	Beryllium, total	0.00059 U	mg/L
AW-19	Compliance	E004	02/08/2024	Boron, total	3.20	mg/L
AW-19	Compliance	E004	02/08/2024	Cadmium, total	0.00074 U	mg/L
AW-19	Compliance	E004	02/08/2024	Calcium, total	130	mg/L
AW-19	Compliance	E004	02/08/2024	Chloride, total	76.0	mg/L
AW-19	Compliance	E004	02/08/2024	Chromium, total	0.00470	mg/L
AW-19	Compliance	E004	02/08/2024	Cobalt, total	0.00240	mg/L
AW-19	Compliance	E004	02/08/2024	Dissolved Oxygen	0	mg/L
AW-19	Compliance	E004	02/08/2024	Fluoride, total	0.271 J+	mg/L
AW-19	Compliance	E004	02/08/2024	Lead, total	0.00290	mg/L
AW-19	Compliance	E004	02/08/2024	Lithium, total	0.015	mg/L
AW-19	Compliance	E004	02/08/2024	Mercury, total	0.00014 U	mg/L
AW-19	Compliance	E004	02/08/2024	Molybdenum, total	0.00390	mg/L
AW-19	Compliance	E004	02/08/2024	Oxidation Reduction Potential	-85.0	mV
AW-19	Compliance	E004	02/08/2024	pH (field)	6.8	SU
AW-19	Compliance	E004	02/08/2024	Radium 226 + Radium 228, total	1.17	pCi/L
AW-19	Compliance	E004	02/08/2024	Selenium, total	0.00074 U	mg/L
AW-19	Compliance	E004	02/08/2024	Specific Conductance @ 25C (field)	1,185	micromhos/cm
AW-19	Compliance	E004	02/08/2024	Sulfate, total	54.0	mg/L
AW-19	Compliance	E004	02/08/2024	Temperature	13.4	degrees C
AW-19	Compliance	E004	02/08/2024	Thallium, total	0.00038 U	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-19	Compliance	E004	02/08/2024	Total Dissolved Solids	630	mg/L
AW-19	Compliance	E004	02/08/2024	Turbidity, field	60.6	NTU
AW-21	Compliance	E004	02/07/2024	Antimony, total	0.0012	mg/L
AW-21	Compliance	E004	02/07/2024	Arsenic, total	0.00260	mg/L
AW-21	Compliance	E004	02/07/2024	Barium, total	0.0670	mg/L
AW-21	Compliance	E004	02/07/2024	Beryllium, total	0.00059 U	mg/L
AW-21	Compliance	E004	02/07/2024	Boron, total	9.30	mg/L
AW-21	Compliance	E004	02/07/2024	Cadmium, total	0.00074 U	mg/L
AW-21	Compliance	E004	02/07/2024	Calcium, total	100	mg/L
AW-21	Compliance	E004	02/07/2024	Chloride, total	74.0	mg/L
AW-21	Compliance	E004	02/07/2024	Chromium, total	0.0031	mg/L
AW-21	Compliance	E004	02/07/2024	Cobalt, total	0.00073	mg/L
AW-21	Compliance	E004	02/07/2024	Dissolved Oxygen	2.80	mg/L
AW-21	Compliance	E004	02/07/2024	Fluoride, total	0.232	mg/L
AW-21	Compliance	E004	02/07/2024	Lead, total	0.00022 U	mg/L
AW-21	Compliance	E004	02/07/2024	Lithium, total	0.005 U	mg/L
AW-21	Compliance	E004	02/07/2024	Mercury, total	0.00014 U	mg/L
AW-21	Compliance	E004	02/07/2024	Molybdenum, total	0.0220	mg/L
AW-21	Compliance	E004	02/07/2024	Oxidation Reduction Potential	-39.0	mV
AW-21	Compliance	E004	02/07/2024	pH (field)	8.9	SU
AW-21	Compliance	E004	02/07/2024	Radium 226 + Radium 228, total	1.03	pCi/L
AW-21	Compliance	E004	02/07/2024	Selenium, total	0.00110	mg/L
AW-21	Compliance	E004	02/07/2024	Specific Conductance @ 25C (field)	842	micromhos/cm
AW-21	Compliance	E004	02/07/2024	Sulfate, total	220	mg/L
AW-21	Compliance	E004	02/07/2024	Temperature	12.4	degrees C
AW-21	Compliance	E004	02/07/2024	Thallium, total	0.00038 U	mg/L
AW-21	Compliance	E004	02/07/2024	Total Dissolved Solids	580	mg/L
AW-21	Compliance	E004	02/07/2024	Turbidity, field	11.4	NTU

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.

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AP07S	PMP	E004	Antimony, total	mg/L	02/10/21 - 02/08/24	13	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AP07S	PMP	E004	Arsenic, total	mg/L	02/10/21 - 02/08/24	13	85	CI around median	0.001	0.0300	Background	No Exceedance
AP07S	PMP	E004	Barium, total	mg/L	02/10/21 - 02/08/24	13	0	CI around mean	0.0708	2.07	Background	No Exceedance
AP07S	PMP	E004	Beryllium, total	mg/L	02/10/21 - 02/08/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AP07S	PMP	E004	Boron, total	mg/L	02/10/21 - 02/08/24	13	0	CB around linear reg	6.93	2	Standard	Exceedance
AP07S	PMP	E004	Cadmium, total	mg/L	02/10/21 - 02/08/24	13	85	CI around median	0.001	0.005	Standard	No Exceedance
AP07S	PMP	E004	Chloride, total	mg/L	02/10/21 - 02/08/24	13	0	CI around geomean	76.4	200	Standard	No Exceedance
AP07S	PMP	E004	Chromium, total	mg/L	02/10/21 - 02/08/24	13	69	CI around median	0.004	0.1	Standard	No Exceedance
AP07S	PMP	E004	Cobalt, total	mg/L	02/10/21 - 02/08/24	13	0	CI around mean	0.00237	0.0280	Background	No Exceedance
AP07S	PMP	E004	Fluoride, total	mg/L	02/10/21 - 02/08/24	13	69	CI around median	0.25	4.0	Standard	No Exceedance
AP07S	PMP	E004	Lead, total	mg/L	02/10/21 - 02/08/24	13	62	CI around median	0.001	0.0330	Background	No Exceedance
AP07S	PMP	E004	Lithium, total	mg/L	02/10/21 - 02/08/24	13	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AP07S	PMP	E004	Mercury, total	mg/L	02/10/21 - 02/08/24	13	92	CI around median	0.0002	0.002	Standard	No Exceedance
AP07S	PMP	E004	Molybdenum, total	mg/L	02/10/21 - 02/08/24	13	46	CI around median	0.001	0.1	Standard	No Exceedance
AP07S	PMP	E004	pH (field)	SU	02/10/21 - 02/08/24	13	0	CI around mean	6.6/7.0	6.3/9.0	Background/Standard	No Exceedance
AP07S	PMP	E004	Radium 226 + Radium 228, total	pCi/L	02/10/21 - 02/08/24	13	0	CI around mean	0.569	9.60	Background	No Exceedance
AP07S	PMP	E004	Selenium, total	mg/L	02/10/21 - 02/08/24	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AP07S	PMP	E004	Sulfate, total	mg/L	02/10/21 - 02/08/24	13	0	CI around mean	211	400	Standard	No Exceedance
AP07S	PMP	E004	Thallium, total	mg/L	02/10/21 - 02/08/24	13	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AP07S	PMP	E004	Total Dissolved Solids	mg/L	02/10/21 - 02/08/24	13	0	CI around mean	791	1,200	Standard	No Exceedance
AW-01	PMP	E004	Antimony, total	mg/L	11/18/22 - 02/08/24	8	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-01	PMP	E004	Arsenic, total	mg/L	11/18/22 - 02/08/24	8	0	CI around mean	0.00215	0.0300	Background	No Exceedance
AW-01	PMP	E004	Barium, total	mg/L	11/18/22 - 02/08/24	8	0	CI around mean	0.101	2.07	Background	No Exceedance
AW-01	PMP	E004	Beryllium, total	mg/L	11/18/22 - 02/08/24	8	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-01	PMP	E004	Boron, total	mg/L	11/18/22 - 02/08/24	8	0	CI around median	0.072	2	Standard	No Exceedance
AW-01	PMP	E004	Cadmium, total	mg/L	11/18/22 - 02/08/24	8	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-01	PMP	E004	Chloride, total	mg/L	11/18/22 - 02/08/24	8	0	CI around median	10	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-01	PMP	E004	Chromium, total	mg/L	11/18/22 - 02/08/24	8	75	CI around median	0.004	0.1	Standard	No Exceedance
AW-01	PMP	E004	Cobalt, total	mg/L	11/18/22 - 02/08/24	8	12	CI around mean	0.00224	0.0280	Background	No Exceedance
AW-01	PMP	E004	Fluoride, total	mg/L	11/18/22 - 02/08/24	8	50	CI around mean	0.247	4.0	Standard	No Exceedance
AW-01	PMP	E004	Lead, total	mg/L	11/18/22 - 02/08/24	8	75	CI around median	0.001	0.0330	Background	No Exceedance
AW-01	PMP	E004	Lithium, total	mg/L	11/18/22 - 02/08/24	8	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-01	PMP	E004	Mercury, total	mg/L	11/18/22 - 02/08/24	8	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-01	PMP	E004	Molybdenum, total	mg/L	11/18/22 - 02/08/24	8	0	CI around mean	0.00263	0.1	Standard	No Exceedance
AW-01	PMP	E004	pH (field)	SU	11/18/22 - 02/08/24	8	0	CI around mean	6.6/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-01	PMP	E004	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 02/08/24	8	0	CI around mean	-0.393	9.60	Background	No Exceedance
AW-01	PMP	E004	Selenium, total	mg/L	11/18/22 - 02/08/24	8	88	CI around median	0.001	0.05	Standard	No Exceedance
AW-01	PMP	E004	Sulfate, total	mg/L	11/18/22 - 02/08/24	8	0	CI around median	41	400	Standard	No Exceedance
AW-01	PMP	E004	Thallium, total	mg/L	11/18/22 - 02/08/24	8	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-01	PMP	E004	Total Dissolved Solids	mg/L	11/18/22 - 02/08/24	8	0	CI around geomean	730	1,200	Standard	No Exceedance
AW-05	UA	E004	Antimony, total	mg/L	11/09/15 - 02/08/24	17	94	Most recent sample	0.003	0.006	Standard	No Exceedance
AW-05	UA	E004	Arsenic, total	mg/L	11/09/15 - 02/08/24	17	0	CI around geomean	0.00392	0.0300	Background	No Exceedance
AW-05	UA	E004	Barium, total	mg/L	11/09/15 - 02/08/24	17	0	CI around geomean	0.14	2.07	Background	No Exceedance
AW-05	UA	E004	Beryllium, total	mg/L	11/09/15 - 02/08/24	16	88	CI around median	0.001	0.004	Standard	No Exceedance
AW-05	UA	E004	Boron, total	mg/L	11/09/15 - 02/08/24	18	0	CB around linear reg	3.32	2	Standard	Exceedance
AW-05	UA	E004	Cadmium, total	mg/L	11/09/15 - 02/08/24	17	88	CI around median	0.001	0.005	Standard	No Exceedance
AW-05	UA	E004	Chloride, total	mg/L	11/09/15 - 02/08/24	18	0	CB around linear reg	-133	200	Standard	No Exceedance
AW-05	UA	E004	Chromium, total	mg/L	11/09/15 - 02/08/24	17	29	CI around geomean	0.00579	0.1	Standard	No Exceedance
AW-05	UA	E004	Cobalt, total	mg/L	11/09/15 - 02/08/24	17	18	CI around geomean	0.00358	0.0280	Background	No Exceedance
AW-05	UA	E004	Fluoride, total	mg/L	11/09/15 - 02/08/24	18	56	CI around median	0.25	4.0	Standard	No Exceedance
AW-05	UA	E004	Lead, total	mg/L	11/09/15 - 02/08/24	16	31	CI around geomean	0.00179	0.0330	Background	No Exceedance
AW-05	UA	E004	Lithium, total	mg/L	11/09/15 - 02/08/24	17	29	CI around median	0.02	0.0710	Background	No Exceedance
AW-05	UA	E004	Mercury, total	mg/L	11/09/15 - 02/08/24	17	94	CI around median	0.0002	0.002	Standard	No Exceedance
AW-05	UA	E004	Molybdenum, total	mg/L	11/09/15 - 02/08/24	17	0	CI around mean	0.00208	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-05	UA	E004	pH (field)	SU	11/09/15 - 02/08/24	18	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-05	UA	E004	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 02/08/24	17	0	CI around mean	0.664	9.60	Background	No Exceedance
AW-05	UA	E004	Selenium, total	mg/L	11/09/15 - 02/08/24	17	53	CI around median	0.001	0.05	Standard	No Exceedance
AW-05	UA	E004	Sulfate, total	mg/L	11/09/15 - 02/08/24	18	0	CI around median	280	400	Standard	No Exceedance
AW-05	UA	E004	Thallium, total	mg/L	11/09/15 - 02/08/24	16	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-05	UA	E004	Total Dissolved Solids	mg/L	11/09/15 - 02/08/24	18	0	CI around geomean	1,020	1,200	Standard	No Exceedance
AW-06	UA	E004	Antimony, total	mg/L	11/10/15 - 02/07/24	18	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-06	UA	E004	Arsenic, total	mg/L	11/10/15 - 02/07/24	23	0	CI around geomean	0.00315	0.0300	Background	No Exceedance
AW-06	UA	E004	Barium, total	mg/L	11/10/15 - 02/07/24	23	0	CI around median	0.18	2.07	Background	No Exceedance
AW-06	UA	E004	Beryllium, total	mg/L	11/10/15 - 02/07/24	23	87	CI around median	0.001	0.004	Standard	No Exceedance
AW-06	UA	E004	Boron, total	mg/L	11/10/15 - 02/07/24	24	0	CB around linear reg	0.0566	2	Standard	No Exceedance
AW-06	UA	E004	Cadmium, total	mg/L	11/10/15 - 02/07/24	18	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-06	UA	E004	Chloride, total	mg/L	11/10/15 - 02/07/24	24	0	CB around T-S line	13.8	200	Standard	No Exceedance
AW-06	UA	E004	Chromium, total	mg/L	11/10/15 - 02/07/24	23	52	CI around median	0.004	0.1	Standard	No Exceedance
AW-06	UA	E004	Cobalt, total	mg/L	11/10/15 - 02/07/24	23	56	CI around median	0.002	0.0280	Background	No Exceedance
AW-06	UA	E004	Fluoride, total	mg/L	11/10/15 - 02/07/24	24	8	CB around T-S line	0.188	4.0	Standard	No Exceedance
AW-06	UA	E004	Lead, total	mg/L	11/10/15 - 02/07/24	23	35	CI around median	0.001	0.0330	Background	No Exceedance
AW-06	UA	E004	Lithium, total	mg/L	11/10/15 - 02/07/24	23	48	CI around geomean	0.0128	0.0710	Background	No Exceedance
AW-06	UA	E004	Mercury, total	mg/L	11/10/15 - 02/07/24	18	94	CI around median	0.0002	0.002	Standard	No Exceedance
AW-06	UA	E004	Molybdenum, total	mg/L	11/10/15 - 02/07/24	23	0	CI around mean	0.00487	0.1	Standard	No Exceedance
AW-06	UA	E004	pH (field)	SU	11/10/15 - 02/07/24	24	0	CI around median	7.1/7.3	6.3/9.0	Background/Standard	No Exceedance
AW-06	UA	E004	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 02/07/24	23	0	CI around mean	0.708	9.60	Background	No Exceedance
AW-06	UA	E004	Selenium, total	mg/L	11/10/15 - 02/07/24	23	74	CI around median	0.001	0.05	Standard	No Exceedance
AW-06	UA	E004	Sulfate, total	mg/L	11/10/15 - 02/07/24	24	0	CB around linear reg	17.5	400	Standard	No Exceedance
AW-06	UA	E004	Thallium, total	mg/L	11/10/15 - 02/07/24	18	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-06	UA	E004	Total Dissolved Solids	mg/L	11/10/15 - 02/07/24	24	0	CI around mean	512	1,200	Standard	No Exceedance
AW-09	UA	E004	Antimony, total	mg/L	11/10/15 - 02/07/24	18	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
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845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-09	UA	E004	Arsenic, total	mg/L	11/10/15 - 02/07/24	23	13	CI around mean	0.0113	0.0300	Background	No Exceedance
AW-09	UA	E004	Barium, total	mg/L	11/10/15 - 02/07/24	23	0	CI around geomean	0.29	2.07	Background	No Exceedance
AW-09	UA	E004	Beryllium, total	mg/L	11/10/15 - 02/07/24	23	83	CB around T-S line	-0.000357	0.004	Standard	No Exceedance
AW-09	UA	E004	Boron, total	mg/L	11/10/15 - 02/07/24	24	0	CB around linear reg	-0.102	2	Standard	No Exceedance
AW-09	UA	E004	Cadmium, total	mg/L	11/10/15 - 02/07/24	18	89	CI around median	0.001	0.005	Standard	No Exceedance
AW-09	UA	E004	Chloride, total	mg/L	11/10/15 - 02/07/24	24	0	CI around median	27	200	Standard	No Exceedance
AW-09	UA	E004	Chromium, total	mg/L	11/10/15 - 02/07/24	23	56	CB around T-S line	-0.0511	0.1	Standard	No Exceedance
AW-09	UA	E004	Cobalt, total	mg/L	11/10/15 - 02/07/24	23	4	CB around T-S line	-0.0271	0.0280	Background	No Exceedance
AW-09	UA	E004	Fluoride, total	mg/L	11/10/15 - 02/07/24	24	62	CB around T-S line	0.187	4.0	Standard	No Exceedance
AW-09	UA	E004	Lead, total	mg/L	11/10/15 - 02/07/24	23	44	CI around median	0.001	0.0330	Background	No Exceedance
AW-09	UA	E004	Lithium, total	mg/L	11/10/15 - 02/07/24	23	35	CB around T-S line	-0.0509	0.0710	Background	No Exceedance
AW-09	UA	E004	Mercury, total	mg/L	11/10/15 - 02/07/24	18	94	CI around median	0.0002	0.002	Standard	No Exceedance
AW-09	UA	E004	Molybdenum, total	mg/L	11/10/15 - 02/07/24	23	0	CI around mean	0.0143	0.1	Standard	No Exceedance
AW-09	UA	E004	pH (field)	SU	11/10/15 - 02/07/24	24	0	CB around linear reg	6.9/7.2	6.3/9.0	Background/Standard	No Exceedance
AW-09	UA	E004	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 02/07/24	23	0	CI around median	0.729	9.60	Background	No Exceedance
AW-09	UA	E004	Selenium, total	mg/L	11/10/15 - 02/07/24	23	65	CB around T-S line	-0.00204	0.05	Standard	No Exceedance
AW-09	UA	E004	Sulfate, total	mg/L	11/10/15 - 02/07/24	24	54	CB around T-S line	-22.2	400	Standard	No Exceedance
AW-09	UA	E004	Thallium, total	mg/L	11/10/15 - 02/07/24	18	94	CI around median	0.001	0.002	Standard	No Exceedance
AW-09	UA	E004	Total Dissolved Solids	mg/L	11/10/15 - 02/07/24	24	0	CB around T-S line	756	1,200	Standard	No Exceedance
AW-10	UA	E004	Antimony, total	mg/L	11/09/15 - 02/08/24	19	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-10	UA	E004	Arsenic, total	mg/L	11/09/15 - 02/08/24	24	0	CI around median	0.0099	0.0300	Background	No Exceedance
AW-10	UA	E004	Barium, total	mg/L	11/09/15 - 02/08/24	24	0	CI around median	0.98	2.07	Background	No Exceedance
AW-10	UA	E004	Beryllium, total	mg/L	11/09/15 - 02/08/24	24	75	CI around median	0.001	0.004	Standard	No Exceedance
AW-10	UA	E004	Boron, total	mg/L	11/09/15 - 02/08/24	25	0	CI around mean	0.463	2	Standard	No Exceedance
AW-10	UA	E004	Cadmium, total	mg/L	11/09/15 - 02/08/24	19	95	CI around median	0.001	0.005	Standard	No Exceedance
AW-10	UA	E004	Chloride, total	mg/L	11/09/15 - 02/08/24	25	0	CI around geomean	87.1	200	Standard	No Exceedance
AW-10	UA	E004	Chromium, total	mg/L	11/09/15 - 02/08/24	24	33	CI around median	0.004	0.1	Standard	No Exceedance

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845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-10	UA	E004	Cobalt, total	mg/L	11/09/15 - 02/08/24	24	4	CI around geomean	0.00378	0.0280	Background	No Exceedance
AW-10	UA	E004	Fluoride, total	mg/L	11/09/15 - 02/08/24	25	96	CI around median	0.25	4.0	Standard	No Exceedance
AW-10	UA	E004	Lead, total	mg/L	11/09/15 - 02/08/24	24	12	CI around geomean	0.002	0.0330	Background	No Exceedance
AW-10	UA	E004	Lithium, total	mg/L	11/09/15 - 02/08/24	24	0	CB around T-S line	-0.0292	0.0710	Background	No Exceedance
AW-10	UA	E004	Mercury, total	mg/L	11/09/15 - 02/08/24	19	95	CI around median	0.0002	0.002	Standard	No Exceedance
AW-10	UA	E004	Molybdenum, total	mg/L	11/09/15 - 02/08/24	24	25	CB around T-S line	-0.000447	0.1	Standard	No Exceedance
AW-10	UA	E004	pH (field)	SU	11/09/15 - 02/08/24	26	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-10	UA	E004	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 02/08/24	24	0	CI around mean	2.32	9.60	Background	No Exceedance
AW-10	UA	E004	Selenium, total	mg/L	11/09/15 - 02/08/24	24	62	CI around median	0.001	0.05	Standard	No Exceedance
AW-10	UA	E004	Sulfate, total	mg/L	11/09/15 - 02/08/24	25	80	CB around T-S line	0.794	400	Standard	No Exceedance
AW-10	UA	E004	Thallium, total	mg/L	11/09/15 - 02/08/24	19	95	CI around median	0.001	0.002	Standard	No Exceedance
AW-10	UA	E004	Total Dissolved Solids	mg/L	11/09/15 - 02/08/24	25	0	CI around median	1,100	1,200	Standard	No Exceedance
AW-11	UA	E004	Antimony, total	mg/L	11/09/15 - 02/08/24	18	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-11	UA	E004	Arsenic, total	mg/L	11/09/15 - 02/08/24	23	0	CI around geomean	0.00906	0.0300	Background	No Exceedance
AW-11	UA	E004	Barium, total	mg/L	11/09/15 - 02/08/24	23	0	CI around geomean	0.875	2.07	Background	No Exceedance
AW-11	UA	E004	Beryllium, total	mg/L	11/09/15 - 02/08/24	23	78	CI around median	0.001	0.004	Standard	No Exceedance
AW-11	UA	E004	Boron, total	mg/L	11/09/15 - 02/08/24	24	0	CI around mean	0.223	2	Standard	No Exceedance
AW-11	UA	E004	Cadmium, total	mg/L	11/09/15 - 02/08/24	18	83	CI around median	0.001	0.005	Standard	No Exceedance
AW-11	UA	E004	Chloride, total	mg/L	11/09/15 - 02/08/24	24	0	CI around mean	31.3	200	Standard	No Exceedance
AW-11	UA	E004	Chromium, total	mg/L	11/09/15 - 02/08/24	23	52	CB around T-S line	-0.0197	0.1	Standard	No Exceedance
AW-11	UA	E004	Cobalt, total	mg/L	11/09/15 - 02/08/24	23	30	CB around T-S line	-0.00666	0.0280	Background	No Exceedance
AW-11	UA	E004	Fluoride, total	mg/L	11/09/15 - 02/08/24	24	88	CI around median	0.25	4.0	Standard	No Exceedance
AW-11	UA	E004	Lead, total	mg/L	11/09/15 - 02/08/24	23	39	CB around T-S line	-0.0096	0.0330	Background	No Exceedance
AW-11	UA	E004	Lithium, total	mg/L	11/09/15 - 02/08/24	23	17	CB around T-S line	-0.0107	0.0710	Background	No Exceedance
AW-11	UA	E004	Mercury, total	mg/L	11/09/15 - 02/08/24	18	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-11	UA	E004	Molybdenum, total	mg/L	11/09/15 - 02/08/24	23	9	CB around linear reg	-0.00135	0.1	Standard	No Exceedance
AW-11	UA	E004	pH (field)	SU	11/09/15 - 02/08/24	24	0	CI around median	6.9/7.2	6.3/9.0	Background/Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-11	UA	E004	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 02/08/24	23	0	CI around geomean	1.56	9.60	Background	No Exceedance
AW-11	UA	E004	Selenium, total	mg/L	11/09/15 - 02/08/24	23	70	CB around T-S line	0.000228	0.05	Standard	No Exceedance
AW-11	UA	E004	Sulfate, total	mg/L	11/09/15 - 02/08/24	24	67	CB around T-S line	0.235	400	Standard	No Exceedance
AW-11	UA	E004	Thallium, total	mg/L	11/09/15 - 02/08/24	18	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-11	UA	E004	Total Dissolved Solids	mg/L	11/09/15 - 02/08/24	24	0	CB around T-S line	920	1,200	Standard	No Exceedance
AW-14	UA	E004	Antimony, total	mg/L	02/11/21 - 02/08/24	12	92	CI around median	0.003	0.006	Standard	No Exceedance
AW-14	UA	E004	Arsenic, total	mg/L	02/11/21 - 02/08/24	12	0	CB around linear reg	0.00037	0.0300	Background	No Exceedance
AW-14	UA	E004	Barium, total	mg/L	02/11/21 - 02/08/24	12	0	CI around mean	0.63	2.07	Background	No Exceedance
AW-14	UA	E004	Beryllium, total	mg/L	02/11/21 - 02/08/24	12	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-14	UA	E004	Boron, total	mg/L	02/11/21 - 02/08/24	12	0	CI around median	0.17	2	Standard	No Exceedance
AW-14	UA	E004	Cadmium, total	mg/L	02/11/21 - 02/08/24	12	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-14	UA	E004	Chloride, total	mg/L	02/11/21 - 02/08/24	12	0	CI around geomean	23.2	200	Standard	No Exceedance
AW-14	UA	E004	Chromium, total	mg/L	02/11/21 - 02/08/24	12	92	CI around median	0.004	0.1	Standard	No Exceedance
AW-14	UA	E004	Cobalt, total	mg/L	02/11/21 - 02/08/24	12	17	CB around linear reg	-0.00202	0.0280	Background	No Exceedance
AW-14	UA	E004	Fluoride, total	mg/L	02/11/21 - 02/08/24	12	83	CI around median	0.25	4.0	Standard	No Exceedance
AW-14	UA	E004	Lead, total	mg/L	02/11/21 - 02/08/24	12	67	CI around median	0.001	0.0330	Background	No Exceedance
AW-14	UA	E004	Lithium, total	mg/L	02/11/21 - 02/08/24	12	58	CI around median	0.02	0.0710	Background	No Exceedance
AW-14	UA	E004	Mercury, total	mg/L	02/11/21 - 02/08/24	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-14	UA	E004	Molybdenum, total	mg/L	02/11/21 - 02/08/24	12	25	CI around geomean	0.0015	0.1	Standard	No Exceedance
AW-14	UA	E004	pH (field)	SU	02/11/21 - 02/08/24	12	0	CI around mean	6.8/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-14	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 02/08/24	12	0	CI around mean	1.87	9.60	Background	No Exceedance
AW-14	UA	E004	Selenium, total	mg/L	02/11/21 - 02/08/24	12	83	CI around median	0.001	0.05	Standard	No Exceedance
AW-14	UA	E004	Sulfate, total	mg/L	02/11/21 - 02/08/24	12	17	CI around geomean	1.89	400	Standard	No Exceedance
AW-14	UA	E004	Thallium, total	mg/L	02/11/21 - 02/08/24	12	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-14	UA	E004	Total Dissolved Solids	mg/L	02/11/21 - 02/08/24	12	0	CI around mean	914	1,200	Standard	No Exceedance
AW-15	UA	E004	Antimony, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-15	UA	E004	Arsenic, total	mg/L	02/12/21 - 02/08/24	10	0	CI around mean	0.00171	0.0300	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-15	UA	E004	Barium, total	mg/L	02/12/21 - 02/08/24	10	0	CI around mean	1.64	2.07	Background	No Exceedance
AW-15	UA	E004	Beryllium, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-15	UA	E004	Boron, total	mg/L	02/12/21 - 02/08/24	10	0	CI around mean	0.346	2	Standard	No Exceedance
AW-15	UA	E004	Cadmium, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-15	UA	E004	Chloride, total	mg/L	02/12/21 - 02/08/24	10	0	CI around mean	33.4	200	Standard	No Exceedance
AW-15	UA	E004	Chromium, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-15	UA	E004	Cobalt, total	mg/L	02/12/21 - 02/08/24	10	90	CI around median	0.002	0.0280	Background	No Exceedance
AW-15	UA	E004	Fluoride, total	mg/L	02/12/21 - 02/08/24	10	80	CI around median	0.25	4.0	Standard	No Exceedance
AW-15	UA	E004	Lead, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-15	UA	E004	Lithium, total	mg/L	02/12/21 - 02/08/24	10	0	CI around mean	0.0286	0.0710	Background	No Exceedance
AW-15	UA	E004	Mercury, total	mg/L	02/12/21 - 02/08/24	10	90	CI around median	0.0002	0.002	Standard	No Exceedance
AW-15	UA	E004	Molybdenum, total	mg/L	02/12/21 - 02/08/24	10	80	CI around median	0.001	0.1	Standard	No Exceedance
AW-15	UA	E004	pH (field)	SU	02/12/21 - 02/08/24	9	0	CI around mean	6.7/6.9	6.3/9.0	Background/Standard	No Exceedance
AW-15	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 02/08/24	10	0	CI around mean	3.25	9.60	Background	No Exceedance
AW-15	UA	E004	Selenium, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-15	UA	E004	Sulfate, total	mg/L	02/12/21 - 02/08/24	10	90	Most recent sample	1	400	Standard	No Exceedance
AW-15	UA	E004	Thallium, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-15	UA	E004	Total Dissolved Solids	mg/L	02/12/21 - 02/08/24	10	0	CI around mean	916	1,200	Standard	No Exceedance
AW-15S	PMP	E004	Antimony, total	mg/L	02/12/21 - 02/08/24	13	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-15S	PMP	E004	Arsenic, total	mg/L	02/12/21 - 02/08/24	13	62	CI around median	0.001	0.0300	Background	No Exceedance
AW-15S	PMP	E004	Barium, total	mg/L	02/12/21 - 02/08/24	13	0	CB around T-S line	-0.0712	2.07	Background	No Exceedance
AW-15S	PMP	E004	Beryllium, total	mg/L	02/12/21 - 02/08/24	13	92	CI around median	0.001	0.004	Standard	No Exceedance
AW-15S	PMP	E004	Boron, total	mg/L	02/12/21 - 02/08/24	13	0	CI around mean	5.55	2	Standard	Exceedance
AW-15S	PMP	E004	Cadmium, total	mg/L	02/12/21 - 02/08/24	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-15S	PMP	E004	Chloride, total	mg/L	02/12/21 - 02/08/24	13	0	CB around linear reg	21.9	200	Standard	No Exceedance
AW-15S	PMP	E004	Chromium, total	mg/L	02/12/21 - 02/08/24	13	92	CI around median	0.004	0.1	Standard	No Exceedance
AW-15S	PMP	E004	Cobalt, total	mg/L	02/12/21 - 02/08/24	13	92	CI around median	0.002	0.0280	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-15S	PMP	E004	Fluoride, total	mg/L	02/12/21 - 02/08/24	13	31	CI around median	0.25	4.0	Standard	No Exceedance
AW-15S	PMP	E004	Lead, total	mg/L	02/12/21 - 02/08/24	13	85	CI around median	0.001	0.0330	Background	No Exceedance
AW-15S	PMP	E004	Lithium, total	mg/L	02/12/21 - 02/08/24	13	85	CI around median	0.02	0.0710	Background	No Exceedance
AW-15S	PMP	E004	Mercury, total	mg/L	02/12/21 - 02/08/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-15S	PMP	E004	Molybdenum, total	mg/L	02/12/21 - 02/08/24	13	0	CB around linear reg	0.00218	0.1	Standard	No Exceedance
AW-15S	PMP	E004	pH (field)	SU	02/12/21 - 02/08/24	13	0	CI around mean	6.8/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-15S	PMP	E004	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 02/08/24	12	0	CI around mean	0.376	9.60	Background	No Exceedance
AW-15S	PMP	E004	Selenium, total	mg/L	02/12/21 - 02/08/24	13	38	CI around median	0.001	0.05	Standard	No Exceedance
AW-15S	PMP	E004	Sulfate, total	mg/L	02/12/21 - 02/08/24	13	0	CI around mean	520	400	Standard	Exceedance
AW-15S	PMP	E004	Thallium, total	mg/L	02/12/21 - 02/08/24	13	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-15S	PMP	E004	Total Dissolved Solids	mg/L	02/12/21 - 02/08/24	13	0	CI around mean	1,190	1,200	Standard	No Exceedance
AW-16	UA	E004	Antimony, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-16	UA	E004	Arsenic, total	mg/L	02/11/21 - 02/08/24	13	23	CI around mean	0.00116	0.0300	Background	No Exceedance
AW-16	UA	E004	Barium, total	mg/L	02/11/21 - 02/08/24	13	0	CB around linear reg	0.975	2.07	Background	No Exceedance
AW-16	UA	E004	Beryllium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-16	UA	E004	Boron, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	0.461	2	Standard	No Exceedance
AW-16	UA	E004	Cadmium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-16	UA	E004	Chloride, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	49.4	200	Standard	No Exceedance
AW-16	UA	E004	Chromium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-16	UA	E004	Cobalt, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-16	UA	E004	Fluoride, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.25	4.0	Standard	No Exceedance
AW-16	UA	E004	Lead, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-16	UA	E004	Lithium, total	mg/L	02/11/21 - 02/08/24	13	0	CI around median	0.032	0.0710	Background	No Exceedance
AW-16	UA	E004	Mercury, total	mg/L	02/11/21 - 02/08/24	13	92	CI around median	0.0002	0.002	Standard	No Exceedance
AW-16	UA	E004	Molybdenum, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.1	Standard	No Exceedance
AW-16	UA	E004	pH (field)	SU	02/11/21 - 02/08/24	13	0	CI around mean	6.6/6.8	6.3/9.0	Background/Standard	No Exceedance
AW-16	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 02/08/24	13	0	CB around linear reg	1.78	9.60	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-16	UA	E004	Selenium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-16	UA	E004	Sulfate, total	mg/L	02/11/21 - 02/08/24	13	85	CI around median	1	400	Standard	No Exceedance
AW-16	UA	E004	Thallium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-16	UA	E004	Total Dissolved Solids	mg/L	02/11/21 - 02/08/24	13	0	CI around geomean	1,060	1,200	Standard	No Exceedance
AW-17	UA	E004	Antimony, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-17	UA	E004	Arsenic, total	mg/L	02/11/21 - 02/08/24	13	0	CB around linear reg	0.00227	0.0300	Background	No Exceedance
AW-17	UA	E004	Barium, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	1.02	2.07	Background	No Exceedance
AW-17	UA	E004	Beryllium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-17	UA	E004	Boron, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	0.417	2	Standard	No Exceedance
AW-17	UA	E004	Cadmium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-17	UA	E004	Chloride, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	52	200	Standard	No Exceedance
AW-17	UA	E004	Chromium, total	mg/L	02/11/21 - 02/08/24	13	69	CI around median	0.004	0.1	Standard	No Exceedance
AW-17	UA	E004	Cobalt, total	mg/L	02/11/21 - 02/08/24	13	0	CI around median	0.0022	0.0280	Background	No Exceedance
AW-17	UA	E004	Fluoride, total	mg/L	02/11/21 - 02/08/24	13	92	CI around median	0.25	4.0	Standard	No Exceedance
AW-17	UA	E004	Lead, total	mg/L	02/11/21 - 02/08/24	13	69	CI around median	0.001	0.0330	Background	No Exceedance
AW-17	UA	E004	Lithium, total	mg/L	02/11/21 - 02/08/24	13	0	CB around linear reg	0.00358	0.0710	Background	No Exceedance
AW-17	UA	E004	Mercury, total	mg/L	02/11/21 - 02/08/24	13	92	CI around median	0.0002	0.002	Standard	No Exceedance
AW-17	UA	E004	Molybdenum, total	mg/L	02/11/21 - 02/08/24	13	46	CB around linear reg	-1.69e-05	0.1	Standard	No Exceedance
AW-17	UA	E004	pH (field)	SU	02/11/21 - 02/08/24	13	0	CI around mean	6.6/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-17	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 02/08/24	13	0	CI around mean	2.56	9.60	Background	No Exceedance
AW-17	UA	E004	Selenium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-17	UA	E004	Sulfate, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	1	400	Standard	No Exceedance
AW-17	UA	E004	Thallium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-17	UA	E004	Total Dissolved Solids	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	835	1,200	Standard	No Exceedance
AW-18	UA	E004	Antimony, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-18	UA	E004	Arsenic, total	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	0.00333	0.0300	Background	No Exceedance
AW-18	UA	E004	Barium, total	mg/L	02/11/21 - 02/07/24	13	0	CB around linear reg	1.21	2.07	Background	No Exceedance

TABLE 2.
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845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-18	UA	E004	Beryllium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-18	UA	E004	Boron, total	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	0.594	2	Standard	No Exceedance
AW-18	UA	E004	Cadmium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-18	UA	E004	Chloride, total	mg/L	02/11/21 - 02/07/24	13	0	CB around linear reg	83.7	200	Standard	No Exceedance
AW-18	UA	E004	Chromium, total	mg/L	02/11/21 - 02/07/24	13	92	CI around median	0.004	0.1	Standard	No Exceedance
AW-18	UA	E004	Cobalt, total	mg/L	02/11/21 - 02/07/24	13	77	CI around median	0.002	0.0280	Background	No Exceedance
AW-18	UA	E004	Fluoride, total	mg/L	02/11/21 - 02/07/24	13	54	CI around median	0.25	4.0	Standard	No Exceedance
AW-18	UA	E004	Lead, total	mg/L	02/11/21 - 02/07/24	13	77	CI around median	0.001	0.0330	Background	No Exceedance
AW-18	UA	E004	Lithium, total	mg/L	02/11/21 - 02/07/24	13	0	CB around linear reg	-0.0217	0.0710	Background	No Exceedance
AW-18	UA	E004	Mercury, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-18	UA	E004	Molybdenum, total	mg/L	02/11/21 - 02/07/24	13	0	CB around linear reg	-0.0118	0.1	Standard	No Exceedance
AW-18	UA	E004	pH (field)	SU	02/11/21 - 02/07/24	13	0	CI around mean	6.7/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-18	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 02/07/24	13	0	CI around mean	2.38	9.60	Background	No Exceedance
AW-18	UA	E004	Selenium, total	mg/L	02/11/21 - 02/07/24	13	92	CI around median	0.001	0.05	Standard	No Exceedance
AW-18	UA	E004	Sulfate, total	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	4.19	400	Standard	No Exceedance
AW-18	UA	E004	Thallium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-18	UA	E004	Total Dissolved Solids	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	789	1,200	Standard	No Exceedance
AW-19	UA	E004	Antimony, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-19	UA	E004	Arsenic, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	0.0114	0.0300	Background	No Exceedance
AW-19	UA	E004	Barium, total	mg/L	02/11/21 - 02/08/24	13	0	CI around median	0.18	2.07	Background	No Exceedance
AW-19	UA	E004	Beryllium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-19	UA	E004	Boron, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	2.55	2	Standard	Exceedance
AW-19	UA	E004	Cadmium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-19	UA	E004	Chloride, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	76.6	200	Standard	No Exceedance
AW-19	UA	E004	Chromium, total	mg/L	02/11/21 - 02/08/24	13	69	CI around median	0.004	0.1	Standard	No Exceedance
AW-19	UA	E004	Cobalt, total	mg/L	02/11/21 - 02/08/24	13	69	CI around median	0.002	0.0280	Background	No Exceedance
AW-19	UA	E004	Fluoride, total	mg/L	02/11/21 - 02/08/24	13	8	CB around linear reg	0.13	4.0	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

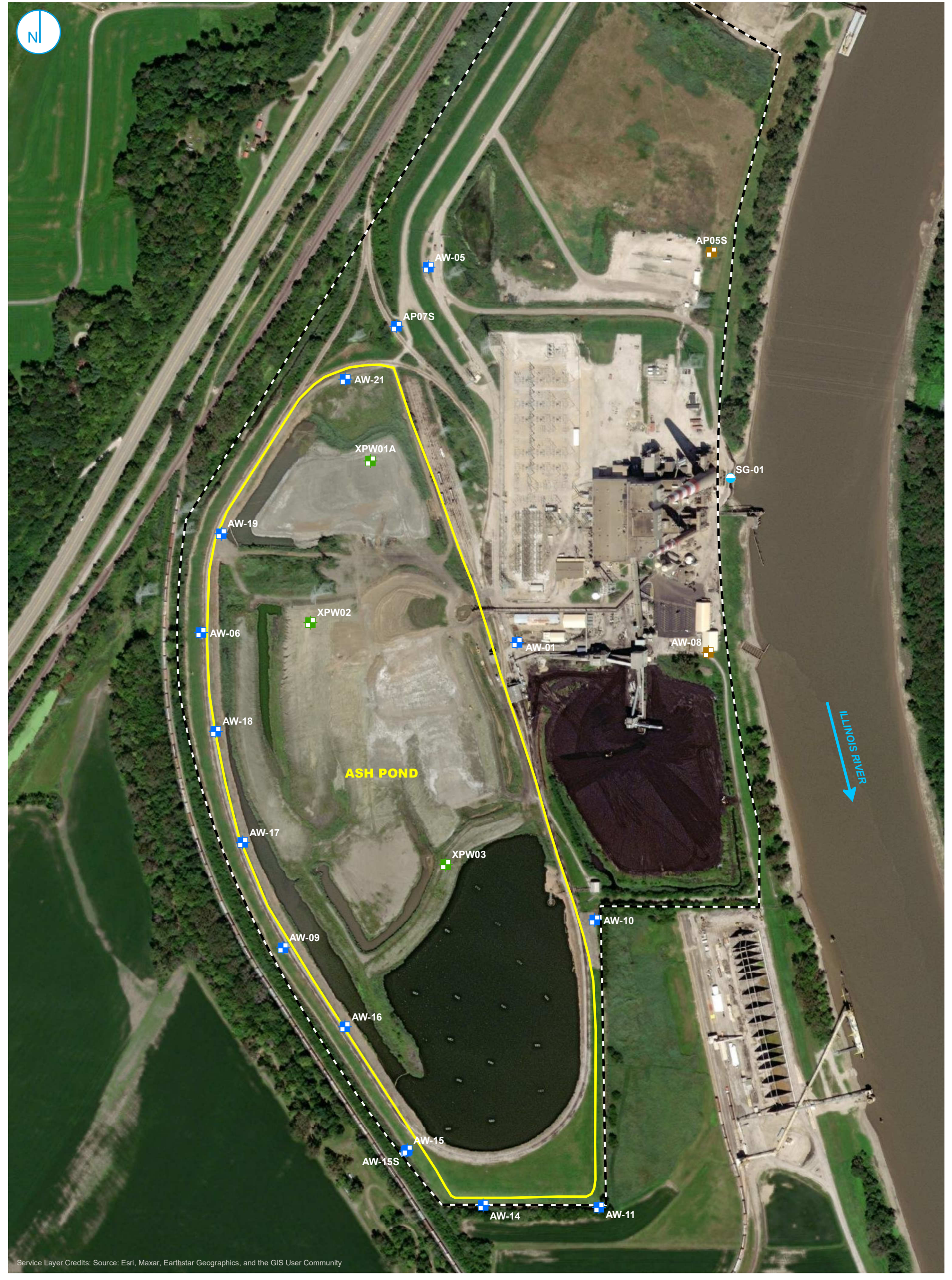
Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-19	UA	E004	Lead, total	mg/L	02/11/21 - 02/08/24	13	46	CI around median	0.001	0.0330	Background	No Exceedance
AW-19	UA	E004	Lithium, total	mg/L	02/11/21 - 02/08/24	13	69	CI around median	0.02	0.0710	Background	No Exceedance
AW-19	UA	E004	Mercury, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-19	UA	E004	Molybdenum, total	mg/L	02/11/21 - 02/08/24	13	0	CI around median	0.0035	0.1	Standard	No Exceedance
AW-19	UA	E004	pH (field)	SU	02/11/21 - 02/08/24	13	0	CI around mean	6.7/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-19	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 02/08/24	13	0	CI around mean	0.483	9.60	Background	No Exceedance
AW-19	UA	E004	Selenium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-19	UA	E004	Sulfate, total	mg/L	02/11/21 - 02/08/24	13	0	CB around linear reg	52.4	400	Standard	No Exceedance
AW-19	UA	E004	Thallium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-19	UA	E004	Total Dissolved Solids	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	560	1,200	Standard	No Exceedance
AW-21	UA	E004	Antimony, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-21	UA	E004	Arsenic, total	mg/L	02/11/21 - 02/07/24	13	23	CI around mean	0.00108	0.0300	Background	No Exceedance
AW-21	UA	E004	Barium, total	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	0.0599	2.07	Background	No Exceedance
AW-21	UA	E004	Beryllium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-21	UA	E004	Boron, total	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	10.4	2	Standard	Exceedance
AW-21	UA	E004	Cadmium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-21	UA	E004	Chloride, total	mg/L	02/11/21 - 02/07/24	13	0	CI around median	83	200	Standard	No Exceedance
AW-21	UA	E004	Chromium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-21	UA	E004	Cobalt, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-21	UA	E004	Fluoride, total	mg/L	02/11/21 - 02/07/24	13	8	CB around linear reg	0.0908	4.0	Standard	No Exceedance
AW-21	UA	E004	Lead, total	mg/L	02/11/21 - 02/07/24	13	92	CI around median	0.001	0.0330	Background	No Exceedance
AW-21	UA	E004	Lithium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-21	UA	E004	Mercury, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-21	UA	E004	Molybdenum, total	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	0.0173	0.1	Standard	No Exceedance
AW-21	UA	E004	pH (field)	SU	02/11/21 - 02/07/24	13	0	CI around median	7.1/7.3	6.3/9.0	Background/Standard	No Exceedance
AW-21	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 02/07/24	13	0	CI around mean	0.469	9.60	Background	No Exceedance
AW-21	UA	E004	Selenium, total	mg/L	02/11/21 - 02/07/24	13	69	CB around T-S line	0.001	0.05	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-21	UA	E004	Sulfate, total	mg/L	02/11/21 - 02/07/24	13	0	CI around median	230	400	Standard	No Exceedance
AW-21	UA	E004	Thallium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-21	UA	E004	Total Dissolved Solids	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	639	1,200	Standard	No Exceedance

Notes:
Compliance Result:
 No Exceedance: the statistical result did not exceed the GWPS.
 Exceedance: The statistical result exceeded the GWPS.
HSU = hydrostratigraphic unit:
 PMP = Potential Migration Pathway
 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 WELL
- BACKGROUND WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

0 200 400 Feet

MONITORING WELL LOCATION MAP

ASH POND
EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
SUMMARY OF GROUNDWATER ELEVATION DATA
QUARTER 1, 2024**

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
AP05S	Background	02/06/2024	4.63	438.38
AP07S	Compliance	02/06/2024	24.43	436.59
AW-01	Compliance	02/06/2024	9.59	455.01
AW-05	Compliance	02/06/2024	8.15	435.16
AW-06	Compliance	02/06/2024	26.73	434.84
AW-08	Background	02/06/2024	21.93	440.61
AW-09	Compliance	02/06/2024	26.04	435.41
AW-10	Compliance	02/06/2024	1.99	438.11
AW-11	Compliance	02/06/2024	6.00	434.04
AW-14	Compliance	02/06/2024	6.76	432.64
AW-15	Compliance	02/06/2024	8.78	432.90
AW-15S	Compliance	02/06/2024	9.50	431.38
AW-16	Compliance	02/06/2024	25.14	436.82
AW-17	Compliance	02/06/2024	26.00	436.27
AW-18	Compliance	02/06/2024	27.23	435.59
AW-19	Compliance	02/06/2024	13.73	447.18
AW-21	Compliance	02/06/2024	16.71	444.07
XPW01A	Water Level	02/06/2024	11.48	452.85
XPW02	Water Level	02/06/2024	19.36	454.60
XPW03	Water Level	02/06/2024	16.57	449.64
SG-01	Water Level	02/06/2024	NA	446.82

Notes:
BMP = below measuring point
NA = not available/not applicable
NAVD88 = North American Vertical Datum of 1988

ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 1, 2024



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

February 26, 2024

Brian Voelker
Vistra - Edwards
604 Pierce Boulevard
O'Fallon, IL 62269

Dear Brian Voelker:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Sincerely,

A handwritten signature in cursive script, appearing to read "Diane Billings".

Diane Billings
Project Manager

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order	HB01318
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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided

Work Order HB01601

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided

ANALYTICAL RESULTS

Sample: HB01318-01
Name: AW-06
Matrix: Ground Water - Grab

Sampled: 02/07/24 14:19
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	35	mg/L	Q4	02/13/24 16:16	10	10	02/13/24 16:16	KCS1	EPA 300.0 REV 2.1
Fluoride	0.263	mg/L		02/13/24 15:16	1	0.250	02/13/24 15:16	KCS1	EPA 300.0 REV 2.1
Sulfate	22	mg/L	Q4	02/13/24 16:16	10	10	02/13/24 16:16	KCS1	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	26.71	Feet		02/07/24 14:19	1		02/07/24 14:19	FIELD	Field*
Dissolved oxygen, Field	0.83	mg/L		02/07/24 14:19	1		02/07/24 14:19	FIELD	Field*
Oxidation Reduction Potential	-100	mV		02/07/24 14:19	1	-500	02/07/24 14:19	FIELD	Field*
pH, Field Measured	7.31	pH Units		02/07/24 14:19	1		02/07/24 14:19	FIELD	Field*
Specific Conductance, Field Measured	801.0	umhos/cm		02/07/24 14:19	1		02/07/24 14:19	FIELD	Field*
Temperature, Field Measured	12.5	°C		02/07/24 14:19	1		02/07/24 14:19	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		02/07/24 14:19	1	0.00	02/07/24 14:19	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	450	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	550	mg/L		02/13/24 09:55	1	17	02/13/24 11:10	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/08/24 08:01	5	3.0	02/15/24 16:45	TJJ	EPA 6020A
Arsenic	8.4	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:45	TJJ	EPA 6020A
Barium	230	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:45	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:45	TJJ	EPA 6020A
Boron	97	ug/L		02/08/24 08:01	5	10	02/16/24 10:05	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:45	TJJ	EPA 6020A
Calcium	130	mg/L		02/08/24 08:01	5	0.20	02/15/24 16:45	TJJ	EPA 6020A
Chromium	4.6	ug/L		02/08/24 08:01	5	4.0	02/15/24 16:45	TJJ	EPA 6020A
Cobalt	2.7	ug/L		02/08/24 08:01	5	2.0	02/15/24 16:45	TJJ	EPA 6020A
Lead	2.4	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:45	TJJ	EPA 6020A
Magnesium	49	mg/L		02/08/24 08:01	5	0.10	02/15/24 16:45	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/08/24 08:01	5	0.20	02/16/24 10:05	TJJ	EPA 6020A
Molybdenum	6.4	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:45	TJJ	EPA 6020A
Potassium	1.1	mg/L		02/08/24 08:01	5	0.10	02/15/24 16:45	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:45	TJJ	EPA 6020A
Sodium	43	mg/L		02/08/24 08:01	5	0.10	02/15/24 16:45	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01318-01
Name: AW-06
Matrix: Ground Water - Grab

Sampled: 02/07/24 14:19
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:45	TJJ	EPA 6020A
Lithium	< 20	ug/L		02/08/24 08:01	1	20	02/09/24 13:04	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01318-02
Name: AW-06 DUP
Matrix: Ground Water - Grab

Sampled: 02/07/24 14:19
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	32	mg/L	Q4	02/13/24 18:17	10	10	02/13/24 18:17	KCS1	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/13/24 17:16	1	0.250	02/13/24 17:16	KCS1	EPA 300.0 REV 2.1
Sulfate	29	mg/L	Q4	02/13/24 18:17	10	10	02/13/24 18:17	KCS1	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	26.71	Feet		02/07/24 14:19	1		02/07/24 14:19	FIELD	Field*
Dissolved oxygen, Field	0.83	mg/L		02/07/24 14:19	1		02/07/24 14:19	FIELD	Field*
Oxidation Reduction Potential	-100	mV		02/07/24 14:19	1	-500	02/07/24 14:19	FIELD	Field*
pH, Field Measured	7.31	pH Units		02/07/24 14:19	1		02/07/24 14:19	FIELD	Field*
Specific Conductance, Field Measured	801.0	umhos/cm		02/07/24 14:19	1		02/07/24 14:19	FIELD	Field*
Temperature, Field Measured	12.5	°C		02/07/24 14:19	1		02/07/24 14:19	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		02/07/24 14:19	1	0.00	02/07/24 14:19	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	480	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	570	mg/L		02/13/24 09:55	1	17	02/13/24 11:10	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/08/24 08:01	5	3.0	02/15/24 16:49	TJJ	EPA 6020A
Arsenic	6.7	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:49	TJJ	EPA 6020A
Barium	210	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:49	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:49	TJJ	EPA 6020A
Boron	97	ug/L		02/08/24 08:01	5	10	02/16/24 10:09	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:49	TJJ	EPA 6020A
Calcium	120	mg/L		02/08/24 08:01	5	0.20	02/15/24 16:49	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/08/24 08:01	5	4.0	02/15/24 16:49	TJJ	EPA 6020A
Cobalt	2.0	ug/L		02/08/24 08:01	5	2.0	02/15/24 16:49	TJJ	EPA 6020A
Lead	1.7	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:49	TJJ	EPA 6020A
Magnesium	48	mg/L		02/08/24 08:01	5	0.10	02/15/24 16:49	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/08/24 08:01	5	0.20	02/15/24 16:49	TJJ	EPA 6020A
Molybdenum	6.4	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:49	TJJ	EPA 6020A
Potassium	0.88	mg/L		02/08/24 08:01	5	0.10	02/15/24 16:49	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:49	TJJ	EPA 6020A
Sodium	42	mg/L		02/08/24 08:01	5	0.10	02/15/24 16:49	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01318-02
Name: AW-06 DUP
Matrix: Ground Water - Grab

Sampled: 02/07/24 14:19
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:49	TJJ	EPA 6020A
Lithium	< 20	ug/L		02/08/24 08:01	1	20	02/09/24 13:06	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01318-03
Name: AW-09
Matrix: Ground Water - Grab

Sampled: 02/07/24 12:17
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	27	mg/L		02/13/24 18:57	10	10	02/13/24 18:57	KCS1	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/13/24 18:37	1	0.250	02/13/24 18:37	KCS1	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		02/13/24 18:37	1	1.0	02/13/24 18:37	KCS1	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	26.01	Feet		02/07/24 12:17	1		02/07/24 12:17	FIELD	Field*
Dissolved oxygen, Field	1.4	mg/L		02/07/24 12:17	1		02/07/24 12:17	FIELD	Field*
Oxidation Reduction Potential	-141	mV		02/07/24 12:17	1	-500	02/07/24 12:17	FIELD	Field*
pH, Field Measured	7.10	pH Units		02/07/24 12:17	1		02/07/24 12:17	FIELD	Field*
Specific Conductance, Field Measured	1140	umhos/cm		02/07/24 12:17	1		02/07/24 12:17	FIELD	Field*
Temperature, Field Measured	12.7	°C		02/07/24 12:17	1		02/07/24 12:17	FIELD	Field*
Turbidity, Field Measured	34.6	NTU		02/07/24 12:17	1	0.00	02/07/24 12:17	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	750	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	760	mg/L		02/13/24 09:55	1	17	02/13/24 11:10	OGS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		02/08/24 08:01	5	3.0	02/15/24 16:53	TJJ	EPA 6020A
Arsenic	27	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:53	TJJ	EPA 6020A
Barium	460	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:53	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:53	TJJ	EPA 6020A
Boron	280	ug/L		02/08/24 08:01	5	10	02/16/24 10:13	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:53	TJJ	EPA 6020A
Calcium	120	mg/L		02/08/24 08:01	5	0.20	02/15/24 16:53	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/08/24 08:01	5	4.0	02/15/24 16:53	TJJ	EPA 6020A
Cobalt	2.1	ug/L		02/08/24 08:01	5	2.0	02/15/24 16:53	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:53	TJJ	EPA 6020A
Magnesium	49	mg/L		02/08/24 08:01	5	0.10	02/15/24 16:53	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/08/24 08:01	5	0.20	02/15/24 16:53	TJJ	EPA 6020A
Molybdenum	18	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:53	TJJ	EPA 6020A
Potassium	2.0	mg/L		02/08/24 08:01	5	0.10	02/15/24 16:53	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:53	TJJ	EPA 6020A
Sodium	130	mg/L		02/08/24 08:01	5	0.10	02/15/24 16:53	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01318-03
Name: AW-09
Matrix: Ground Water - Grab

Sampled: 02/07/24 12:17
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:53	TJJ	EPA 6020A
Lithium	< 20	ug/L		02/08/24 08:01	1	20	02/09/24 13:08	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01318-04
Name: AW-18
Matrix: Ground Water - Grab

Sampled: 02/07/24 15:33
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	98	mg/L		02/16/24 21:30	25	25	02/16/24 21:30	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/13/24 19:17	1	0.250	02/13/24 19:17	KCS1	EPA 300.0 REV 2.1
Sulfate	2.3	mg/L		02/13/24 19:17	1	1.0	02/13/24 19:17	KCS1	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	27.14	Feet		02/07/24 15:33	1		02/07/24 15:33	FIELD	Field*
Dissolved oxygen, Field	0.69	mg/L		02/07/24 15:33	1		02/07/24 15:33	FIELD	Field*
Oxidation Reduction Potential	-106	mV		02/07/24 15:33	1	-500	02/07/24 15:33	FIELD	Field*
pH, Field Measured	7.05	pH Units		02/07/24 15:33	1		02/07/24 15:33	FIELD	Field*
Specific Conductance, Field Measured	1490	umhos/cm		02/07/24 15:33	1		02/07/24 15:33	FIELD	Field*
Temperature, Field Measured	12.7	°C		02/07/24 15:33	1		02/07/24 15:33	FIELD	Field*
Turbidity, Field Measured	62.0	NTU		02/07/24 15:33	1	0.00	02/07/24 15:33	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	800	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	880	mg/L		02/13/24 09:55	1	17	02/13/24 11:10	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/08/24 08:01	5	3.0	02/15/24 16:57	TJJ	EPA 6020A
Arsenic	3.7	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:57	TJJ	EPA 6020A
Barium	1600	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:57	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:57	TJJ	EPA 6020A
Boron	430	ug/L		02/08/24 08:01	5	10	02/16/24 10:38	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:57	TJJ	EPA 6020A
Calcium	130	mg/L		02/08/24 08:01	5	0.20	02/15/24 16:57	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/08/24 08:01	5	4.0	02/15/24 16:57	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/08/24 08:01	5	2.0	02/15/24 16:57	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:57	TJJ	EPA 6020A
Magnesium	54	mg/L		02/08/24 08:01	5	0.10	02/15/24 16:57	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/08/24 08:01	5	0.20	02/15/24 16:57	TJJ	EPA 6020A
Molybdenum	1.6	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:57	TJJ	EPA 6020A
Potassium	4.1	mg/L		02/08/24 08:01	5	0.10	02/15/24 16:57	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:57	TJJ	EPA 6020A
Sodium	190	mg/L		02/08/24 08:01	5	0.10	02/15/24 16:57	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01318-04
Name: AW-18
Matrix: Ground Water - Grab

Sampled: 02/07/24 15:33
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 16:57	TJJ	EPA 6020A
Lithium	29	ug/L		02/08/24 08:01	1	20	02/09/24 13:15	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01318-05
Name: AW-21
Matrix: Ground Water - Grab

Sampled: 02/07/24 15:19
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	74	mg/L		02/13/24 20:17	50	50	02/13/24 20:17	KCS1	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/13/24 19:57	1	0.250	02/13/24 19:57	KCS1	EPA 300.0 REV 2.1
Sulfate	220	mg/L		02/13/24 20:17	50	50	02/13/24 20:17	KCS1	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	16.79	Feet		02/07/24 15:19	1		02/07/24 15:19	FIELD	Field*
Dissolved oxygen, Field	2.8	mg/L		02/07/24 15:19	1		02/07/24 15:19	FIELD	Field*
Oxidation Reduction Potential	-39.0	mV		02/07/24 15:19	1	-500	02/07/24 15:19	FIELD	Field*
pH, Field Measured	8.94	pH Units		02/07/24 15:19	1		02/07/24 15:19	FIELD	Field*
Specific Conductance, Field Measured	842.0	umhos/cm		02/07/24 15:19	1		02/07/24 15:19	FIELD	Field*
Temperature, Field Measured	12.4	°C		02/07/24 15:19	1		02/07/24 15:19	FIELD	Field*
Turbidity, Field Measured	11.4	NTU		02/07/24 15:19	1	0.00	02/07/24 15:19	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	160	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	580	mg/L		02/13/24 09:55	1	17	02/13/24 11:10	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/08/24 08:01	5	3.0	02/15/24 17:01	TJJ	EPA 6020A
Arsenic	2.6	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:01	TJJ	EPA 6020A
Barium	67	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:01	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:01	TJJ	EPA 6020A
Boron	9300	ug/L		02/08/24 08:01	5	10	02/16/24 10:42	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:01	TJJ	EPA 6020A
Calcium	100	mg/L		02/08/24 08:01	5	0.20	02/15/24 17:01	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/08/24 08:01	5	4.0	02/15/24 17:01	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/08/24 08:01	5	2.0	02/15/24 17:01	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:01	TJJ	EPA 6020A
Magnesium	33	mg/L		02/08/24 08:01	5	0.10	02/15/24 17:01	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/08/24 08:01	5	0.20	02/15/24 17:01	TJJ	EPA 6020A
Molybdenum	22	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:01	TJJ	EPA 6020A
Potassium	2.5	mg/L		02/08/24 08:01	5	0.10	02/15/24 17:01	TJJ	EPA 6020A
Selenium	1.1	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:01	TJJ	EPA 6020A
Sodium	47	mg/L		02/08/24 08:01	5	0.10	02/15/24 17:01	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01318-05
Name: AW-21
Matrix: Ground Water - Grab

Sampled: 02/07/24 15:19
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:01	TJJ	EPA 6020A
Lithium	< 20	ug/L		02/08/24 08:01	1	20	02/09/24 13:18	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01318-06
Name: XPW01A
Matrix: Ground Water - Grab

Sampled: 02/07/24 11:32
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	96	mg/L		02/13/24 21:38	25	25	02/13/24 21:38	KCS1	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/13/24 21:17	1	0.250	02/13/24 21:17	KCS1	EPA 300.0 REV 2.1
Sulfate	240	mg/L		02/14/24 17:54	50	50	02/14/24 17:54	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	11.52	Feet		02/07/24 11:32	1		02/07/24 11:32	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		02/07/24 11:32	1		02/07/24 11:32	FIELD	Field*
Oxidation Reduction Potential	-35.0	mV		02/07/24 11:32	1	-500	02/07/24 11:32	FIELD	Field*
pH, Field Measured	12.4	pH Units		02/07/24 11:32	1		02/07/24 11:32	FIELD	Field*
Specific Conductance, Field Measured	1930	umhos/cm		02/07/24 11:32	1		02/07/24 11:32	FIELD	Field*
Temperature, Field Measured	12.5	°C		02/07/24 11:32	1		02/07/24 11:32	FIELD	Field*
Turbidity, Field Measured	8.10	NTU		02/07/24 11:32	1	0.00	02/07/24 11:32	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	75	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	900	mg/L		02/13/24 09:55	1	17	02/13/24 11:10	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/08/24 08:01	5	3.0	02/15/24 17:05	TJJ	EPA 6020A
Arsenic	120	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:05	TJJ	EPA 6020A
Barium	29	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:05	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:05	TJJ	EPA 6020A
Boron	17000	ug/L		02/08/24 08:01	100	200	02/16/24 12:01	TJJ	EPA 6020A
Cadmium	1.3	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:05	TJJ	EPA 6020A
Calcium	58	mg/L		02/08/24 08:01	5	0.20	02/15/24 17:05	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/08/24 08:01	5	4.0	02/15/24 17:05	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/08/24 08:01	5	2.0	02/15/24 17:05	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:05	TJJ	EPA 6020A
Magnesium	< 0.10	mg/L		02/08/24 08:01	5	0.10	02/15/24 17:05	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/08/24 08:01	5	0.20	02/15/24 17:05	TJJ	EPA 6020A
Molybdenum	3000	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:05	TJJ	EPA 6020A
Potassium	240	mg/L		02/08/24 08:01	5	0.10	02/15/24 17:05	TJJ	EPA 6020A
Selenium	7.6	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:05	TJJ	EPA 6020A
Sodium	110	mg/L		02/08/24 08:01	5	0.10	02/15/24 17:05	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01318-06
Name: XPW01A
Matrix: Ground Water - Grab

Sampled: 02/07/24 11:32
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:05	TJJ	EPA 6020A
Lithium	710	ug/L		02/08/24 08:01	1	20	02/09/24 13:20	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01318-07
Name: XPW02
Matrix: Ground Water - Grab

Sampled: 02/07/24 12:27
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	130	mg/L		02/13/24 21:58	100	100	02/13/24 21:58	KCS1	EPA 300.0 REV 2.1
Sulfate	1200	mg/L		02/14/24 18:14	250	250	02/14/24 18:14	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	19.32	Feet		02/07/24 12:27	1		02/07/24 12:27	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		02/07/24 12:27	1		02/07/24 12:27	FIELD	Field*
Oxidation Reduction Potential	-68.0	mV		02/07/24 12:27	1	-500	02/07/24 12:27	FIELD	Field*
pH, Field Measured	12.9	pH Units		02/07/24 12:27	1		02/07/24 12:27	FIELD	Field*
Specific Conductance, Field Measured	4510	umhos/cm		02/07/24 12:27	1		02/07/24 12:27	FIELD	Field*
Temperature, Field Measured	13.5	°C		02/07/24 12:27	1		02/07/24 12:27	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/07/24 12:27	1	0.00	02/07/24 12:27	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	120	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	0.363	mg/L		02/16/24 16:38	1	0.250	02/16/24 16:38	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	2400	mg/L		02/13/24 09:55	1	17	02/13/24 11:10	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/08/24 08:01	5	3.0	02/15/24 17:16	TJJ	EPA 6020A
Arsenic	180	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:16	TJJ	EPA 6020A
Barium	15	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:16	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:16	TJJ	EPA 6020A
Boron	14000	ug/L		02/08/24 08:01	100	200	02/16/24 12:05	TJJ	EPA 6020A
Cadmium	1.2	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:16	TJJ	EPA 6020A
Calcium	32	mg/L		02/08/24 08:01	5	0.20	02/15/24 17:16	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/08/24 08:01	5	4.0	02/15/24 17:16	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/08/24 08:01	5	2.0	02/15/24 17:16	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:16	TJJ	EPA 6020A
Magnesium	< 0.10	mg/L		02/08/24 08:01	5	0.10	02/15/24 17:16	TJJ	EPA 6020A
Mercury	0.29	ug/L		02/08/24 08:01	5	0.20	02/21/24 11:22	wjm	EPA 6020A
Molybdenum	2900	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:16	TJJ	EPA 6020A
Potassium	110	mg/L		02/08/24 08:01	5	0.10	02/15/24 17:16	TJJ	EPA 6020A
Selenium	190	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:16	TJJ	EPA 6020A
Sodium	790	mg/L		02/08/24 08:01	100	2.0	02/16/24 12:05	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01318-07
Name: XPW02
Matrix: Ground Water - Grab

Sampled: 02/07/24 12:27
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:16	TJJ	EPA 6020A
Lithium	300	ug/L		02/08/24 08:01	1	20	02/09/24 13:23	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01318-08
Name: XPW03
Matrix: Ground Water - Grab

Sampled: 02/07/24 13:52
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	100	mg/L		02/13/24 22:18	50	50	02/13/24 22:18	KCS1	EPA 300.0 REV 2.1
Sulfate	350	mg/L		02/13/24 22:18	50	50	02/13/24 22:18	KCS1	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	16.54	Feet		02/07/24 13:52	1		02/07/24 13:52	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		02/07/24 13:52	1		02/07/24 13:52	FIELD	Field*
Oxidation Reduction Potential	-149	mV		02/07/24 13:52	1	-500	02/07/24 13:52	FIELD	Field*
pH, Field Measured	12.6	pH Units		02/07/24 13:52	1		02/07/24 13:52	FIELD	Field*
Specific Conductance, Field Measured	1960	umhos/cm		02/07/24 13:52	1		02/07/24 13:52	FIELD	Field*
Temperature, Field Measured	12.6	°C		02/07/24 13:52	1		02/07/24 13:52	FIELD	Field*
Turbidity, Field Measured	27.1	NTU		02/07/24 13:52	1	0.00	02/07/24 13:52	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	75	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/16/24 16:39	1	0.250	02/16/24 16:39	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	930	mg/L		02/13/24 09:55	1	17	02/13/24 11:10	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/08/24 08:01	5	3.0	02/15/24 17:20	TJJ	EPA 6020A
Arsenic	21	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:20	TJJ	EPA 6020A
Barium	82	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:20	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:20	TJJ	EPA 6020A
Boron	6300	ug/L		02/08/24 08:01	100	200	02/16/24 12:09	TJJ	EPA 6020A
Cadmium	1.4	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:20	TJJ	EPA 6020A
Calcium	63	mg/L		02/08/24 08:01	5	0.20	02/15/24 17:20	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/08/24 08:01	5	4.0	02/15/24 17:20	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/08/24 08:01	5	2.0	02/15/24 17:20	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:20	TJJ	EPA 6020A
Magnesium	< 0.10	mg/L		02/08/24 08:01	5	0.10	02/15/24 17:20	TJJ	EPA 6020A
Mercury	0.20	ug/L		02/08/24 08:01	5	0.20	02/21/24 11:25	wjm	EPA 6020A
Molybdenum	3400	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:20	TJJ	EPA 6020A
Potassium	66	mg/L		02/08/24 08:01	5	0.10	02/15/24 17:20	TJJ	EPA 6020A
Selenium	23	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:20	TJJ	EPA 6020A
Sodium	240	mg/L		02/08/24 08:01	5	0.10	02/15/24 17:20	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01318-08
Name: XPW03
Matrix: Ground Water - Grab

Sampled: 02/07/24 13:52
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		02/08/24 08:01	5	1.0	02/15/24 17:20	TJJ	EPA 6020A
Lithium	120	ug/L		02/08/24 08:01	1	20	02/09/24 13:25	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-01
Name: AP05S
Matrix: Ground Water - Grab

Sampled: 02/08/24 15:31
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	39	mg/L	Q4	02/15/24 10:50	10	10	02/15/24 10:50	TMS	EPA 300.0 REV 2.1
Sulfate	58	mg/L	Q4	02/15/24 10:50	10	10	02/15/24 10:50	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	4.15	Feet		02/08/24 15:31	1		02/08/24 15:31	FIELD	Field*
Dissolved oxygen, Field	0.37	mg/L		02/08/24 15:31	1		02/08/24 15:31	FIELD	Field*
Oxidation Reduction Potential	-71.0	mV		02/08/24 15:31	1	-500	02/08/24 15:31	FIELD	Field*
pH, Field Measured	7.07	pH Units		02/08/24 15:31	1		02/08/24 15:31	FIELD	Field*
Specific Conductance, Field Measured	1730	umhos/cm		02/08/24 15:31	1		02/08/24 15:31	FIELD	Field*
Temperature, Field Measured	12.9	°C		02/08/24 15:31	1		02/08/24 15:31	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/08/24 15:31	1	0.00	02/08/24 15:31	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	740	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/20/24 11:51	1	0.250	02/20/24 11:51	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	820	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 15:17	TJJ	EPA 6020A
Arsenic	1.2	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:17	TJJ	EPA 6020A
Barium	650	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:17	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:17	TJJ	EPA 6020A
Boron	280	ug/L		02/13/24 08:23	5	10	02/16/24 15:17	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:17	TJJ	EPA 6020A
Calcium	100	mg/L	Q4	02/13/24 08:23	5	0.20	02/16/24 15:17	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/13/24 08:23	5	4.0	02/16/24 15:17	TJJ	EPA 6020A
Cobalt	2.0	ug/L		02/13/24 08:23	5	2.0	02/16/24 15:17	TJJ	EPA 6020A
Lead	2.1	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:17	TJJ	EPA 6020A
Magnesium	43	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:17	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/19/24 12:20	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:17	TJJ	EPA 6020A
Potassium	3.6	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:17	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:17	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-01
Name: AP05S
Matrix: Ground Water - Grab

Sampled: 02/08/24 15:31
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	160	mg/L	Q4	02/13/24 08:23	5	0.10	02/16/24 15:17	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:17	TJJ	EPA 6020A
Lithium	29	ug/L		02/13/24 08:23	1	20	02/16/24 12:55	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-02
Name: AP07S
Matrix: Ground Water - Grab

Sampled: 02/08/24 15:44
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	84	mg/L		02/15/24 11:29	50	50	02/15/24 11:29	TMS	EPA 300.0 REV 2.1
Sulfate	330	mg/L		02/15/24 11:29	50	50	02/15/24 11:29	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	24.14	Feet		02/08/24 15:44	1		02/08/24 15:44	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		02/08/24 15:44	1		02/08/24 15:44	FIELD	Field*
Oxidation Reduction Potential	-27.0	mV		02/08/24 15:44	1	-500	02/08/24 15:44	FIELD	Field*
pH, Field Measured	6.73	pH Units		02/08/24 15:44	1		02/08/24 15:44	FIELD	Field*
Specific Conductance, Field Measured	1406	umhos/cm		02/08/24 15:44	1		02/08/24 15:44	FIELD	Field*
Temperature, Field Measured	14.7	°C		02/08/24 15:44	1		02/08/24 15:44	FIELD	Field*
Turbidity, Field Measured	66.1	NTU		02/08/24 15:44	1	0.00	02/08/24 15:44	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	380	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	0.289	mg/L		02/20/24 11:52	1	0.250	02/20/24 11:52	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	980	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 15:21	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:21	TJJ	EPA 6020A
Barium	61	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:21	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:21	TJJ	EPA 6020A
Boron	12000	ug/L		02/13/24 08:23	100	200	02/19/24 13:41	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:21	TJJ	EPA 6020A
Calcium	170	mg/L		02/13/24 08:23	5	0.20	02/16/24 15:21	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/13/24 08:23	5	4.0	02/16/24 15:21	TJJ	EPA 6020A
Cobalt	2.4	ug/L		02/13/24 08:23	5	2.0	02/16/24 15:21	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:21	TJJ	EPA 6020A
Magnesium	59	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:21	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 15:21	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:21	TJJ	EPA 6020A
Potassium	0.51	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:21	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:21	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-02
Name: AP07S
Matrix: Ground Water - Grab

Sampled: 02/08/24 15:44
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	65	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:21	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:21	TJJ	EPA 6020A
Lithium	< 20	ug/L		02/13/24 08:23	1	20	02/16/24 13:01	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-03
Name: AW-01
Matrix: Ground Water - Grab

Sampled: 02/08/24 11:12
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	22	mg/L		02/15/24 12:07	5	5.0	02/15/24 12:07	TMS	EPA 300.0 REV 2.1
Sulfate	67	mg/L		02/15/24 12:27	50	50	02/15/24 12:27	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	9.58	Feet		02/08/24 11:12	1		02/08/24 11:12	FIELD	Field*
Dissolved oxygen, Field	0.97	mg/L		02/08/24 11:12	1		02/08/24 11:12	FIELD	Field*
Oxidation Reduction Potential	-75.0	mV		02/08/24 11:12	1	-500	02/08/24 11:12	FIELD	Field*
pH, Field Measured	6.70	pH Units		02/08/24 11:12	1		02/08/24 11:12	FIELD	Field*
Specific Conductance, Field Measured	1450	umhos/cm		02/08/24 11:12	1		02/08/24 11:12	FIELD	Field*
Temperature, Field Measured	13.6	°C		02/08/24 11:12	1		02/08/24 11:12	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/08/24 11:12	1	0.00	02/08/24 11:12	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	600	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	0.254	mg/L		02/20/24 11:53	1	0.250	02/20/24 11:53	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	740	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 15:25	TJJ	EPA 6020A
Arsenic	3.9	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:25	TJJ	EPA 6020A
Barium	88	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:25	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:25	TJJ	EPA 6020A
Boron	130	ug/L		02/13/24 08:23	5	10	02/19/24 12:24	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:25	TJJ	EPA 6020A
Calcium	140	mg/L		02/13/24 08:23	5	0.20	02/16/24 15:25	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/13/24 08:23	5	4.0	02/16/24 15:25	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/13/24 08:23	5	2.0	02/16/24 15:25	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:25	TJJ	EPA 6020A
Magnesium	63	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:25	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 15:25	TJJ	EPA 6020A
Molybdenum	4.8	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:25	TJJ	EPA 6020A
Potassium	1.4	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:25	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:25	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-03
Name: AW-01
Matrix: Ground Water - Grab

Sampled: 02/08/24 11:12
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	46	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:25	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:25	TJJ	EPA 6020A
Lithium	< 20	ug/L		02/13/24 08:23	1	20	02/16/24 13:02	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-04
Name: AW-01 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 02/08/24 11:12
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	22	mg/L		02/15/24 13:44	5	5.0	02/15/24 13:44	TMS	EPA 300.0 REV 2.1
Sulfate	63	mg/L		02/15/24 14:03	50	50	02/15/24 14:03	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	9.58	Feet		02/08/24 11:12	1		02/08/24 11:12	FIELD	Field*
Dissolved oxygen, Field	0.97	mg/L		02/08/24 11:12	1		02/08/24 11:12	FIELD	Field*
Oxidation Reduction Potential	-75.0	mV		02/08/24 11:12	1	-500	02/08/24 11:12	FIELD	Field*
pH, Field Measured	6.70	pH Units		02/08/24 11:12	1		02/08/24 11:12	FIELD	Field*
Specific Conductance, Field Measured	1450	umhos/cm		02/08/24 11:12	1		02/08/24 11:12	FIELD	Field*
Temperature, Field Measured	13.6	°C		02/08/24 11:12	1		02/08/24 11:12	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/08/24 11:12	1	0.00	02/08/24 11:12	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	600	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	0.256	mg/L		02/20/24 11:54	1	0.250	02/20/24 11:54	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	700	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 15:28	TJJ	EPA 6020A
Arsenic	3.8	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:28	TJJ	EPA 6020A
Barium	86	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:28	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:28	TJJ	EPA 6020A
Boron	130	ug/L		02/13/24 08:23	5	10	02/19/24 12:28	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:28	TJJ	EPA 6020A
Calcium	140	mg/L		02/13/24 08:23	5	0.20	02/16/24 15:28	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/13/24 08:23	5	4.0	02/16/24 15:28	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/13/24 08:23	5	2.0	02/16/24 15:28	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:28	TJJ	EPA 6020A
Magnesium	62	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:28	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 15:28	TJJ	EPA 6020A
Molybdenum	4.8	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:28	TJJ	EPA 6020A
Potassium	1.4	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:28	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:28	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-04

Name: AW-01 DUP

Matrix: Ground Water - Field Duplicate

Sampled: 02/08/24 11:12

Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	46	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:28	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:28	TJJ	EPA 6020A
Lithium	< 20	ug/L		02/13/24 08:23	1	20	02/16/24 13:03	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-05
Name: AW-05
Matrix: Ground Water - Grab

Sampled: 02/08/24 14:35
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	75	mg/L		02/15/24 14:42	50	50	02/15/24 14:42	TMS	EPA 300.0 REV 2.1
Sulfate	400	mg/L		02/15/24 14:42	50	50	02/15/24 14:42	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	8.12	Feet		02/08/24 14:35	1		02/08/24 14:35	DAB	Field*
Dissolved oxygen, Field	0.96	mg/L		02/08/24 14:35	1		02/08/24 14:35	DAB	Field*
Oxidation Reduction Potential	29.0	mV		02/08/24 14:35	1	-500	02/08/24 14:35	DAB	Field*
pH, Field Measured	6.92	pH Units		02/08/24 14:35	1		02/08/24 14:35	DAB	Field*
Specific Conductance, Field Measured	1770	umhos/cm		02/08/24 14:35	1		02/08/24 14:35	DAB	Field*
Temperature, Field Measured	14.5	°C		02/08/24 14:35	1		02/08/24 14:35	DAB	Field*
Turbidity, Field Measured	< 0.00	NTU		02/08/24 14:35	1	0.00	02/08/24 14:35	DAB	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	380	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/20/24 11:55	1	0.250	02/20/24 11:55	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1000	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 15:32	TJJ	EPA 6020A
Arsenic	5.1	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:32	TJJ	EPA 6020A
Barium	150	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:32	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:32	TJJ	EPA 6020A
Boron	6200	ug/L		02/13/24 08:23	5	10	02/16/24 15:32	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:32	TJJ	EPA 6020A
Calcium	170	mg/L		02/13/24 08:23	5	0.20	02/16/24 15:32	TJJ	EPA 6020A
Chromium	8.9	ug/L		02/13/24 08:23	5	4.0	02/16/24 15:32	TJJ	EPA 6020A
Cobalt	6.0	ug/L		02/13/24 08:23	5	2.0	02/16/24 15:32	TJJ	EPA 6020A
Lead	4.5	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:32	TJJ	EPA 6020A
Magnesium	77	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:32	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 15:32	TJJ	EPA 6020A
Molybdenum	2.2	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:32	TJJ	EPA 6020A
Potassium	2.1	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:32	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:32	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-05
Name: AW-05
Matrix: Ground Water - Grab

Sampled: 02/08/24 14:35
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	73	mg/L		02/13/24 08:23	5	0.10	02/16/24 15:32	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 15:32	TJJ	EPA 6020A
Lithium	< 20	ug/L		02/13/24 08:23	1	20	02/16/24 13:04	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-06
Name: AW-08
Matrix: Ground Water - Grab

Sampled: 02/08/24 13:15
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	18	mg/L		02/15/24 15:21	5	5.0	02/15/24 15:21	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		02/15/24 15:01	1	1.0	02/15/24 15:01	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	21.5	Feet		02/08/24 13:15	1		02/08/24 13:15	FIELD	Field*
Dissolved oxygen, Field	1.4	mg/L		02/08/24 13:15	1		02/08/24 13:15	FIELD	Field*
Oxidation Reduction Potential	-99.0	mV		02/08/24 13:15	1	-500	02/08/24 13:15	FIELD	Field*
pH, Field Measured	6.75	pH Units		02/08/24 13:15	1		02/08/24 13:15	FIELD	Field*
Specific Conductance, Field Measured	1490	umhos/cm		02/08/24 13:15	1		02/08/24 13:15	FIELD	Field*
Temperature, Field Measured	14.9	°C		02/08/24 13:15	1		02/08/24 13:15	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/08/24 13:15	1	0.00	02/08/24 13:15	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	700	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	0.256	mg/L		02/20/24 11:57	1	0.250	02/20/24 11:57	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	710	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 16:24	TJJ	EPA 6020A
Arsenic	12	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:24	TJJ	EPA 6020A
Barium	300	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:24	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:24	TJJ	EPA 6020A
Boron	140	ug/L		02/13/24 08:23	5	10	02/19/24 12:31	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:24	TJJ	EPA 6020A
Calcium	140	mg/L		02/13/24 08:23	5	0.20	02/16/24 16:24	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/13/24 08:23	5	4.0	02/16/24 16:24	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/13/24 08:23	5	2.0	02/16/24 16:24	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:24	TJJ	EPA 6020A
Magnesium	54	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:24	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 16:24	TJJ	EPA 6020A
Molybdenum	1.8	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:24	TJJ	EPA 6020A
Potassium	2.2	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:24	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:24	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-06
Name: AW-08
Matrix: Ground Water - Grab

Sampled: 02/08/24 13:15
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	64	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:24	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:24	TJJ	EPA 6020A
Lithium	< 20	ug/L		02/13/24 08:23	1	20	02/16/24 13:06	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-07
Name: AW-10
Matrix: Ground Water - Grab

Sampled: 02/08/24 15:06
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	89	mg/L		02/15/24 15:59	10	10	02/15/24 15:59	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		02/15/24 15:40	1	1.0	02/15/24 15:40	TMS	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	0.8	Feet		02/08/24 15:06	1		02/08/24 15:06	FIELD	Field*
Dissolved oxygen, Field	1.7	mg/L		02/08/24 15:06	1		02/08/24 15:06	FIELD	Field*
Oxidation Reduction Potential	-119	mV		02/08/24 15:06	1	-500	02/08/24 15:06	FIELD	Field*
pH, Field Measured	7.05	pH Units		02/08/24 15:06	1		02/08/24 15:06	FIELD	Field*
Specific Conductance, Field Measured	1700	umhos/cm		02/08/24 15:06	1		02/08/24 15:06	FIELD	Field*
Temperature, Field Measured	13.4	°C		02/08/24 15:06	1		02/08/24 15:06	FIELD	Field*
Turbidity, Field Measured	310	NTU		02/08/24 15:06	1	0.00	02/08/24 15:06	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO ₃	1000	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/20/24 11:58	1	0.250	02/20/24 11:58	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1200	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 16:28	TJJ	EPA 6020A
Arsenic	11	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:28	TJJ	EPA 6020A
Barium	870	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:28	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:28	TJJ	EPA 6020A
Boron	490	ug/L		02/13/24 08:23	5	10	02/19/24 12:35	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:28	TJJ	EPA 6020A
Calcium	130	mg/L		02/13/24 08:23	5	0.20	02/16/24 16:28	TJJ	EPA 6020A
Chromium	4.7	ug/L		02/13/24 08:23	5	4.0	02/16/24 16:28	TJJ	EPA 6020A
Cobalt	4.3	ug/L		02/13/24 08:23	5	2.0	02/16/24 16:28	TJJ	EPA 6020A
Lead	2.2	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:28	TJJ	EPA 6020A
Magnesium	61	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:28	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 16:28	TJJ	EPA 6020A
Molybdenum	1.5	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:28	TJJ	EPA 6020A
Potassium	3.6	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:28	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:28	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-07
Name: AW-10
Matrix: Ground Water - Grab

Sampled: 02/08/24 15:06
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	250	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:28	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:28	TJJ	EPA 6020A
Lithium	43	ug/L		02/13/24 08:23	1	20	02/16/24 13:07	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-08
Name: AW-11
Matrix: Ground Water - Grab

Sampled: 02/08/24 13:28
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	35	mg/L		02/15/24 16:38	10	10	02/15/24 16:38	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		02/15/24 16:19	1	1.0	02/15/24 16:19	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	5.54	Feet		02/08/24 13:28	1		02/08/24 13:28	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		02/08/24 13:28	1		02/08/24 13:28	FIELD	Field*
Oxidation Reduction Potential	-137	mV		02/08/24 13:28	1	-500	02/08/24 13:28	FIELD	Field*
pH, Field Measured	7.05	pH Units		02/08/24 13:28	1		02/08/24 13:28	FIELD	Field*
Specific Conductance, Field Measured	1460	umhos/cm		02/08/24 13:28	1		02/08/24 13:28	FIELD	Field*
Temperature, Field Measured	11.7	°C		02/08/24 13:28	1		02/08/24 13:28	FIELD	Field*
Turbidity, Field Measured	718	NTU		02/08/24 13:28	1	0.00	02/08/24 13:28	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	910	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/20/24 11:59	1	0.250	02/20/24 11:59	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	950	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 16:32	TJJ	EPA 6020A
Arsenic	9.2	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:32	TJJ	EPA 6020A
Barium	1000	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:32	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:32	TJJ	EPA 6020A
Boron	260	ug/L		02/13/24 08:23	5	10	02/19/24 12:39	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:32	TJJ	EPA 6020A
Calcium	150	mg/L		02/13/24 08:23	5	0.20	02/16/24 16:32	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/13/24 08:23	5	4.0	02/16/24 16:32	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/13/24 08:23	5	2.0	02/16/24 16:32	TJJ	EPA 6020A
Lead	1.1	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:32	TJJ	EPA 6020A
Magnesium	64	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:32	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 16:32	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:32	TJJ	EPA 6020A
Potassium	2.6	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:32	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:32	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-08
Name: AW-11
Matrix: Ground Water - Grab

Sampled: 02/08/24 13:28
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	150	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:32	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:32	TJJ	EPA 6020A
Lithium	23	ug/L		02/13/24 08:23	1	20	02/16/24 13:08	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-09
Name: AW-14
Matrix: Ground Water - Grab

Sampled: 02/08/24 12:38
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	42	mg/L		02/15/24 17:56	5	5.0	02/15/24 17:56	TMS	EPA 300.0 REV 2.1
Sulfate	28	mg/L		02/15/24 17:56	5	5.0	02/15/24 17:56	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.65	Feet		02/08/24 12:38	1		02/08/24 12:38	FIELD	Field*
Dissolved oxygen, Field	0.46	mg/L		02/08/24 12:38	1		02/08/24 12:38	FIELD	Field*
Oxidation Reduction Potential	-123	mV		02/08/24 12:38	1	-500	02/08/24 12:38	FIELD	Field*
pH, Field Measured	7.05	pH Units		02/08/24 12:38	1		02/08/24 12:38	FIELD	Field*
Specific Conductance, Field Measured	1430	umhos/cm		02/08/24 12:38	1		02/08/24 12:38	FIELD	Field*
Temperature, Field Measured	11.5	°C		02/08/24 12:38	1		02/08/24 12:38	FIELD	Field*
Turbidity, Field Measured	156	NTU		02/08/24 12:38	1	0.00	02/08/24 12:38	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	940	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/20/24 12:04	1	0.250	02/20/24 12:04	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	940	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 16:36	TJJ	EPA 6020A
Arsenic	2.2	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:36	TJJ	EPA 6020A
Barium	510	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:36	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:36	TJJ	EPA 6020A
Boron	380	ug/L		02/13/24 08:23	5	10	02/19/24 12:43	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:36	TJJ	EPA 6020A
Calcium	160	mg/L		02/13/24 08:23	5	0.20	02/16/24 16:36	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/13/24 08:23	5	4.0	02/16/24 16:36	TJJ	EPA 6020A
Cobalt	2.2	ug/L		02/13/24 08:23	5	2.0	02/16/24 16:36	TJJ	EPA 6020A
Lead	1.4	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:36	TJJ	EPA 6020A
Magnesium	63	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:36	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 16:36	TJJ	EPA 6020A
Molybdenum	5.9	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:36	TJJ	EPA 6020A
Potassium	4.9	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:36	TJJ	EPA 6020A
Selenium	1.4	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:36	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-09
Name: AW-14
Matrix: Ground Water - Grab

Sampled: 02/08/24 12:38
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	140	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:36	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:36	TJJ	EPA 6020A
Lithium	< 20	ug/L		02/13/24 08:23	1	20	02/16/24 13:09	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-10
Name: AW-15
Matrix: Ground Water - Grab

Sampled: 02/08/24 10:14
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	36	mg/L		02/15/24 18:34	10	10	02/15/24 18:34	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		02/15/24 18:15	1	1.0	02/15/24 18:15	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	8.8	Feet		02/08/24 10:14	1		02/08/24 10:14	FIELD	Field*
Dissolved oxygen, Field	0.67	mg/L		02/08/24 10:14	1		02/08/24 10:14	FIELD	Field*
Oxidation Reduction Potential	-102	mV		02/08/24 10:14	1	-500	02/08/24 10:14	FIELD	Field*
pH, Field Measured	6.83	pH Units		02/08/24 10:14	1		02/08/24 10:14	FIELD	Field*
Specific Conductance, Field Measured	1560	umhos/cm		02/08/24 10:14	1		02/08/24 10:14	FIELD	Field*
Temperature, Field Measured	13.1	°C		02/08/24 10:14	1		02/08/24 10:14	FIELD	Field*
Turbidity, Field Measured	34.5	NTU		02/08/24 10:14	1	0.00	02/08/24 10:14	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	1000	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/20/24 12:05	1	0.250	02/20/24 12:05	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1100	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 16:40	TJJ	EPA 6020A
Arsenic	1.8	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:40	TJJ	EPA 6020A
Barium	1700	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:40	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:40	TJJ	EPA 6020A
Boron	410	ug/L		02/13/24 08:23	5	10	02/19/24 12:47	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:40	TJJ	EPA 6020A
Calcium	140	mg/L		02/13/24 08:23	5	0.20	02/16/24 16:40	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/13/24 08:23	5	4.0	02/16/24 16:40	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/13/24 08:23	5	2.0	02/16/24 16:40	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:40	TJJ	EPA 6020A
Magnesium	54	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:40	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 16:40	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:40	TJJ	EPA 6020A
Potassium	4.0	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:40	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:40	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-10
Name: AW-15
Matrix: Ground Water - Grab

Sampled: 02/08/24 10:14
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	200	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:40	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:40	TJJ	EPA 6020A
Lithium	33	ug/L		02/13/24 08:23	1	20	02/16/24 13:10	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-11
Name: AW-15S
Matrix: Ground Water - Grab

Sampled: 02/08/24 11:26
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	30	mg/L	Q4	02/15/24 19:52	10	10	02/15/24 19:52	TMS	EPA 300.0 REV 2.1
Sulfate	550	mg/L	Q4	02/15/24 20:11	100	100	02/15/24 20:11	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	9.34	Feet		02/08/24 11:26	1		02/08/24 11:26	FIELD	Field*
Dissolved oxygen, Field	0.59	mg/L		02/08/24 11:26	1		02/08/24 11:26	FIELD	Field*
Oxidation Reduction Potential	19.0	mV		02/08/24 11:26	1	-500	02/08/24 11:26	FIELD	Field*
pH, Field Measured	7.03	pH Units		02/08/24 11:26	1		02/08/24 11:26	FIELD	Field*
Specific Conductance, Field Measured	1420	umhos/cm		02/08/24 11:26	1		02/08/24 11:26	FIELD	Field*
Temperature, Field Measured	12.6	°C		02/08/24 11:26	1		02/08/24 11:26	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/08/24 11:26	1	0.00	02/08/24 11:26	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	480	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	0.260	mg/L		02/20/24 12:08	1	0.250	02/20/24 12:08	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1300	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 16:44	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:44	TJJ	EPA 6020A
Barium	73	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:44	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:44	TJJ	EPA 6020A
Boron	6800	ug/L		02/13/24 08:23	100	200	02/19/24 13:45	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:44	TJJ	EPA 6020A
Calcium	250	mg/L		02/13/24 08:23	5	0.20	02/16/24 16:44	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/13/24 08:23	5	4.0	02/16/24 16:44	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/13/24 08:23	5	2.0	02/16/24 16:44	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:44	TJJ	EPA 6020A
Magnesium	77	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:44	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 16:44	TJJ	EPA 6020A
Molybdenum	2.8	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:44	TJJ	EPA 6020A
Potassium	0.60	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:44	TJJ	EPA 6020A
Selenium	4.9	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:44	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-11
Name: AW-15S
Matrix: Ground Water - Grab

Sampled: 02/08/24 11:26
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	52	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:44	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:44	TJJ	EPA 6020A
Lithium	< 20	ug/L		02/13/24 08:23	1	20	02/16/24 13:12	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-12
Name: AW-16
Matrix: Ground Water - Grab

Sampled: 02/08/24 14:07
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	50	mg/L		02/15/24 21:29	10	10	02/15/24 21:29	TMS	EPA 300.0 REV 2.1
Sulfate	6.1	mg/L		02/15/24 20:30	1	1.0	02/15/24 20:30	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	24.92	Feet		02/08/24 14:07	1		02/08/24 14:07	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		02/08/24 14:07	1		02/08/24 14:07	FIELD	Field*
Oxidation Reduction Potential	-121	mV		02/08/24 14:07	1	-500	02/08/24 14:07	FIELD	Field*
pH, Field Measured	6.52	pH Units		02/08/24 14:07	1		02/08/24 14:07	FIELD	Field*
Specific Conductance, Field Measured	2120	umhos/cm		02/08/24 14:07	1		02/08/24 14:07	FIELD	Field*
Temperature, Field Measured	14.7	°C		02/08/24 14:07	1		02/08/24 14:07	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		02/08/24 14:07	1	0.00	02/08/24 14:07	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	1100	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/20/24 12:09	1	0.250	02/20/24 12:09	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1100	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 16:48	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:48	TJJ	EPA 6020A
Barium	1100	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:48	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:48	TJJ	EPA 6020A
Boron	490	ug/L		02/13/24 08:23	5	10	02/19/24 12:51	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:48	TJJ	EPA 6020A
Calcium	140	mg/L		02/13/24 08:23	5	0.20	02/16/24 16:48	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/13/24 08:23	5	4.0	02/16/24 16:48	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/13/24 08:23	5	2.0	02/16/24 16:48	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:48	TJJ	EPA 6020A
Magnesium	55	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:48	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 16:48	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:48	TJJ	EPA 6020A
Potassium	4.6	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:48	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:48	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-12
Name: AW-16
Matrix: Ground Water - Grab

Sampled: 02/08/24 14:07
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	240	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:48	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:48	TJJ	EPA 6020A
Lithium	38	ug/L		02/13/24 08:23	1	20	02/16/24 13:15	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-13
Name: AW-16 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 02/08/24 14:07
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	51	mg/L		02/15/24 22:07	10	10	02/15/24 22:07	TMS	EPA 300.0 REV 2.1
Sulfate	5.5	mg/L		02/15/24 21:48	1	1.0	02/15/24 21:48	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	24.92	Feet		02/08/24 14:07	1		02/08/24 14:07	DAB	Field*
Dissolved oxygen, Field	0.0	mg/L		02/08/24 14:07	1		02/08/24 14:07	DAB	Field*
Oxidation Reduction Potential	-121	mV		02/08/24 14:07	1	-500	02/08/24 14:07	DAB	Field*
pH, Field Measured	6.52	pH Units		02/08/24 14:07	1		02/08/24 14:07	DAB	Field*
Specific Conductance, Field Measured	2120	umhos/cm		02/08/24 14:07	1		02/08/24 14:07	DAB	Field*
Temperature, Field Measured	14.7	°C		02/08/24 14:07	1		02/08/24 14:07	DAB	Field*
Turbidity, Field Measured	< 0.00	NTU		02/08/24 14:07	1	0.00	02/08/24 14:07	DAB	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	1100	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/20/24 12:10	1	0.250	02/20/24 12:10	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1100	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 16:52	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:52	TJJ	EPA 6020A
Barium	1100	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:52	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:52	TJJ	EPA 6020A
Boron	490	ug/L		02/13/24 08:23	5	10	02/19/24 13:14	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:52	TJJ	EPA 6020A
Calcium	140	mg/L		02/13/24 08:23	5	0.20	02/16/24 16:52	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/13/24 08:23	5	4.0	02/16/24 16:52	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		02/13/24 08:23	5	2.0	02/16/24 16:52	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:52	TJJ	EPA 6020A
Magnesium	56	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:52	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 16:52	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:52	TJJ	EPA 6020A
Potassium	4.7	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:52	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:52	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-13

Name: AW-16 DUP

Matrix: Ground Water - Field Duplicate

Sampled: 02/08/24 14:07

Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	240	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:52	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:52	TJJ	EPA 6020A
Lithium	38	ug/L		02/13/24 08:23	1	20	02/16/24 13:16	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-14
Name: AW-17
Matrix: Ground Water - Grab

Sampled: 02/08/24 12:05
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	52	mg/L		02/15/24 22:46	10	10	02/15/24 22:46	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		02/15/24 22:27	1	1.0	02/15/24 22:27	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	25.56	Feet		02/08/24 12:05	1		02/08/24 12:05	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		02/08/24 12:05	1		02/08/24 12:05	FIELD	Field*
Oxidation Reduction Potential	-132	mV		02/08/24 12:05	1	-500	02/08/24 12:05	FIELD	Field*
pH, Field Measured	6.51	pH Units		02/08/24 12:05	1		02/08/24 12:05	FIELD	Field*
Specific Conductance, Field Measured	1776	umhos/cm		02/08/24 12:05	1		02/08/24 12:05	FIELD	Field*
Temperature, Field Measured	13.4	°C		02/08/24 12:05	1		02/08/24 12:05	FIELD	Field*
Turbidity, Field Measured	91.9	NTU		02/08/24 12:05	1	0.00	02/08/24 12:05	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	880	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		02/20/24 12:11	1	0.250	02/20/24 12:11	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	900	mg/L		02/14/24 09:34	1	17	02/14/24 11:13	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 16:55	TJJ	EPA 6020A
Arsenic	3.9	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:55	TJJ	EPA 6020A
Barium	1000	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:55	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:55	TJJ	EPA 6020A
Boron	460	ug/L		02/13/24 08:23	5	10	02/19/24 13:18	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:55	TJJ	EPA 6020A
Calcium	100	mg/L		02/13/24 08:23	5	0.20	02/16/24 16:55	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		02/13/24 08:23	5	4.0	02/16/24 16:55	TJJ	EPA 6020A
Cobalt	2.4	ug/L		02/13/24 08:23	5	2.0	02/16/24 16:55	TJJ	EPA 6020A
Lead	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:55	TJJ	EPA 6020A
Magnesium	42	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:55	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 16:55	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:55	TJJ	EPA 6020A
Potassium	4.2	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:55	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:55	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-14
Name: AW-17
Matrix: Ground Water - Grab

Sampled: 02/08/24 12:05
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	210	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:55	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:55	TJJ	EPA 6020A
Lithium	36	ug/L		02/13/24 08:23	1	20	02/16/24 13:18	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HB01601-15
Name: AW-19
Matrix: Ground Water - Grab

Sampled: 02/08/24 10:35
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	76	mg/L		02/15/24 23:25	10	10	02/15/24 23:25	TMS	EPA 300.0 REV 2.1
Sulfate	54	mg/L		02/15/24 23:25	10	10	02/15/24 23:25	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	13.67	Feet		02/08/24 10:35	1		02/08/24 10:35	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		02/08/24 10:35	1		02/08/24 10:35	FIELD	Field*
Oxidation Reduction Potential	-85.0	mV		02/08/24 10:35	1	-500	02/08/24 10:35	FIELD	Field*
pH, Field Measured	6.75	pH Units		02/08/24 10:35	1		02/08/24 10:35	FIELD	Field*
Specific Conductance, Field Measured	1185	umhos/cm		02/08/24 10:35	1		02/08/24 10:35	FIELD	Field*
Temperature, Field Measured	13.4	°C		02/08/24 10:35	1		02/08/24 10:35	FIELD	Field*
Turbidity, Field Measured	60.6	NTU		02/08/24 10:35	1	0.00	02/08/24 10:35	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	460	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/20/24 09:12	1	10	02/20/24 09:12	TMS	SM 2320B 1997*
Fluoride	0.271	mg/L		02/20/24 12:12	1	0.250	02/20/24 12:12	TTH/KCS 1	SM 4500F C 1997
Solids - total dissolved solids (TDS)	630	mg/L		02/14/24 13:49	1	17	02/14/24 15:26	OGS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/13/24 08:23	5	3.0	02/16/24 16:59	TJJ	EPA 6020A
Arsenic	15	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:59	TJJ	EPA 6020A
Barium	200	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:59	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:59	TJJ	EPA 6020A
Boron	3200	ug/L		02/13/24 08:23	20	40	02/19/24 13:49	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:59	TJJ	EPA 6020A
Calcium	130	mg/L		02/13/24 08:23	5	0.20	02/16/24 16:59	TJJ	EPA 6020A
Chromium	4.7	ug/L		02/13/24 08:23	5	4.0	02/16/24 16:59	TJJ	EPA 6020A
Cobalt	2.4	ug/L		02/13/24 08:23	5	2.0	02/16/24 16:59	TJJ	EPA 6020A
Lead	2.9	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:59	TJJ	EPA 6020A
Magnesium	55	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:59	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		02/13/24 08:23	5	0.20	02/16/24 16:59	TJJ	EPA 6020A
Molybdenum	3.9	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:59	TJJ	EPA 6020A
Potassium	1.6	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:59	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:59	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HB01601-15
Name: AW-19
Matrix: Ground Water - Grab

Sampled: 02/08/24 10:35
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	54	mg/L		02/13/24 08:23	5	0.10	02/16/24 16:59	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		02/13/24 08:23	5	1.0	02/16/24 16:59	TJJ	EPA 6020A
Lithium	< 20	ug/L		02/13/24 08:23	1	20	02/16/24 13:19	LAM	EPA 6010B

Sample: HB01601-18
Name: SG-01
Matrix: Ground Water

Sampled: 02/20/24 12:30
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Field - PIA

Depth, From Measuring Point	447	Feet		02/20/24 12:30	1		02/20/24 12:30	DAB	Field*
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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B424971 - SW 3015 - EPA 6010B</u>									
Blank (B424971-BLK1)				Prepared: 02/08/24 Analyzed: 02/09/24					
Lithium	< 20	ug/L							
LCS (B424971-BS1)				Prepared: 02/08/24 Analyzed: 02/09/24					
Lithium	525	ug/L		555.6		94	80-120		
<u>Batch B424971 - SW 3015 - EPA 6020A</u>									
Blank (B424971-BLK1)				Prepared: 02/08/24 Analyzed: 02/15/24					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B424971-BS1)				Prepared: 02/08/24 Analyzed: 02/15/24					
Antimony	518	ug/L		555.6		93	80-120		
Arsenic	546	ug/L		555.6		98	80-120		
Barium	538	ug/L		555.6		97	80-120		
Beryllium	562	ug/L		555.6		101	80-120		
Boron	502	ug/L		555.6		90	80-120		
Cadmium	549	ug/L		555.6		99	80-120		
Calcium	5.64	mg/L		5.556		102	80-120		
Chromium	551	ug/L		555.6		99	80-120		
Cobalt	538	ug/L		555.6		97	80-120		
Lead	551	ug/L		555.6		99	80-120		
Magnesium	5.74	mg/L		5.556		103	80-120		
Mercury	54.0	ug/L		55.56		97	80-120		
Molybdenum	526	ug/L		555.6		95	80-120		
Potassium	5.47	mg/L		5.556		98	80-120		
Selenium	537	ug/L		555.6		97	80-120		
Sodium	5.69	mg/L		5.556		102	80-120		
Thallium	521	ug/L		555.6		94	80-120		
<u>Batch B425391 - SW 3015 - EPA 6010B</u>									
Blank (B425391-BLK1)				Prepared: 02/13/24 Analyzed: 02/16/24					

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B425391-BLK1)				Prepared: 02/13/24 Analyzed: 02/16/24					
Lithium	< 20	ug/L							
LCS (B425391-BS1)				Prepared: 02/13/24 Analyzed: 02/16/24					
Lithium	551	ug/L		555.6		99	80-120		
Matrix Spike (B425391-MS1)				Prepared: 02/13/24 Analyzed: 02/16/24					
Lithium	558	ug/L		555.6	29.0	95	75-125		
Matrix Spike Dup (B425391-MSD1)				Prepared: 02/13/24 Analyzed: 02/16/24					
Lithium	565	ug/L		555.6	29.0	97	75-125	1	20
<u>Batch B425391 - SW 3015 - EPA 6020A</u>									
Blank (B425391-BLK1)				Prepared: 02/13/24 Analyzed: 02/16/24					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B425391-BS1)				Prepared: 02/13/24 Analyzed: 02/16/24					
Antimony	497	ug/L		555.6		89	80-120		
Arsenic	508	ug/L		555.6		91	80-120		
Barium	502	ug/L		555.6		90	80-120		
Beryllium	511	ug/L		555.6		92	80-120		
Boron	506	ug/L		555.6		91	80-120		
Cadmium	514	ug/L		555.6		93	80-120		
Calcium	5.14	mg/L		5.556		93	80-120		
Chromium	512	ug/L		555.6		92	80-120		
Cobalt	514	ug/L		555.6		92	80-120		
Lead	538	ug/L		555.6		97	80-120		
Magnesium	5.22	mg/L		5.556		94	80-120		
Mercury	51.1	ug/L		55.56		92	80-120		
Molybdenum	493	ug/L		555.6		89	80-120		
Potassium	5.09	mg/L		5.556		92	80-120		
Selenium	516	ug/L		555.6		93	80-120		
Sodium	5.26	mg/L		5.556		95	80-120		
Thallium	525	ug/L		555.6		95	80-120		
Matrix Spike (B425391-MS1)				Prepared: 02/13/24 Analyzed: 02/16/24					
Antimony	493	ug/L		555.6	ND	89	75-125		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Matrix Spike (B425391-MS1)				Sample: HB01601-01		Prepared: 02/13/24 Analyzed: 02/16/24				
Arsenic	512	ug/L	Q4	555.6	1.25	92	75-125			
Barium	1160	ug/L		555.6	650	92	75-125			
Beryllium	515	ug/L		555.6	ND	93	75-125			
Boron	784	ug/L		555.6	280	91	75-125			
Cadmium	509	ug/L		555.6	ND	92	75-125			
Calcium	106	mg/L		5.556	102	71	75-125			
Chromium	513	ug/L		555.6	3.89	92	75-125			
Cobalt	509	ug/L		555.6	2.04	91	75-125			
Lead	533	ug/L		555.6	2.10	96	75-125			
Magnesium	47.6	mg/L		5.556	43.2	80	75-125			
Mercury	53.7	ug/L	Q4	55.56	ND	97	75-125			
Molybdenum	500	ug/L		555.6	ND	90	75-125			
Potassium	8.77	mg/L		5.556	3.63	92	75-125			
Selenium	513	ug/L		555.6	ND	92	75-125			
Sodium	158	mg/L		5.556	156	39	75-125			
Thallium	520	ug/L		555.6	ND	94	75-125			
Matrix Spike Dup (B425391-MSD1)				Sample: HB01601-01		Prepared: 02/13/24 Analyzed: 02/16/24				
Antimony	491	ug/L	Q4	555.6	ND	88	75-125	0.5	20	
Arsenic	510	ug/L		555.6	1.25	92	75-125	0.4	20	
Barium	1150	ug/L		555.6	650	90	75-125	0.9	20	
Beryllium	513	ug/L		555.6	ND	92	75-125	0.3	20	
Boron	790	ug/L		555.6	280	92	75-125	0.9	20	
Cadmium	509	ug/L		555.6	ND	92	75-125	0.1	20	
Calcium	106	mg/L		5.556	102	72	75-125	0.004	20	
Chromium	512	ug/L		555.6	3.89	91	75-125	0.3	20	
Cobalt	507	ug/L		555.6	2.04	91	75-125	0.5	20	
Lead	528	ug/L		555.6	2.10	95	75-125	1	20	
Magnesium	47.3	mg/L	Q4	5.556	43.2	76	75-125	0.5	20	
Mercury	53.6	ug/L		55.56	ND	96	75-125	0.2	20	
Molybdenum	499	ug/L		555.6	ND	90	75-125	0.2	20	
Potassium	8.82	mg/L		5.556	3.63	93	75-125	0.6	20	
Selenium	511	ug/L		555.6	ND	92	75-125	0.5	20	
Sodium	157	mg/L		5.556	156	17	75-125	0.8	20	
Thallium	514	ug/L		555.6	ND	92	75-125	1	20	
Batch B425404 - No Prep - SM 2540C										
Blank (B425404-BLK1)				Prepared & Analyzed: 02/13/24						
Solids - total dissolved solids (TDS)	< 17	mg/L								
LCS (B425404-BS1)				Prepared & Analyzed: 02/13/24						
Solids - total dissolved solids (TDS)	990	mg/L		1000		99	84.9-109			
Duplicate (B425404-DUP1)				Sample: HB01318-03 Prepared & Analyzed: 02/13/24						
Solids - total dissolved solids (TDS)	735	mg/L			760			3	5	
Duplicate (B425404-DUP2)				Sample: HB01318-04 Prepared & Analyzed: 02/13/24						
Solids - total dissolved solids (TDS)	845	mg/L			880			4	5	
Batch B425541 - No Prep - SM 2540C										
Blank (B425541-BLK1)				Prepared & Analyzed: 02/14/24						

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B425541-BLK1)				Prepared & Analyzed: 02/14/24					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B425541-BS1)				Prepared & Analyzed: 02/14/24					
Solids - total dissolved solids (TDS)	963	mg/L		1000		96	84.9-109		
Duplicate (B425541-DUP1)				Prepared & Analyzed: 02/14/24					
Solids - total dissolved solids (TDS)	935	mg/L			950			2	5
Duplicate (B425541-DUP2)				Prepared & Analyzed: 02/14/24					
Solids - total dissolved solids (TDS)	865	mg/L			895			3	5
<u>Batch B425557 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B425557-CCB1)				Prepared & Analyzed: 02/13/24					
Fluoride	0.00	mg/L							
Sulfate	0.00	mg/L							
Chloride	0.0534	mg/L							
Calibration Check (B425557-CCV1)				Prepared & Analyzed: 02/13/24					
Chloride	4.93	mg/L		5.000		99	90-110		
Sulfate	5.01	mg/L		5.000		100	90-110		
Fluoride	4.93	mg/L		5.000		99	90-110		
Matrix Spike (B425557-MS1)				Prepared & Analyzed: 02/13/24					
Fluoride	1.58	mg/L		1.500	0.263	88	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	35	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	22.0	NR	80-120		
Matrix Spike (B425557-MS2)				Prepared & Analyzed: 02/13/24					
Sulfate	1.00E9	mg/L	Q4	1.500	28.8	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	32	NR	80-120		
Fluoride	1.58	mg/L		1.500	0.234	90	80-120		
Matrix Spike Dup (B425557-MSD1)				Prepared & Analyzed: 02/13/24					
Chloride	1.0E9	mg/L	Q4	1.500	35	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	22.0	NR	80-120	0	20
Fluoride	1.59	mg/L		1.500	0.263	89	80-120	0.5	20
Matrix Spike Dup (B425557-MSD2)				Prepared & Analyzed: 02/13/24					
Chloride	1.0E9	mg/L	Q4	1.500	32	NR	80-120	0	20
Fluoride	1.59	mg/L		1.500	0.234	90	80-120	0.5	20
Sulfate	1.00E9	mg/L	Q4	1.500	28.8	NR	80-120	0	20
<u>Batch B425588 - No Prep - SM 2540C</u>									
Blank (B425588-BLK1)				Prepared & Analyzed: 02/14/24					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B425588-BS1)				Prepared & Analyzed: 02/14/24					
Solids - total dissolved solids (TDS)	937	mg/L		1000		94	84.9-109		
Duplicate (B425588-DUP1)				Prepared & Analyzed: 02/14/24					
Solids - total dissolved solids (TDS)	600	mg/L			630			5	5
<u>Batch B425682 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B425682-CCB1)				Prepared & Analyzed: 02/14/24					
Sulfate	0.00	mg/L							
Calibration Check (B425682-CCV1)				Prepared & Analyzed: 02/14/24					
Sulfate	5.30	mg/L		5.000		106	90-110		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B425823 - No Prep - SM 4500F C 1997</u>									
Calibration Blank (B425823-CCB1)				Prepared & Analyzed: 02/16/24					
Fluoride	0.0180	mg/L							
Calibration Blank (B425823-CCB2)				Prepared & Analyzed: 02/16/24					
Fluoride	0.0180	mg/L							
Calibration Check (B425823-CCV1)				Prepared & Analyzed: 02/16/24					
Fluoride	0.679	mg/L		0.7000		97	90-110		
Calibration Check (B425823-CCV2)				Prepared & Analyzed: 02/16/24					
Fluoride	0.694	mg/L		0.7000		99	90-110		
<u>Batch B425853 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B425853-CCB1)				Prepared & Analyzed: 02/15/24					
Sulfate	0.00	mg/L							
Chloride	0.0681	mg/L							
Calibration Check (B425853-CCV1)				Prepared & Analyzed: 02/15/24					
Chloride	4.67	mg/L		5.000		93	90-110		
Sulfate	4.88	mg/L		5.000		98	90-110		
Matrix Spike (B425853-MS2)				Sample: HB01601-01		Prepared & Analyzed: 02/15/24			
Chloride	< 1.0	mg/L	Q4	1.500	39	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	58.1	NR	80-120		
Matrix Spike (B425853-MS3)				Sample: HB01601-11		Prepared & Analyzed: 02/15/24			
Chloride	< 1.0	mg/L	Q4	1.500	30	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	548	NR	80-120		
Matrix Spike Dup (B425853-MSD2)				Sample: HB01601-01		Prepared & Analyzed: 02/15/24			
Chloride	< 1.0	mg/L	Q4	1.500	39	NR	80-120		20
Sulfate	1.00E9	mg/L	Q4	1.500	58.1	NR	80-120	0	20
Matrix Spike Dup (B425853-MSD3)				Sample: HB01601-11		Prepared & Analyzed: 02/15/24			
Sulfate	1.00E9	mg/L	Q4	1.500	548	NR	80-120	0	20
Chloride	< 1.0	mg/L	Q4	1.500	30	NR	80-120		20
<u>Batch B425981 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B425981-CCB1)				Prepared & Analyzed: 02/16/24					
Chloride	0.589	mg/L							
Calibration Check (B425981-CCV1)				Prepared & Analyzed: 02/16/24					
Chloride	4.80	mg/L		5.000		96	90-110		
<u>Batch B426022 - No Prep - SM 4500F C 1997</u>									
Calibration Blank (B426022-CCB1)				Prepared & Analyzed: 02/20/24					
Fluoride	0.0120	mg/L							
Calibration Check (B426022-CCV1)				Prepared & Analyzed: 02/20/24					
Fluoride	0.681	mg/L		0.7000		97	90-110		
Matrix Spike (B426022-MS6)				Sample: HB01601-10		Prepared & Analyzed: 02/20/24			
Fluoride	1.03	mg/L		1.000	0.0630	97	80-120		
Matrix Spike Dup (B426022-MSD6)				Sample: HB01601-10		Prepared & Analyzed: 02/20/24			
Fluoride	1.06	mg/L		1.000	0.0630	99	80-120	2	20
<u>Batch B426036 - No Prep - SM 2320B 1997</u>									

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (B426036-DUP1)	Sample: HB01318-01			Prepared & Analyzed: 02/20/24					
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO ₃	475	mg/L			450			5	10
Duplicate (B426036-DUP2)	Sample: HB01601-01			Prepared & Analyzed: 02/20/24					
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO ₃	762	mg/L			738			3	10
Duplicate (B426036-DUP3)	Sample: HB01601-11			Prepared & Analyzed: 02/20/24					
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO ₃	500	mg/L			475			5	10

NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.

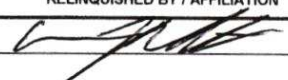


Certified by: Diane Billings, Project Manager



Page: of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: _____ of _____	
Company: Vistra Corp-Edwards		Report To: Brian Voelker		Attention: Mark Davis		REGULATORY AGENCY	
Address: 7800 Cilco Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp-Edwards			
Peoria, IL 61607		Mark Davis-Mark.Davis1@vistracorp.com		Address: see Section A		NPDES GROUND WATER DRINKING WATER	
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Quote Reference:		UST RCRA OTHER	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		Site Location	
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #		STATE: IL	

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Analysis Test ↑	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No./ Lab I.D.
		MATRIX	CODE			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other															
		DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS																													
1	Equipment Blank 1	WT	G	2/18/24	1530	4	X	X																								
2	Field Blank	WT	G	2/18/24	1545	4	X	X																								
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																
13																																
14																																
15																																
16																																
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION			DATE		TIME		SAMPLE CONDITIONS																
EDW-24Q1-Rev 0					2/18/24		1636					2/18/24		1636		✓ ✓ ✓																

SAMPLER NAME AND SIGNATURE		1-1/2	1.2	1	1	1
PRINT Name of SAMPLER: <i>AL, JB, AW, AM, LR</i>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YY): <i>02/08/24</i>					

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
 All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.
 Transducer data on SAR-4 form may be collected at anytime during the sampling event.
 Plant: EDW
 Event: EDW-24Q1

Well	Unique ID	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
						Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L/R)		
AP05S	EDW AP05#S		2/6/24	1442	41.63	21629301	Y	438.74	Y	H		AM
AP07S	EDW AP07#S			1228	24.43	21615552	Y	436.21	Y	H		AM
AW-01	EDW AW-01			0924	9.59	21615144	Y	455.05	Y	H		AM
AW-05	EDW AW-05			1411	8.15	21615132	Y	435.31	Y	H		AM
AW-06	EDW AW-06			1019	26.73	21615127	Y	435.09	Y	H		AM
AW-08	EDW AW-08			1243	21.93	21615722	Y	440.78	Y	H		AM
AW-09	EDW AW-09			0949	26.04	21615130	Y	435.66	Y	H		AM
AW-10	EDW AW-10			1355	1.99	21615754	Y	438.19	Y	H		AM
AW-11	EDW AW-11			1108	6.00	21615129	Y	434.12	Y	H		AM
AW-15	EDW AW-15			1213	8.78	21615761	Y	433.10	Y	H		AM
AW-15S	EDW AW-15#S			1214	9.50	21629298	Y	431.17	Y	H		AM
AW-16	EDW AW-16			0940	25.14	21615714	Y	436.87	Y	H		AM
AW-17	EDW AW-17			0954	26.00	21615756	Y	436.31	Y	H		AM
AW-18	EDW AW-18			0957	27.23	21615763	Y	435.59	Y	H		AM
AW-19	EDW AW-19			1025	13.73	21615718	Y	447.19	Y	H		AM
AW-21	EDW AW-21			1036	16.71	21615514	Y	444.12	Y	H		AM

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads

All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period. Transducer data on SAR-4 form may be collected at anytime during the sampling event.

Plant: EDW
Event: EDW-24Q1

Well	Unique ID	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data				Comments	Initials
						Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L/R)	
EMW-05	EDW EMW-05		2/6/24	12:33	19.96	21615739	Yes	437.80	Y	H	AM
XPW01A	EDW XPW01A_pore			10:43	11.48	21615740	Y	452.92	Y	H	AM
XPW02	EDW XPW02_pore			11:55	19.36	21615752	Y	454.58	Y	H	AM
XPW03	EDW XPW03_pore			11:41	16.57	21629300	Y	449.93	Y	H	AM
SG-01	EDW YILRIVER			12:30	4.47 44.7 RG 2/7/24	21768086	Y	37.08	Y	H	AM

U: 6/21/23 GKJ

Notes:

Batt = battery
bmp = below measuring point
ft = feet
H = high
L = low
M = medium
R = replaced

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 and SAR-4 must be collected within 24 hours.

Plant: EDW

Event: EDW-24Q1

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
AP08	EDW_AP08	2/6/24	1204	6.96		AM
AP09	EDW_AP09		1146	9.28		AM
APW-01	EDW_APW-01		1428	5.74		AM
AW-14	EDW_AW-14		1052	6.76		AM
AW-20	EDW_AW-20		1032	15.96		AM
AW-23	EDW_AW-23		1624	3.38		AM
OW-01	EDW_OW-01		1229	23.43		AM
OW-02	EDW_OW-02		1218	8.29		AM
PTW-01	EDW_PTW-01		1225	25.12		AM
PTW-02	EDW_PTW-02		1216	8.48		AM

U:6/21/23 GKJ

Site: Edwards Ash Pond

WELL/SAMPLE POINT AP05S

Purge Method: BLADDER

Date: 2/8/24 Start Time: 1438 Finish/Sample Time: 1531

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1.5 Gal / 10

Depth to Water From MP: 4.15 ft Total Purge Volume: 3.0 Gal / 10

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: .10 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1447	4.25	200	7.40	1730	13.16	-69	.51	0
2	1449	4.30	200	7.19	1730	13.07	-70	.40	0
3	1451	4.25	200	7.17	1730	12.93	-70	.40	0
4	1453	4.30	200	7.11	1730	12.98	-71	.35	0
5	1455	4.25	200	7.07	1730	12.92	-71	.37	0
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☒ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
Casing locked/secure	☒	
Well cap fits securely.	☒	
Good seal/drainage	☒	
Well has weep holes	☒	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL
1	2.5L RADS

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250mL) 1000mL

Ferrous Iron 4.25 mg/L
FDTW

Comments

Sampler's Signature: TWR

Site: Edwards Ash Pond

WELL/SAMPLE POINT **AP07S**

Purge Method: Compressor

Date: 2/8/24 Start Time: 14:38 Finish/Sample Time: 15:44

Well Depth (Bottom) From MP: 33.11 ft
Min. Purge Volume: _____ Gal / L
Depth to Water From MP: 24.14 ft
Total Purge Volume: 2.2 Gal (L)
Water Column Length: 8.97 ft
Max Drawdown: _____ ft
Well Water Volume: 5.43 Gal (L)
Total Drawdown: 1.04 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	14:51	24.42	100	7.32	1489	16.73	-29	0.85	158
2	14:54	24.42	100	7.03	1452	15.74	-32	0.00	133
3	14:57	24.42	100	6.83	1419	14.57	-30	0.00	95.1
4	15:00	24.42	100	6.73	1406	14.72	-27	0.00	66.1
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Oakton/Horiba

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000mL
1	(P, 2.5L, HNO3)

4

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL

Ferrous Iron _____ mg/L

Comments well was recharging at 100mL/min, Final DTW 25.18 ft
So increased to 200mL/min + still stable

Sampler's Signature: J Bohannon

WELL/SAMPLE POINT **AW-01**

Purge Method: Compressor

Date: 2/8/24 Start Time: 0912 Finish/Sample Time: 1112

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1 Gal ☒

Depth to Water From MP: 9.58 ft Total Purge Volume: 3.0 Gal ☒

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: 14.13 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	0949	12.94	100	7.01	2010	13.72	-76	0.42	0
2	0952	13.43	1	6.76	1760	13.63	-78	0.58	0
3	0955	13.94	1	6.69	1590	13.61	-78	0.74	0
4	0958	14.45	1	6.70	1530	13.63	-77	0.74	0
5	1001	15.94	1	6.70	1450	13.62	-75	0.97	0
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1L
1	RAD (2.5L, P, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250 mL) 1L

Final DTW
~~Ferrous Iron~~ 23.71 ~~mg/L~~

Comments

Sampler's Signature: [Signature]

WELL/SAMPLE POINT **AW-05**

Purge Method: Compressor

Date: 2/8/24 Start Time: 1328 Finish/Sample Time: 1435

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

Depth to Water From MP: 8.12 ft Total Purge Volume: 3.0 Gal (L)

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: .28 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1341	8.43	100	7.32	1780	14.61	51	1.33	0
2	1344	8.40	100	7.12	1780	14.57	51	1.16	0
3	1347	8.36	100	7.00	1770	14.57	44	1.02	0
4	1350	8.36	100	6.94	1770	14.56	36	.94	0
5	1353	8.40	100	6.92	1770	14.46	29	.96	0
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HOZIBA

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☒ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
Casing locked/secure	☒	
Well cap fits securely.	☒	
Good seal/drainage	☒	
Well has weep holes	☒	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL
1	7.5L RADS

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250mL) 1000mL

Ferrous Iron _____ mg/L 8.30

Comments

Sampler's Signature: [Signature]

EDTW

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-06

Purge Method: Blush

Date: 2/7/2024 Start Time: 1223 Finish/Sample Time: 1419

Well Depth (Bottom) From MP: _____ ft
Depth to Water From MP: 26.71 ft
Water Column Length: _____ ft
Well Water Volume: _____ Gal / L
Min. Purge Volume: 1000 Gal / L (mL)
Total Purge Volume: 1000 Gal / L (mL)
Max Drawdown: _____ ft
Total Drawdown: 11.39 ft

App 2/7/24

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1238	28.75	100	7.32	817	12.54	-90	1.01	71000
2	1241	29.09	100	7.31	810	12.57	-94	0.97	71000
3	1244	29.73	100	7.31	801	12.53	-100	0.83	71000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
121	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
121	General (P, 250 mL) 1000 mL
121	Ra (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
121	General (P, 500 mL) 1000 mL

Final DTW 38.10 FL
Ferrous Iron mg/L

Comments Field Dip Filter here

Sampler's Signature: _____

WELL/SAMPLE POINT **AW-08**

Purge Method: Peristaltic

Date: 8-Feb-24 Start Time: 1135 Finish/Sample Time: 1315

Well Depth (Bottom) From MP: 57.85 ft
Depth to Water From MP: 21.50 ft
Water Column Length: 36.35 ft
Well Water Volume: 22.01 Gal / 1
Min. Purge Volume: 1.5 Gal / 1
Total Purge Volume: 1.5 Gal / 0
Max Drawdown: ft
Total Drawdown: 10.15 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1154	24.30	100	6.90	1490	14.81	-100	1.83	1.49
2	1157	25.02	1	6.81	1490	14.86	-99	1.64	0.0
3	200	25.80	1	6.75	1490	14.91	-99	1.44	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hori'ba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL
1	Rad, P 2.5 L HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000 mL

Ferrous Iron mg/L

FDTW-31.65A4

Comments

Sampler's Signature: Austin M

WELL/SAMPLE POINT **AW-09**

Purge Method: Bladder

Date: 2/7/2024 Start Time: 1109 Finish/Sample Time: 1217

Well Depth (Bottom) From MP: _____ ft
Depth to Water From MP: 26.01 ft
Water Column Length: _____ ft
Well Water Volume: _____ Gal / L

Min. Purge Volume: 1000 Gal / L (mL)
Total Purge Volume: 1000 Gal / L (mL)
Max Drawdown: — ft
Total Drawdown: 9.65 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1121	29.90	100	7.03	1140	12.68	-126	1.26	59.6
2	1124	29.48	100	7.08	1130	12.66	-138	1.30	54.8
3	1127	28.95	100	7.10	1140	12.68	-141	1.35	34.6
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong
Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong
Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000mL
1	Ra1 (P, 2.5L, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000mL

Ferrous Iron Final DTW 35.64 mg/L

Comments Water level fluctuating a lot

Sampler's Signature: _____

WELL/SAMPLE POINT **AW-10**

Purge Method: peristaltic

Date: 2/8/2024 Start Time: 1359 Finish/Sample Time: 1506

Well Depth (Bottom) From MP: _____ ft
Min. Purge Volume: 1000 Gal / L ML
Depth to Water From MP: 0.80 ft
Total Purge Volume: 1000 Gal / L ML
Water Column Length: _____ ft
Max Drawdown: _____ ft
Well Water Volume: _____ Gal / L
Total Drawdown: 5.85 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1412	3.54	100	7.05	1710	13.33	-118	1.90	240
2	1415	3.93	100	7.05	1700	13.40	-119	1.80	286
3	1418	4.33	100	7.05	1700	13.42	-119	1.73	310
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL
1	As (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000 mL

Final 105w 6.65 AL
Ferrous-Iron mg/L

Comments

Sampler's Signature: [Signature]

WELL/SAMPLE POINT **AW-11**

Purge Method: Bladder

Date: 2/18/2024 Start Time: 1240 Finish/Sample Time: 1328

Well Depth (Bottom) From MP: _____ ft
Min. Purge Volume: 1000 Gal / L (mL)
Depth to Water From MP: 5.54 ft
Total Purge Volume: 1000 Gal / L (mL)
Water Column Length: _____ ft
Max Drawdown: — ft
Well Water Volume: _____ Gal / L
Total Drawdown: 0.06 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1255	5.65	200	7.06	1440	11.81	-134	1.27	779
2	1257	5.65	200	7.05	1450	11.76	-137	1.20	737
3	1259	5.65	200	7.05	1460	11.73	-137	1.14	718
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horizon

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
Casing locked/secure	☒	
Well cap fits securely.	☒	☒
Good seal/drainage	☒	
Well has weep holes	☒	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL
1	Red (P, 250mL, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000mL

Final DTW 5.60 PL
Ferrous Iron mg/L

App 2/18/24

Comments

Sampler's Signature: _____

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-14

Purge Method: Bladder

Date: 2/8/2024 Start Time: 1130 Finish/Sample Time: 1238

Well Depth (Bottom) From MP: _____ ft
Depth to Water From MP: 6.65 ft
Water Column Length: _____ ft
Well Water Volume: _____ Gal / L
Min. Purge Volume: 1000 Gal / L ML
Total Purge Volume: 1000 Gal / L ML
Max Drawdown: _____ ft
Total Drawdown: 9.43 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1144	9.48	100	7.06	1440	11.62	-121	0.46	179
2	1147	9.86	100	7.04	1440	11.57	-122	0.42	165
3	1150	10.43	100	7.05	1430	11.49	-123	0.46	156
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
Casing locked/secure	☒	
Well cap fits securely.	☒	
Good seal/drainage	☒	
Well has weep holes		☒

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL
1	Ras (P, 2.5L, HNO3)

4

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL) 1000mL

Final DTW
Ferrous Iron 16.08 mg/L

Comments

Sampler's Signature: _____

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-15

Purge Method: Bladder

Date: 2/8/2024 Start Time: 0937 Finish/Sample Time: 1014

Well Depth (Bottom) From MP: _____ ft
Min. Purge Volume: 1000 Gal / L (mL)
Depth to Water From MP: 8.80 ft
Total Purge Volume: 1000 Gal / L (mL)
Water Column Length: _____ ft
Max Drawdown: — ft
Well Water Volume: _____ Gal / L
Total Drawdown: 0.10 ft

1580 App 2/8/24

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	0945	8.96	200	6.83	1286	12.86	-90	0.80	62.6
2	0947	8.96	200	6.83	1570	12.92	-94	0.74	42.2
3	0949	8.96	200	6.83	1560	13.06	-102	0.67	34.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☐	☒
Well has weep holes	☐	☒

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000mL
1	Rad (P, 250 mL, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL) 1000mL

Final DTW 8.90 AL
Ferrous Iron mg/L

Comments

Sampler's Signature: _____

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-15S

Purge Method: Blank

Date: 2/8/2024 Start Time: 10 16 Finish/Sample Time: 1126

Well Depth (Bottom) From MP: _____ ft
Depth to Water From MP: 9.34 ft
Water Column Length: _____ ft
Well Water Volume: _____ Gal / L
Min. Purge Volume: 1000 Gal / L ml
Total Purge Volume: 1000 Gal / L ml
Max Drawdown: _____ ft
Total Drawdown: _____ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	10 28	10.47	100	7.04	1430	12.65	10	0.62	12.0
2	10 31	10.62	100	7.03	1430	12.64	15	0.58	2.4
3	10 34	10.76	100	7.03	1420	12.65	19	0.59	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage		X
Well has weep holes		X

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL
1	As (P, 2.5 L, HNO3)

4

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL) 1000 mL

Final A7W 13.15
Ferrous Iron Ft
mg/L

Comments

Sampler's Signature: _____

WELL/SAMPLE POINT AW-16

Purge Method: Compressor

Date: 2/8/2024 Start Time: 12:23 Finish/Sample Time: 2:07

Well Depth (Bottom) From MP: 57.48 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 24.92 ft Total Purge Volume: 2.00 Gal (L)

Water Column Length: 32.56 ft Max Drawdown: _____ ft

Well Water Volume: 19.72 Gal / L Total Drawdown: 0.9 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	12:39	25.63	100	6.85	2110	14.92	-105	0.00	0.0
2	12:42	25.63	100	6.68	2130	14.78	-116	0.00	0.0
3	12:45	26.07	100	6.52	2120	14.67	-121	0.00	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba/Oakton

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1+1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1+1	General (P, 250mL) 1000 mL
1+1	(P, 2.5L, HNO3)

4
+4

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1+1	General (P, 250mL) 1000 mL

Ferrous Iron _____ mg/L

Comments Duplicate Collected Here Final DTW 25.82 ft

Sampler's Signature: J Bohannon

Site: **Edwards Ash Pond**

WELL/SAMPLE POINT **AW-17**

Purge Method: Compressor

Date: 2/8/24 Start Time: 10:56 Finish/Sample Time: 12:05

Well Depth (Bottom) From MP: 56.52 ft
Min. Purge Volume: _____ Gal / L
Depth to Water From MP: 25.56 ft
Total Purge Volume: 2.100 Gal (1)
Water Column Length: 30.96 ft
Max Drawdown: _____ ft
Well Water Volume: 18.75 Gal (1)
Total Drawdown: 1.4 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	11:12	26.25	100	6.58	1761	13.52	-117	0.00	95.5
2	11:15	26.25	100	6.53	1751	13.40	-128	0.00	93.7
3	11:18	26.25	100	6.51	1776	13.37	-132	0.00	91.9
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba/Oakton

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000 mL
1	(P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250mL) 1000 mL

Ferrous Iron 26.96 mg/L
Final DTW ft

Comments

Sampler's Signature: J Bohannon

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-18

Purge Method: Bladder

Date: 2/7/24 Start Time: 1427 Finish/Sample Time: 1533

Well Depth (Bottom) From MP: _____ ft
Min. Purge Volume: 1000 Gal / L 2L
Depth to Water From MP: 27.14 ft
Total Purge Volume: 1000 Gal / L 2L
Water Column Length: _____ ft
Max Drawdown: - ft
Well Water Volume: _____ Gal / L
Total Drawdown: 3.82 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1439	28.65	100	7.06	1490	12.52	-91	0.87	71.0
2	1442	28.80	100	7.05	1490	12.56	-97	0.77	65.3
3	1445	29.25	100	7.05	1490	12.67	-106	0.69	62.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	☐
Casing locked/secure	☒	☐
Well cap fits securely.	☒	☐
Good seal/drainage	☒	☐
Well has weep holes	☒	☐

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL
1	Rad (P, 2.5L, HNO3)

4

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000mL

Final ORP 30.96 2L
Ferrous Iron _____ mg/L

Comments

Sampler's Signature: _____

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-19

Purge Method: Compressor

Date: 2/8/2024 Start Time: 09:25 Finish/Sample Time: 10:35

Well Depth (Bottom) From MP: 39.03 ft
Depth to Water From MP: 13.67 ft
Water Column Length: 25.36 ft
Well Water Volume: 15.36 Gal / L
Min. Purge Volume: _____ Gal / L
Total Purge Volume: 2.20 Gal (L)
Max Drawdown: _____ ft
Total Drawdown: 3.69 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	9:41	15.42	100	9.07	1421	13.07	-62	0.00	99.0
2	9:44	15.70	100	7.44	1300	13.31	-81	0.00	83.9
3	9:47	15.92	100	7.08	1249	13.37	-82	0.00	80.3
4	9:50	16.01	100	6.89	1212	13.40	-83	0.00	68.9
5	9:53	16.17	100	6.75	1185	13.42	-85	0.00	60.6
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba/Oakton

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 1000 mL
1	(P, 2.5L, HNO3)

4

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250 1000 mL

Ferrous Iron _____ mg/L

Final DTW 17.36 ft

Comments

Sampler's Signature: J Bohannon

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-21

Purge Method: Compressor

Date: 2/7/2024 Start Time: 14:24 Finish/Sample Time: 15:19

Well Depth (Bottom) From MP: 35.23 ft
Depth to Water From MP: 16.79 ft
Water Column Length: 18.44 ft
Well Water Volume: 11.17 Gal / L

Min. Purge Volume: _____ Gal / L
Total Purge Volume: 2.2 Gal / L
Max Drawdown: _____ ft
Total Drawdown: 1.81 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	14:45	18.11	100	10.24	712	12.35	25	4.21	23.2
2	14:48	18.11	100	9.65	752	12.39	-14	3.38	17.0
3	14:51	18.11	100	9.23	785	12.41	-31	3.00	12.6
4	14:54	18.11	100	9.05	817	12.43	-37	2.82	12.5
5	14:57	18.11	100	8.94	842	12.45	-39	2.79	11.4
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	(P, 2.5L, HNO3)
1	General (1000 mL, P)

4

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000 mL)

Ferrous Iron _____ mg/L

Final DTW 18.58 ft

Comments

Sampler's Signature: J Bohannon

WELL/SAMPLE POINT **XPW01A**

Purge Method: Compressor

Date: 04/02/07/2024 Start Time: 10:30 Finish/Sample Time: 11:32

Well Depth (Bottom) From MP: 35.90 ft Min. Purge Volume: _____ Gal / L
Depth to Water From MP: 11.52 ft Total Purge Volume: 2.5 Gal B
Water Column Length: 24.38 ft Max Drawdown: _____ ft
Well Water Volume: 14.76 Gal / L Total Drawdown: 0.18 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	11:00	11.80	100	11.94	1960	11.50	111	1.35	10.0
2	11:03	11.80	100	12.25	1930	12.15	44	0.00	11.6
3	11:06	11.80	100	12.32	1930	12.35	-34	0.00	9.1
4	11:09	11.80	100	12.34	1930	12.44	-35	0.00	8.6
5	11:12	11.80	100	12.36	1930	12.53	-35	0.00	8.1
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
Casing locked/secure	☒	
Well cap fits securely.	☒	
Good seal/drainage	☒	
Well has weep holes	☒	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	General (P, 500mL)

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final Depth 11.70 ft

Ferrous Iron _____ mg/L

Comments 10:56, water hose came off of Horiba, which then drained and needed re filled

Sampler's Signature: J Bohannon

Site: Edwards Ash Pond

WELL/SAMPLE POINT XPW02

Purge Method: Compressor

Date: 02/07/2024 Start Time: 11:55 Finish/Sample Time: 12:27

Well Depth (Bottom) From MP: 41.23 ft Min. Purge Volume: _____ Gal / L
Depth to Water From MP: 19.32 ft Total Purge Volume: 2.0 Gal (1L)
Water Column Length: 21.91 ft Max Drawdown: _____ ft
Well Water Volume: 13.27 Gal / L Total Drawdown: 0.02 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	12:10	19.51	200	12.60	4410	13.50	-49	0.00	0.0
2	12:12	19.51	200	12.78	4480	13.45	-60	0.00	0.0
3	12:13	19.51	200	12.88	4510	13.48	-68	0.00	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	General (P, 50 1000mL)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final DTW: 19.34ft

Ferrous Iron _____ mg/L

Comments Well recharging, increased to 800ml/min and still recharging
pH + Spec Con Confirmed with Oatton

Sampler's Signature: [Signature]

WELL/SAMPLE POINT XPW03

Purge Method: Compressor

Date: 2/7/84 Start Time: 13:20 Finish/Sample Time: 13:52

Well Depth (Bottom) From MP: 31.95 ft
Depth to Water From MP: 16.54 ft
Water Column Length: 15.41 ft
Well Water Volume: 9.33 Gal / L

Min. Purge Volume: _____ Gal / L
Total Purge Volume: 1.9 Gal (L)
Max Drawdown: _____ ft
Total Drawdown: 0.5 (ft)

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	13:29	16.92	100	12.64	2030	12.64	-138	0.09	43.3
2	13:32	16.92	100	12.63	1990	12.63	-146	0.00	32.8
3	13:35	16.92	100	12.61	1960	12.64	-149	0.00	27.1
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	General (P, 500 1000mL)

3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)

Final DTW 16.94

Ferrous Iron mg/L

Comments

Sampler's Signature:

J Bohannan

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Jordan Bohannon</u>				Location: <u>EDWARDS Power Plant</u>					
Weather: <u>29-52°F, mostly cloudy, 8mph wind</u>				Environment: <u>Gravel, Muddy, high growing plants</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>U-5000</u>	Serial Number: <u>AGJTK 4XG</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dipper T</u>	Serial Number: <u>19FF 2111192 HB</u>					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.69</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Yes</u>	<u>4.00</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.23</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Yes</u>	<u>7.00</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.26</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Yes</u>	<u>10.00</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>0.00</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1997</u>	µS/cm	±5%	<u>P</u>	<u>No</u>	<u>N/A</u>	Geotech	3GF1197	Jun-24
ORP	<u>234</u>	mV	±15 mV	<u>P</u>	<u>No</u>	<u>N/A</u>	InSitu	3GI1011	Jun-24
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1	<u>P</u>	<u>No</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.3%</u>	%	97-100%	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>10:12</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.69</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>None</u>	Geotech	3GB1049	Feb-25	
pH 7.00b	<u>6.50</u>	s.u.	±0.15 s.u.	<u>F</u>	<u>Calibrated: 7.01</u>	Geotech	2GF113	Jun-24	
pH 10.00b	<u>10.11</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>None</u>	Geotech	3GA1134	Jan-25	
SC 1000	<u>1002</u>	µS/cm	±5%	<u>P</u>	<u>None</u>	Ricca	4209A12	Aug-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>15:05</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	022361-01	12/27/2024
SC 1000	<u>1001</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Ricca	4209A12	Aug-24
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1 mg/L	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>/</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<u>/</u>	s.u.	±0.1 s.u.	<u>/</u>	<u>/</u>	<u>/</u>	MSI	023067-01	3/14/2025
7.00a	<u>/</u>	s.u.	±0.1 s.u.	<u>/</u>	<u>/</u>	<u>/</u>	MSI	023051-02	2/21/2025
10.00a	<u>/</u>	s.u.	±0.1 s.u.	<u>/</u>	<u>/</u>	<u>/</u>	MSI	022361-01	12/27/2024
SC 1000	<u>/</u>	µS/cm	±5%	<u>/</u>	<u>/</u>	<u>/</u>	Ricca	4209A12	Aug-24
DO (Zero pt)	<u>/</u>	mg/L	±0.1 mg/L	<u>/</u>	<u>/</u>	<u>/</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>/</u>	NTU	<2 NTU	<u>/</u>	<u>/</u>	<u>/</u>	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>J Bohannon</u>	Date: <u>02/07/2024</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>AP, AW</u>				Location: <u>Edwards</u>					
Weather: <u>Mostly Cloudy, 44°-53°</u>				Environment: <u>Grass, Gravel, mud</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>U-5000</u>	Serial Number: <u>WUG83C85</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dipper-T</u>	Serial Number: <u>19FF2202131ML</u>					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.10</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>-</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>6.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>-</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>9.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>-</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>0.00</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>-</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2020</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>-</u>	Geotech	3GF1197	Jun-24
ORP	<u>242</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>-</u>	InSitu	3GI1011	Jun-24
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>-</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.7</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>-</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>-</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>10:45</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.05</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Geotech	3GB1049	Feb-25	
pH 7.00b	<u>6.75</u>	s.u.	±0.15 s.u.	<u>F</u>	<u>YES</u> <u>7.01</u>	Geotech	2GF113	Jun-24	
pH 10.00b	<u>10.03</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Geotech	3GA1134	Jan-25	
SC 1000	<u>1010</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	Ricca	4209A12	Aug-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>15:45</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.33</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>YES</u>	<u>4.00</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>6.92</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>YES</u>	<u>7.00</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>-</u>	MSI	022361-01	12/27/2024
SC 1000	<u>1010</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>-</u>	Ricca	4209A12	Aug-24
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>-</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>-</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>Andrew Wetzel</u>	Date: <u>2/7/24</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Austin Moore/Logan Ross</i>				Location: <i>Edwards</i>					
Weather: <i>60-46° cloudy</i>				Environment: <i>Power Plant, muddy</i>					
Multiparameter Water Meter		Make: <i>Hach</i>	Model: <i>U-5000</i>	Serial Number: <i>PW26YJD3</i>					
Water Level Meter		Make: <i>WT</i>	Model: <i>Herron</i>	Serial Number: <i>11FF-2209309ML</i>					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>3.98</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>7.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.05</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N</i>	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>N</i>	<i>N</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1990</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	<i>N</i>	Geotech	3GF1197	Jun-24
ORP	<i>237</i>	mV	±15 mV	<i>P</i>	<i>N</i>	<i>N</i>	InSitu	3GI1011	Jun-24
DO (Zero pt)	<i>0.00</i>	mg/L	±0.1	<i>P</i>	<i>N</i>	<i>N</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.8</i>	%	97-100%	<i>P</i>	<i>N</i>	<i>N</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	<i>N</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>07:15</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>4.01</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	3GB1049	Feb-25	
pH 7.00b	<i>7.06</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N</i>	Geotech	2GF113	Jun-24	
pH 10.00b	<i>10.08</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N</i>	Geotech	3GA1134	Jan-25	
SC 1000	<i>986</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	Ricca	4209A12	Aug-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1455</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.08</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.97</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.99</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N</i>	MSI	022361-01	12/27/2024
SC 1000	<i>977</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	<i>N</i>	Ricca	4209A12	Aug-24
DO (Zero pt)	<i>0.0</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>N</i>	<i>N</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	<i>N</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>/</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023067-01	3/14/2025
7.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023051-02	2/21/2025
10.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	022361-01	12/27/2024
SC 1000	<i>/</i>	µS/cm	±5%	<i>/</i>	<i>/</i>	<i>/</i>	Ricca	4209A12	Aug-24
DO (Zero pt)	<i>/</i>	mg/L	±0.1 mg/L	<i>/</i>	<i>/</i>	<i>/</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>/</i>	NTU	<2 NTU	<i>/</i>	<i>/</i>	<i>/</i>	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <i>[Signature]</i>	Date: <i>2/8/24</i>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>AW, AP</u>				Location: <u>Edwards</u>			
Weather: <u>Mostly Cloudy 46°-60° Windy</u>				Environment: <u>Mud, gravel, rocks</u>			
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>U-5000</u>	Serial Number: <u>WUG93C85</u>			
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dippo-T</u>	Serial Number: <u>19FF2202131ML</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.13</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>YES</u>	<u>4.00</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>6.83</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>YES</u>	<u>7.01</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>1</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2010</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>1</u>	Geotech	3GF1197	Jun-24
ORP	<u>240</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>1</u>	InSitu	3GI1011	Jun-24
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>1</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.2</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>1</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>1</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>7:15</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Geotech	3GB1049	Feb-25
pH 7.00b	<u>6.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Geotech	2GF113	Jun-24
pH 10.00b	<u>10.03</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Geotech	3GA1134	Jan-25
SC 1000	<u>1020</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>15:15</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>1</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>1</u>	MSI	022361-01	12/27/2024
SC 1000	<u>1040</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>1</u>	Ricca	4209A12	Aug-24
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>1</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>1</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>[Signature]</u>	Date: <u>2/8/24</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Jordan Bohannon</u>				Location: <u>Edwards</u>			
Weather: <u>45°-60°F, Cloudy 13mph wind</u>				Environment: <u>Muddy, Gravel, Tall growing plants</u>			
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>U-5000</u>	Serial Number: <u>AGJTK4XG</u>			
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dipper T</u>	Serial Number: <u>19FF211192HB</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.68</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Yes</u>	<u>4.00</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.13</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>7.00</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.30</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>10.00</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>0005</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>—</u>	µS/cm	±5%	<u>—</u>	<u>—</u>	<u>—</u>	Geotech	3GF1197	Jun-24
ORP	<u>333</u>	mV	±15 mV	<u>P</u>	<u>No</u>	<u>N/A</u>	InSitu	3GI1011	Jun-24
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1	<u>P</u>	<u>No</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>100%</u>	%	97-100%	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>7:14</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.94</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>None</u>	Geotech	3GB1049	Feb-25	
pH 7.00b	<u>6.88</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	2GF113	Jun-24	
pH 10.00b	<u>10.12</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	3GA1134	Jan-25	
SC 1000	<u>—</u>	µS/cm	±5%	<u>—</u>	<u>—</u>	Ricca	4209A12	Aug-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>15:19</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.97</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	022361-01	12/27/2024
SC 1000	<u>—</u>	µS/cm	±5%	<u>—</u>	<u>—</u>	<u>—</u>	Ricca	4209A12	Aug-24
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>No</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU	<u>P</u>	<u>No</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments: Despite calibration, Horiba would not work for specion, so an action was used

Signature: <u>J Bohannon</u>	Date: <u>2/8/2024</u>
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Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

March 13, 2024

Brian Voelker
Vistra - Edwards
604 Pierce Boulevard
O'Fallon, IL 62269

Dear Brian Voelker:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Sincerely,

A handwritten signature in cursive script, appearing to read "Diane Billings".

Diane Billings
Project Manager

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order	HB01314
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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided

Work Order HB01605

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided

ANALYTICAL RESULTS

Sample: HB01314-01
Name: AW-06
Matrix: Ground Water - Grab

Sampled: 02/07/24 14:19
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.2	pCi/L			1	0.811	02/22/24 16:49	PACE	904.0 903.0
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Sample: HB01314-02
Name: AW-06 DUP
Matrix: Ground Water - Grab

Sampled: 02/07/24 14:19
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.671 U	pCi/L			1	0.543	02/22/24 16:49	PACE	904.0 903.0
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Sample: HB01314-03
Name: AW-09
Matrix: Ground Water - Grab

Sampled: 02/07/24 12:17
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.807	pCi/L			1	0.522	02/22/24 16:49	PACE	904.0 903.0
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Sample: HB01314-04
Name: AW-18
Matrix: Ground Water - Grab

Sampled: 02/07/24 15:33
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	3.45	pCi/L			1	0.449	02/22/24 16:49	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: HB01314-05
Name: AW-21
Matrix: Ground Water - Grab

Sampled: 02/07/24 15:19
Received: 02/07/24 16:25

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.03	pCi/L			1	0.432	02/22/24 16:49	PACE	904.0 903.0
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Sample: HB01605-01
Name: AP05S
Matrix: Ground Water - Grab

Sampled: 02/08/24 15:31
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.58	pCi/L			1	1.22	03/01/24 21:53	PACE	904.0 903.0
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Sample: HB01605-02
Name: AP07S
Matrix: Ground Water - Grab

Sampled: 02/08/24 15:44
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.487 J	pCi/L			1	0.58	03/01/24 21:53	PACE	904.0 903.0
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Sample: HB01605-03
Name: AW-01
Matrix: Ground Water - Grab

Sampled: 02/08/24 11:12
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.444 J	pCi/L			1	0.57	03/01/24 21:53	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: HB01605-04
Name: AW-01 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 02/08/24 11:12
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.395 J	pCi/L			1	0.599	03/01/24 21:53	PACE	904.0 903.0
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Sample: HB01605-05
Name: AW-05
Matrix: Ground Water - Grab

Sampled: 02/08/24 14:35
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.861 J	pCi/L			1	1.01	03/01/24 21:53	PACE	904.0 903.0
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Sample: HB01605-06
Name: AW-08
Matrix: Ground Water - Grab

Sampled: 02/08/24 13:15
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.54	pCi/L			1	0.755	03/01/24 21:53	PACE	904.0 903.0
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Sample: HB01605-07
Name: AW-10
Matrix: Ground Water - Grab

Sampled: 02/08/24 15:06
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	2.08	pCi/L			1	0.969	03/01/24 21:53	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: HB01605-08
Name: AW-11
Matrix: Ground Water - Grab

Sampled: 02/08/24 13:28
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	2.82	pCi/L			1	1.09	03/01/24 21:53	PACE	904.0 903.0
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Sample: HB01605-09
Name: AW-14
Matrix: Ground Water - Grab

Sampled: 02/08/24 12:38
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.74	pCi/L			1	0.803	03/01/24 21:53	PACE	904.0 903.0
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Sample: HB01605-10
Name: AW-15
Matrix: Ground Water - Grab

Sampled: 02/08/24 10:14
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	5.34	pCi/L			1	0.755	03/01/24 21:53	PACE	904.0 903.0
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Sample: HB01605-11
Name: AW-15S
Matrix: Ground Water - Grab

Sampled: 02/08/24 11:26
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.522 J	pCi/L			1	0.686	03/01/24 21:53	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: HB01605-12
Name: AW-16
Matrix: Ground Water - Grab

Sampled: 02/08/24 14:07
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	3.46	pCi/L			1	0.421	03/01/24 21:53	PACE	904.0 903.0
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Sample: HB01605-13
Name: AW-16 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 02/08/24 14:07
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	3.76	pCi/L			1	0.492	03/01/24 21:53	PACE	904.0 903.0
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Sample: HB01605-14
Name: AW-17
Matrix: Ground Water - Grab

Sampled: 02/08/24 12:05
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	2.26	pCi/L			1	0.469	03/01/24 21:53	PACE	904.0 903.0
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Sample: HB01605-15
Name: AW-19
Matrix: Ground Water - Grab

Sampled: 02/08/24 10:35
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	1.17	pCi/L			1	0.576	03/01/24 21:53	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: HB01605-16
Name: EB-01
Matrix: DI Water - Equipment Blank

Sampled: 02/08/24 15:30
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.206 J	pCi/L			1	0.424	03/01/24 21:53	PACE	904.0 903.0
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Sample: HB01605-17
Name: FIELD BLANK
Matrix: DI Water - Field Blank

Sampled: 02/08/24 15:45
Received: 02/08/24 16:36

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	0.68	pCi/L			1	0.53	03/01/24 21:53	PACE	904.0 903.0
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NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

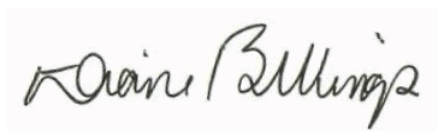
STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Diane Billings, Project Manager



ANALYTICAL REPORT

March 13, 2024

Revised Report

Pace IR - Peoria, IL

Sample Delivery Group: L1704317
Samples Received: 02/09/2024
Project Number: HB01314
Description:

Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

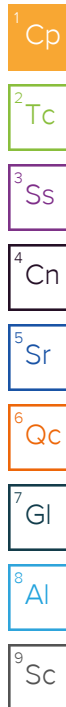


Haley Torrence
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com



Cp: Cover Page	1	1 Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	2 Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	3 Ss
HB01314-01 L1704317-01	5	
HB01314-02 L1704317-02	6	4 Cn
HB01314-03 L1704317-03	7	5 Sr
HB01314-04 L1704317-04	8	
HB01314-05 L1704317-05	9	6 Qc
Qc: Quality Control Summary	10	
Radiochemistry by Method 904/9320	10	7 Gl
Radiochemistry by Method SM7500Ra B M	11	8 Al
Gl: Glossary of Terms	12	
Al: Accreditations & Locations	13	9 Sc
Sc: Sample Chain of Custody	14	

SAMPLE SUMMARY

HB01314-01 L1704317-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2225536	1	02/14/24 22:43	02/22/24 16:49	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2224523	1	02/12/24 12:10	02/22/24 16:49	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2224523	1	02/12/24 12:10	02/15/24 18:19	ZRG	Mt. Juliet, TN

Collected by

Collected date/time

Received date/time

02/07/24 14:19

02/09/24 09:00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

HB01314-02 L1704317-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2225536	1	02/14/24 22:43	02/22/24 16:49	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2224523	1	02/12/24 12:10	02/22/24 16:49	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2224523	1	02/12/24 12:10	02/15/24 18:19	ZRG	Mt. Juliet, TN

Collected by

Collected date/time

Received date/time

02/07/24 14:19

02/09/24 09:00

HB01314-03 L1704317-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2225536	1	02/14/24 22:43	02/22/24 16:49	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2224523	1	02/12/24 12:10	02/22/24 16:49	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2224523	1	02/12/24 12:10	02/15/24 18:19	ZRG	Mt. Juliet, TN

Collected by

Collected date/time

Received date/time

02/07/24 12:17

02/09/24 09:00

HB01314-04 L1704317-04 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2225536	1	02/14/24 22:43	02/22/24 16:49	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2224523	1	02/12/24 12:10	02/22/24 16:49	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2224523	1	02/12/24 12:10	02/15/24 18:19	ZRG	Mt. Juliet, TN

Collected by

Collected date/time

Received date/time

02/07/24 15:33

02/09/24 09:00

HB01314-05 L1704317-05 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2225536	1	02/14/24 22:43	02/22/24 16:49	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2224523	1	02/12/24 12:10	02/22/24 16:49	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2224523	1	02/12/24 12:10	02/15/24 18:19	ZRG	Mt. Juliet, TN

Collected by

Collected date/time

Received date/time

02/07/24 15:19

02/09/24 09:00

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence
Project Manager

Report Revision History

Level II Report - Version 1: 02/29/24 15:48
Level IV Report - Version 2: 02/29/24 16:07

Project Narrative



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.05		0.419	1.32	0.791	0.412	02/22/2024 16:49	WG2225536
(T) Barium	117					30.0-143	02/22/2024 16:49	WG2225536
(T) Yttrium	87.9					30.0-136	02/22/2024 16:49	WG2225536

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.20		0.447	0.811	02/22/2024 16:49	WG2224523

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.149	J	0.157	0.0687	0.181	0.149	02/15/2024 18:19	WG2224523
(T) Barium-133	87.0					30.0-143	02/15/2024 18:19	WG2224523

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.123	U	0.261	2.47	0.515	0.268	02/22/2024 16:49	WG2225536
(T) Barium	117					30.0-143	02/22/2024 16:49	WG2225536
(T) Yttrium	97.8					30.0-136	02/22/2024 16:49	WG2225536

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0671	U	0.282	0.543	02/22/2024 16:49	WG2224523

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0671	J	0.108	0.0478	0.172	0.142	02/15/2024 18:19	WG2224523
(T) Barium-133	89.6					30.0-143	02/15/2024 18:19	WG2224523

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.590		0.260	1.16	0.492	0.257	02/22/2024 16:49	WG2225536
(T) Barium	121					30.0-143	02/22/2024 16:49	WG2225536
(T) Yttrium	91.3					30.0-136	02/22/2024 16:49	WG2225536

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.807		0.318	0.522	02/22/2024 16:49	WG2224523

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.217		0.183	0.0841	0.173	0.143	02/15/2024 18:19	WG2224523
(T) Barium-133	91.0					30.0-143	02/15/2024 18:19	WG2224523

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.56		0.249	0.511	0.407	0.214	02/22/2024 16:49	WG2225536
(T) Barium	126					30.0-143	02/22/2024 16:49	WG2225536
(T) Yttrium	104					30.0-136	02/22/2024 16:49	WG2225536

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.45		0.434	0.449	02/22/2024 16:49	WG2224523

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.888		0.356	0.175	0.190	0.149	02/15/2024 18:19	WG2224523
(T) Barium-133	94.8					30.0-143	02/15/2024 18:19	WG2224523

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.770		0.218	0.897	0.403	0.212	02/22/2024 16:49	WG2225536
(T) Barium	114					30.0-143	02/22/2024 16:49	WG2225536
(T) Yttrium	97.4					30.0-136	02/22/2024 16:49	WG2225536

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.03		0.288	0.432	02/22/2024 16:49	WG2224523

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.262		0.188	0.0947	0.155	0.128	02/15/2024 18:19	WG2224523
(T) Barium-133	98.8					30.0-143	02/15/2024 18:19	WG2224523

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4039034-1 02/21/24 22:20

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.0620	<u>U</u>	0.189	0.178	0.0919
(T) Barium	113		113		
(T) Yttrium	103		103		

L1704317-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1704317-01 02/22/24 16:49 • (DUP) R4039034-5 02/22/24 16:49

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.05	0.419	0.791	0.412	0.344	0.324	0.626	0.327	101	1.33	<u>J</u>	20	3
(T) Barium	117				124	124							
(T) Yttrium	87.9				99.9	99.9							

Laboratory Control Sample (LCS)

(LCS) R4039034-2 02/22/24 16:49

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.26	105	80.0-120	
(T) Barium			111		
(T) Yttrium			99.2		

L1704299-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1704299-01 02/22/24 16:49 • (MS) R4039034-3 02/22/24 16:49 • (MSD) R4039034-4 02/22/24 16:49

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	1.27	18.8	15.8	105	87.3	1	70.0-130			16.9		20
(T) Barium		133			125	127							
(T) Yttrium		102			104	112							

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Method Blank (MB)

(MB) R4035727-1 02/14/24 23:36

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.00498	<u>U</u>	0.0169	0.0350	0.0250
(T) Barium-133	67.0		67.0		

L1703450-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1703450-01 02/15/24 18:19 • (DUP) R4035727-5 02/15/24 18:19

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.535	0.272	0.181	0.142	0.109	0.137	0.180	0.149	132	1.40	<u>J</u>	20	3
(T) Barium-133	91.8				87.1	87.1							

Laboratory Control Sample (LCS)

(LCS) R4035727-2 02/15/24 18:19

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	4.98	99.7	80.0-120	
(T) Barium-133			48.9		

L1704317-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1704317-05 02/15/24 18:19 • (MS) R4035727-3 02/15/24 18:19 • (MSD) R4035727-4 02/15/24 18:19

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.262	18.6	20.4	91.6	101	1	75.0-125			9.53		20
(T) Barium-133		98.8			86.0	88.3							

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

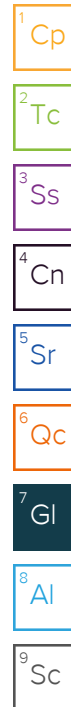
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

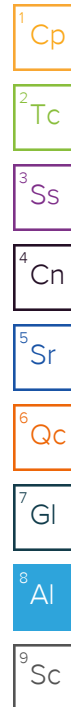
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

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

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

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



SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC

C090

HB01314

SENDING LABORATORY

PDC Laboratories, Inc.
 2231 W Altorfer Dr
 Peoria, IL 61615
 (800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, TN
 12065 Lebanon Rd
 Mt Juliet, TN 37122
 (615) 758-5858

U704317

Sample: HB01314-01
Name: AW-06

Sampled: 02/07/24 14:19
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis

Due

Expires

Comments

01-Radium 226/228 combined	02/20/24 16:00	08/05/24 14:19	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	02/20/24 16:00	08/05/24 14:19	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample: HB01314-02
Name: AW-06 DUP

Sampled: 02/07/24 14:19
Matrix: Ground Water
Preservative: HNO3, pH <2

-02

Analysis

Due

Expires

Comments

01-Radium 226/228 combined	02/20/24 16:00	08/05/24 14:19	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	02/20/24 16:00	08/05/24 14:19	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample: HB01314-03
Name: AW-09

Sampled: 02/07/24 12:17
Matrix: Ground Water
Preservative: HNO3, pH <2

-03

Analysis

Due

Expires

Comments

01-Radium 226/228 combined	02/20/24 16:00	08/05/24 12:17	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	02/20/24 16:00	08/05/24 12:17	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

SUBCONTRACT ORDER
Transfer Chain of Custody
Pace Analytical Services, LLC
HB01314

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

L1704317

Sample: HB01314-04
Name: AW-18

Sampled: 02/07/24 15:33
Matrix: Ground Water
Preservative: HNO3, pH <2

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/20/24 16:00	08/05/24 15:33	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	02/20/24 16:00	08/05/24 15:33	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

21712518

Sample: HB01314-05
Name: AW-21

Sampled: 02/07/24 15:14
Matrix: Ground Water
Preservative: HNO3, pH <2

1519
-05

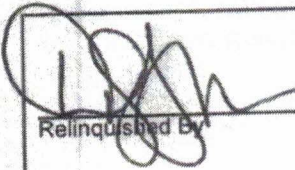
Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/20/24 16:00	08/05/24 15:14	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	02/20/24 16:00	08/05/24 15:14	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample Receipt Checklist
COC Seal Present/Intact: ☒ N ☐ Y If Applicable
COC Signed/Accurate: ☒ N ☐ Y
Bottles arrive intact: ☒ N ☐ Y
Correct bottles used: ☒ N ☐ Y
Sufficient volume sent: ☒ N ☐ Y
RA Screen <0.5 mR/hr: ☒ N ☐ Y
Pres Correct/Check: ☒ Y ☐ N
Amo

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 2/8/24 Total # of Containers: 5 Sample Origin (State): IL PO #: _____

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

Relinquished By: 	Date/Time: <u>2/8/24 1115</u>	Received By: _____	Date/Time: _____	Sample Temperature Upon Receipt: _____ °C
Relinquished By: _____	Date/Time: _____	Received By: <i>N. Jones</i>	Date/Time: <u>2/8/24 0900</u>	Sample(s) Received on Ice: Y or N
				Proper Bottles Received in Good Condition: Y or N
				Bottles Filled with Adequate Volume: Y or N
				Samples Received Within Hold Time: Y or N
				Date/Time Taken From Sample Bottle: Y or N

ANALYTICAL REPORT

March 06, 2024

Pace IR - Peoria, IL

Sample Delivery Group: L1705233

Samples Received: 02/13/2024

Project Number:

Description:

Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:



Haley Torrence
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

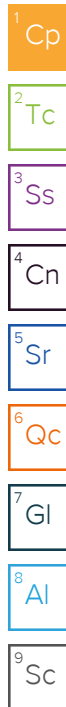


TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	6
Sr: Sample Results	7
HB01605-01 L1705233-01	7
HB01605-02 L1705233-02	8
HB01605-03 L1705233-03	9
HB01605-04 L1705233-04	10
HB01605-05 L1705233-05	11
HB01605-06 L1705233-06	12
HB01605-07 L1705233-07	13
HB01605-08 L1705233-08	14
HB01605-09 L1705233-09	15
HB01605-10 L1705233-10	16
HB01605-11 L1705233-11	17
HB01605-12 L1705233-12	18
HB01605-13 L1705233-13	19
HB01605-14 L1705233-14	20
HB01605-15 L1705233-15	21
HB01605-16 L1705233-16	22
HB01605-17 L1705233-17	23
Qc: Quality Control Summary	24
Radiochemistry by Method 904/9320	24
Radiochemistry by Method SM7500Ra B M	25
Gl: Glossary of Terms	27
Al: Accreditations & Locations	28
Sc: Sample Chain of Custody	29

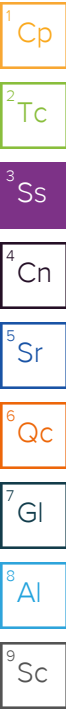


SAMPLE SUMMARY

HB01605-01 L1705233-01 Non-Potable Water

Collected by
Collected date/time
02/08/24 15:31
Received date/time
02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2227301	1	02/19/24 11:45	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2227301	1	02/19/24 11:45	02/22/24 14:33	ZRG	Mt. Juliet, TN



HB01605-02 L1705233-02 Non-Potable Water

Collected by
Collected date/time
02/08/24 15:44
Received date/time
02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2227301	1	02/19/24 11:45	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2227301	1	02/19/24 11:45	02/22/24 14:33	ZRG	Mt. Juliet, TN

HB01605-03 L1705233-03 Non-Potable Water

Collected by
Collected date/time
02/08/24 11:12
Received date/time
02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2227301	1	02/19/24 11:45	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2227301	1	02/19/24 11:45	02/22/24 14:33	ZRG	Mt. Juliet, TN

HB01605-04 L1705233-04 Non-Potable Water

Collected by
Collected date/time
02/08/24 11:12
Received date/time
02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2227301	1	02/19/24 11:45	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2227301	1	02/19/24 11:45	02/22/24 14:33	ZRG	Mt. Juliet, TN

HB01605-05 L1705233-05 Non-Potable Water

Collected by
Collected date/time
02/08/24 14:35
Received date/time
02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2227301	1	02/19/24 11:45	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2227301	1	02/19/24 11:45	02/22/24 14:33	ZRG	Mt. Juliet, TN

HB01605-06 L1705233-06 Non-Potable Water

Collected by
Collected date/time
02/08/24 13:15
Received date/time
02/13/24 09:00

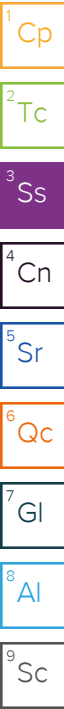
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2227301	1	02/19/24 11:45	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2227301	1	02/19/24 11:45	02/22/24 14:33	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

HB01605-07 L1705233-07 Non-Potable Water

Collected by
Collected date/time
02/08/24 15:06
Received date/time
02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2227301	1	02/19/24 11:45	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2227301	1	02/19/24 11:45	02/22/24 14:33	ZRG	Mt. Juliet, TN



HB01605-08 L1705233-08 Non-Potable Water

Collected by
Collected date/time
02/08/24 13:28
Received date/time
02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2227301	1	02/19/24 11:45	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2227301	1	02/19/24 11:45	02/22/24 14:33	ZRG	Mt. Juliet, TN

HB01605-09 L1705233-09 Non-Potable Water

Collected by
Collected date/time
02/08/24 12:38
Received date/time
02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2227301	1	02/19/24 11:45	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2227301	1	02/19/24 11:45	02/22/24 14:33	ZRG	Mt. Juliet, TN

HB01605-10 L1705233-10 Non-Potable Water

Collected by
Collected date/time
02/08/24 10:14
Received date/time
02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2227301	1	02/19/24 11:45	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2227301	1	02/19/24 11:45	02/22/24 14:33	ZRG	Mt. Juliet, TN

HB01605-11 L1705233-11 Non-Potable Water

Collected by
Collected date/time
02/08/24 11:26
Received date/time
02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2227301	1	02/19/24 11:45	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2227301	1	02/19/24 11:45	02/22/24 14:33	ZRG	Mt. Juliet, TN

HB01605-12 L1705233-12 Non-Potable Water

Collected by
Collected date/time
02/08/24 14:07
Received date/time
02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2229469	1	02/21/24 11:40	03/01/24 21:53	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2229469	1	02/21/24 11:40	02/22/24 17:07	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

HB01605-13 L1705233-13 Non-Potable Water

Collected by

Collected date/time

Received date/time

02/08/24 14:07

02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2229469	1	02/21/24 11:40	03/01/24 21:53	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2229469	1	02/21/24 11:40	02/22/24 17:07	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

HB01605-14 L1705233-14 Non-Potable Water

Collected by

Collected date/time

Received date/time

02/08/24 12:05

02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2229469	1	02/21/24 11:40	03/01/24 21:53	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2229469	1	02/21/24 11:40	02/22/24 17:07	ZRG	Mt. Juliet, TN

HB01605-15 L1705233-15 Non-Potable Water

Collected by

Collected date/time

Received date/time

02/08/24 10:35

02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2229469	1	02/21/24 11:40	03/01/24 21:53	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2229469	1	02/21/24 11:40	02/22/24 17:07	ZRG	Mt. Juliet, TN

HB01605-16 L1705233-16 Non-Potable Water

Collected by

Collected date/time

Received date/time

02/08/24 15:30

02/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2229469	1	02/21/24 11:40	03/01/24 21:53	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2229469	1	02/21/24 11:40	02/22/24 17:07	ZRG	Mt. Juliet, TN

HB01605-17 L1705233-17 Non-Potable Water

Collected by

Collected date/time

Received date/time

02/08/24 15:45

02/13/24 09:00

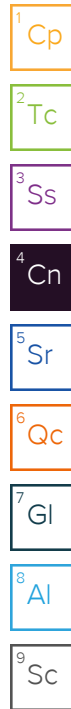
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2229435	1	02/19/24 17:47	03/01/24 21:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2229469	1	02/21/24 11:40	03/01/24 21:53	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2229469	1	02/21/24 11:40	02/22/24 17:07	ZRG	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.678	J	0.654	2.59	1.19	0.622	03/01/2024 21:53	WG2229435
(T) Barium	115					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	98.7					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.58		0.754	1.22	03/01/2024 21:53	WG2227301

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.899		0.375	0.171	0.265	0.188	02/22/2024 14:33	WG2227301
(T) Barium-133	89.2					30.0-143	02/22/2024 14:33	WG2227301

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.347	J	0.248	1.47	0.452	0.237	03/01/2024 21:53	WG2229435
(T) Barium	122					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	101					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.487	J	0.344	0.580	03/01/2024 21:53	WG2227301

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.141	J	0.238	0.0888	0.364	0.244	02/22/2024 14:33	WG2227301
(T) Barium-133	84.0					30.0-143	02/22/2024 14:33	WG2227301

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.333	J	0.236	1.45	0.431	0.226	03/01/2024 21:53	WG2229435
(T) Barium	119					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	102					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.444	J	0.333	0.570	03/01/2024 21:53	WG2227301

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.111	U	0.235	0.0877	0.373	0.246	02/22/2024 14:33	WG2227301
(T) Barium-133	86.0					30.0-143	02/22/2024 14:33	WG2227301

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.258	J	0.262	1.86	0.482	0.253	03/01/2024 21:53	WG2229435
(T) Barium	120					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	86.5					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.395	J	0.350	0.599	03/01/2024 21:53	WG2227301

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.137	J	0.232	0.0848	0.355	0.238	02/22/2024 14:33	WG2227301
(T) Barium-133	82.2					30.0-143	02/22/2024 14:33	WG2227301

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.392	U	0.513	3.19	0.952	0.503	03/01/2024 21:53	WG2229435
(T) Barium	106					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	87.9					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.861	J	0.603	1.01	03/01/2024 21:53	WG2227301

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.469		0.316	0.134	0.328	0.227	02/22/2024 14:33	WG2227301
(T) Barium-133	86.7					30.0-143	02/22/2024 14:33	WG2227301

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.19		0.371	1.12	0.656	0.342	03/01/2024 21:53	WG2229435
(T) Barium	233	C1				30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	99.3					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.54		0.476	0.755	03/01/2024 21:53	WG2227301

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.349	J	0.298	0.121	0.373	0.238	02/22/2024 14:33	WG2227301
(T) Barium-133	88.0					30.0-143	02/22/2024 14:33	WG2227301

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.531	J	0.500	2.57	0.919	0.484	03/01/2024 21:53	WG2229435
(T) Barium	121					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	98.5					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.08		0.715	0.969	03/01/2024 21:53	WG2227301

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.55		0.511	0.223	0.306	0.214	02/22/2024 14:33	WG2227301
(T) Barium-133	83.9					30.0-143	02/22/2024 14:33	WG2227301

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.71		0.598	1.59	1.06	0.557	03/01/2024 21:53	WG2229435
(T) Barium	130					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	95.3					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.82		0.732	1.09	03/01/2024 21:53	WG2227301

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.11		0.423	0.183	0.261	0.190	02/22/2024 14:33	WG2227301
(T) Barium-133	82.9					30.0-143	02/22/2024 14:33	WG2227301

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.928		0.403	1.45	0.723	0.378	03/01/2024 21:53	WG2229435
(T) Barium	123					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	90.1					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.74		0.573	0.803	03/01/2024 21:53	WG2227301

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.810		0.407	0.174	0.349	0.241	02/22/2024 14:33	WG2227301
(T) Barium-133	85.7					30.0-143	02/22/2024 14:33	WG2227301

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.96		0.386	0.742	0.629	0.330	03/01/2024 21:53	WG2229435
(T) Barium	128					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	95.1					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	5.34		0.763	0.755	03/01/2024 21:53	WG2227301

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	2.38		0.658	0.277	0.418	0.272	02/22/2024 14:33	WG2227301
(T) Barium-133	81.6					30.0-143	02/22/2024 14:33	WG2227301

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.522	J	0.348	1.68	0.632	0.331	03/01/2024 21:53	WG2229435
(T) Barium	117					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	103					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.522	J	0.366	0.686	03/01/2024 21:53	WG2227301

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.000	U	0.112	0.0393	0.268	0.195	02/22/2024 14:33	WG2227301
(T) Barium-133	88.5					30.0-143	02/22/2024 14:33	WG2227301

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.69		0.230	0.629	0.372	0.196	03/01/2024 21:53	WG2229435
(T) Barium	113					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	102					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.46		0.558	0.421	03/01/2024 21:53	WG2229469

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.77		0.508	0.240	0.197	0.154	02/22/2024 17:07	WG2229469
(T) Barium-133	89.6					30.0-143	02/22/2024 17:07	WG2229469

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.60		0.276	0.744	0.465	0.244	03/01/2024 21:53	WG2229435
(T) Barium	121					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	91.0					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.76		0.606	0.492	03/01/2024 21:53	WG2229469

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	2.15		0.539	0.279	0.161	0.133	02/22/2024 17:07	WG2229469
(T) Barium-133	96.1					30.0-143	02/22/2024 17:07	WG2229469

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.17		0.257	0.832	0.442	0.232	03/01/2024 21:53	WG2229435
(T) Barium	124					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	92.1					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.26		0.458	0.469	03/01/2024 21:53	WG2229469

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.09		0.379	0.188	0.157	0.130	02/22/2024 17:07	WG2229469
(T) Barium-133	95.6					30.0-143	02/22/2024 17:07	WG2229469

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.928		0.308	1.23	0.544	0.288	03/01/2024 21:53	WG2229435
(T) Barium	141					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	92.1					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.17		0.361	0.576	03/01/2024 21:53	WG2229469

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.243		0.189	0.0923	0.190	0.145	02/22/2024 17:07	WG2229469
(T) Barium-133	98.2					30.0-143	02/22/2024 17:07	WG2229469

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.0234	U	0.205	5.35	0.386	0.204	03/01/2024 21:53	WG2229435
(T) Barium	133					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	92.5					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.206	J	0.266	0.424	03/01/2024 21:53	WG2229469

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.182		0.170	0.0776	0.175	0.145	02/22/2024 17:07	WG2229469
(T) Barium-133	90.8					30.0-143	02/22/2024 17:07	WG2229469

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.584		0.280	1.46	0.506	0.268	03/01/2024 21:53	WG2229435
(T) Barium	131					30.0-143	03/01/2024 21:53	WG2229435
(T) Yttrium	94.3					30.0-136	03/01/2024 21:53	WG2229435

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.680		0.305	0.530	03/01/2024 21:53	WG2229469

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0959	J	0.120	0.0598	0.158	0.130	02/22/2024 17:07	WG2229469
(T) Barium-133	101					30.0-143	02/22/2024 17:07	WG2229469

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4040726-1 03/01/24 21:53

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.172	<u>U</u>	0.184	0.170	
(T) Barium	126		126		
(T) Yttrium	96.8		96.8		

L1705233-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1705233-11 03/01/24 21:53 • (DUP) R4040726-5 03/01/24 21:53

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.522	0.348	0.632	0.331	0.879	0.388	0.696		50.9	0.684		20	3
(T) Barium	117				125	125							
(T) Yttrium	103				102	102							

Laboratory Control Sample (LCS)

(LCS) R4040726-2 03/01/24 21:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.82	96.4	80.0-120	
(T) Barium			136		
(T) Yttrium			101		

L1705233-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1705233-17 03/01/24 21:53 • (MS) R4040726-3 03/01/24 21:53 • (MSD) R4040726-4 03/01/24 21:53

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.584	16.3	15.6	94.2	90.0	1	70.0-130			4.38		20
(T) Barium		131			124	123							
(T) Yttrium		94.3			96.8	94.2							

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4038342-1 02/22/24 14:33

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.0133	<u>U</u>	0.0237	0.0768	0.0551
(T) Barium-133	80.8		80.8		

L1705233-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1705233-11 02/22/24 14:33 • (DUP) R4038342-5 02/22/24 14:33

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.000	0.112	0.268	0.195	0.0624	0.187	0.337	0.236	200	0.286	<u>U</u>	20	3
(T) Barium-133	88.5				74.0	74.0							

Laboratory Control Sample (LCS)

(LCS) R4038342-2 02/22/24 14:33

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	4.80	95.9	80.0-120	
(T) Barium-133			75.0		

L1705231-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1705231-01 02/22/24 14:33 • (MS) R4038342-3 02/22/24 14:33 • (MSD) R4038342-4 02/22/24 14:33

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.00760	19.3	19.9	96.4	99.4	1	75.0-125			3.06		20
(T) Barium-133		77.3			62.7	67.3							

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4041068-1 02/22/24 17:07

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0311	⬇	0.0390	0.0512	0.0423
(T) Barium-133	87.9		87.9		

L1705230-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1705230-01 02/22/24 17:07 • (DUP) R4041068-5 02/22/24 17:07

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.244	0.188	0.165	0.136	0.394	0.240	0.168	0.139	47.3	0.495		20	3
(T) Barium-133	93.2				93.2	93.2							

Laboratory Control Sample (LCS)

(LCS) R4041068-2 02/22/24 17:07

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	4.93	98.6	80.0-120	
(T) Barium-133			91.7		

L1705249-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1705249-03 02/22/24 17:07 • (MS) R4041068-3 02/22/24 17:07 • (MSD) R4041068-4 02/22/24 17:07

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.247	20.0	22.3	98.6	110	1	75.0-125			10.9		20
(T) Barium-133		90.8			96.2	90.1							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Guide to Reading and Understanding Your Laboratory Report

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

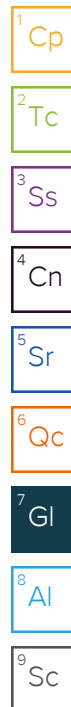
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

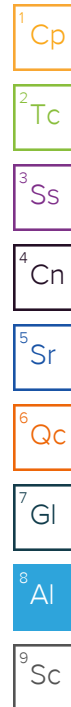
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

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

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

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



SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

HB01605

D047

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Althorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

1705233

Sample: HB01605-01
Name: AP05S

Sampled: 02/08/24 15:31
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 15:31

need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 15:31

need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample: HB01605-02
Name: AP07S

Sampled: 02/08/24 15:44
Matrix: Ground Water
Preservative: HNO3, pH <2

-02

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 15:44

need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 15:44

need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample: HB01605-03
Name: AW-01

Sampled: 02/08/24 11:12
Matrix: Ground Water
Preservative: HNO3, pH <2

-03

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 11:12

need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 11:12

need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

HB01605

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

4705233

Sample: HB01605-04
Name: AW-01 DUP

Sampled: 02/08/24 11:12
Matrix: Ground Water
Preservative: HNO3, pH <2

-04

Analysis	Due	Expires	Comments
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01-Radium 226/228 combined	02/21/24 16:00	08/06/24 11:12	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
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01-Radium 226/228 combined	02/21/24 16:00	08/06/24 11:12	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
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Sample: HB01605-05
Name: AW-05

Sampled: 02/08/24 14:35
Matrix: Ground Water
Preservative: HNO3, pH <2

-05

Analysis	Due	Expires	Comments
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01-Radium 226/228 combined	02/21/24 16:00	08/06/24 14:35	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
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01-Radium 226/228 combined	02/21/24 16:00	08/06/24 14:35	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
----------------------------	----------------	----------------	---

Sample: HB01605-06
Name: AW-08

Sampled: 02/08/24 13:15
Matrix: Ground Water
Preservative: HNO3, pH <2

-06

Analysis	Due	Expires	Comments
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01-Radium 226/228 combined	02/21/24 16:00	08/06/24 13:15	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
----------------------------	----------------	----------------	---

01-Radium 226/228 combined	02/21/24 16:00	08/06/24 13:15	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
----------------------------	----------------	----------------	---

SUBCONTRACT ORDER Transfer Chain of Custody

Pace Analytical Services, LLC

HB01605

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

47705233

Sample: HB01605-07
Name: AW-10

Sampled: 02/08/24 15:06
Matrix: Ground Water
Preservative: HNO3, pH <2

-07

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 15:06

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 15:06

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

Sample: HB01605-08

Name: AW-11

Sampled: 02/08/24 13:28
Matrix: Ground Water
Preservative: HNO3, pH <2

-08

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 13:28

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 13:28

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

Sample: HB01605-09

Name: AW-14

Sampled: 02/08/24 12:38
Matrix: Ground Water
Preservative: HNO3, pH <2

-09

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 12:38

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 12:38

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

SUBCONTRACT ORDER Transfer Chain of Custody

Pace Analytical Services, LLC

HB01605

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Alton Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

L1705233

Sample: HB01605-10
Name: AW-15

Sampled: 02/08/24 10:14
Matrix: Ground Water
Preservative: HNO3, pH <2

-10

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 10:14

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 10:14

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

Sample: HB01605-11
Name: AW-15S

Sampled: 02/08/24 11:26
Matrix: Ground Water
Preservative: HNO3, pH <2

-11

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 11:26

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 11:26

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

Sample: HB01605-12
Name: AW-16

Sampled: 02/08/24 14:07
Matrix: Ground Water
Preservative: HNO3, pH <2

-12

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 14:07

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 14:07

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

SUBCONTRACT ORDER Transfer Chain of Custody

Pace Analytical Services, LLC

HB01605

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Alkhorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

LT705233

Sample: HB01605-13
Name: AW-16 DUP

Sampled: 02/08/24 14:07
Matrix: Ground Water
Preservative: HNO3, pH <2

-13

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 14:07

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 14:07

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

Sample: HB01605-14
Name: AW-17

Sampled: 02/08/24 12:05
Matrix: Ground Water
Preservative: HNO3, pH <2

-14

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 12:05

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 12:05

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

Sample: HB01605-15
Name: AW-19

Sampled: 02/08/24 10:35
Matrix: Ground Water
Preservative: HNO3, pH <2

-15

Analysis

Due

Expires

Comments

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 10:35

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

01-Radium 226/228 combined

02/21/24 16:00

08/06/24 10:35

need Ra-226, Ra-228, total combined and
QC. 10 Day TAT

SUBCONTRACT ORDER Transfer Chain of Custody

Pace Analytical Services, LLC

HB01605

SENDING LABORATORY

PDC Laboratories, Inc.
2231 W Altkorfer Dr
Peoria, IL 61615
(800) 752-6651

RECEIVING LABORATORY

Pace Analytical - Mt Juliet, Tn
12065 Lebanon Rd
Mt Juliet, TN 37122
(615) 758-5858

U1705233

Sample: HB01605-16
Name: EB-01

Sampled: 02/08/24 15:30
Matrix: DI Water
Preservative: HNO3, pH <2

-16

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/21/24 16:00	08/06/24 15:30	need Ra-226, Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	02/21/24 16:00	08/06/24 15:30	need Ra-226, Ra-228, total combined and QC. 10 Day TAT

Sample: HB01605-17
Name: FIELD BLANK

Sampled: 02/08/24 15:45
Matrix: DI Water
Preservative: HNO3, pH <2

-17

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	02/21/24 16:00	08/06/24 15:45	need Ra-226, Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	02/21/24 16:00	08/06/24 15:45	need Ra-226, Ra-228, total combined and QC. 10 Day TAT

Sample Receipt Checklist
If Applicable
COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles active intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
RA screen <0.5 mR/hr: ☒ Y ☐ N
VOR Zero HeadSpace: ☒ Y ☐ N
Etest. Correct/Check: ☒ Y ☐ N

17,540-17.5 TDA8

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 2/9/24 Total # of Containers: 17 Sample Origin (State): IL PO #:
Turn-Around Time Requested ☐ NORMAL ☐ RUSH Date Results Needed:
Date/Time Received By: Date/Time

Relinquished By: Date/Time Received By: Date/Time
Sample Temperature Upon Receipt:
Sample(s) Received on Ice: Y or N
Proper Bottles Received In Good Condition: Y or N
Bottles Filled with Adequate Volume: Y or N
Samples Received Within Hold Time: Y or N
Date/Time Taken From Sample Bottle: Y or N

NE 2/14/24

RADS-HB01314

1054

Section C

Invoice Information:

Page: of

ITEM #	Section D Required Client Information	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		(see valid codes to left) MATRIX CODE 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.																	
			MATRIX	CODE																																								
			DRINKING WATER	DW																																								
			WATER	WT																																								
			WASTE WATER	WW																																								
			PRODUCT	P																																								
SOIL/SOLID	SL																																											
OIL	OL																																											
WIPE	WP																																											
AIR	AR																																											
OTHER	OT																																											
TISSUE	TS																																											
1		AW-06	WT G	2/7/24	1419	4	X	X																																				
2		AW-06 Dup	WT G	2/7/24	1419	4	X	X																																				
4		AW-09	WT G	2/7/24	1217	4	X	X																																				
5		Aw-18	WT G	2/7/24	1633	4	X	X																																				
6		AW-21	WT G	2/7/24	1519	4	X	X																																				
7		xpwota	WT G	2/7/24	1132	3	X	X																																				
8		xpwos	WT G	2/7/24	1227	3	X	X																																				
9		xpwos	WT G	2/7/24	1352	3	X	X																																				
10																																												
11																																												
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ADDITIONAL COMMENTS RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS

EDW-24Q1-Rev 0 J Bohannan 2/7/24 16:25 [Signature] 2/7/24 16:25 ✓✓

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed
(MM/DD/YY):

02/07/24

Temp in °C

Received on
Ice (Y/N)Custody
Sealed
Cooler (Y/N)

Samples	Intact (Y/N)
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Concise

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company:	Vistra Corp-Edwards
Address:	7800 Cilco Lane
	Peoria, IL 61607
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B
Required Project Information:

Report To:	Brian Voelker
Copy To:	Sam Davies-samantha.davies@vistracorp.com
	Mark Davis-Mark.Davis1@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C
Invoice Information:

Attention:	Mark Davis
Company Name:	Vistra Corp-Edwards
Address:	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

Page: of

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location
STATE: IL

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	EDW-257-301	EDW-845-301	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					
1	APOSS		WT G		2/8/24	1531		4	X	X											
2	APOTS		WT G		2/8/24	1544		4	X	X											
4	AW01		WT G		2/8/24	1112		4	X	X											
5	AW01 Dup		WT G		2/8/24	1112		4	X	X											
6	AW05		WT G		2/8/24	1435		4	X	X											
7	AW08		WT G		2/8/24	1315		4	X	X											
8	AW10		WT G		2/8/24	1506		4	X	X											
9	AW11		WT G		2/8/24	1328		4	X	X											
10	AW14		WT G		2/8/24	1238		4	X	X											
11	AW15		WT G		2/8/24	1014		4	X	X											
12	AW15s		WT G		2/8/24	1126		4	X	X											
13	AW16		WT G		2/8/24	1407		4	X	X											
14	AW16 Dup		WT G		2/8/24	1407		4	X	X											
15	AW17		WT G		2/8/24	1205		4	X	X											
16	AW19		WT G		2/8/24	1035		4	X	X											
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS								
EDW-24Q1-Rev 0						2/8/24	1636				2/8/24	1636	9.4	Y	Y	Y					

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed
(MM/DD/YY):

02/08/24

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

BDO1601

BDO1605-RADs

Page: of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: _____ of _____	
Company: Vistra Corp-Edwards		Report To: Brian Voelker		Attention: Mark Davis		REGULATORY AGENCY	
Address: 7800 Cilco Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp-Edwards			
Peoria, IL 61607		Mark Davis-Mark.Davis1@vistracorp.com		Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES GROUND WATER DRINKING WATER	
Phone: (217) 753-8911		Fax:		Project Manager:		UST RCRA OTHER	
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		Site Location STATE: IL	

[illegible]

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>AL, JB, AW, AM, LR</i>					
SIGNATURE of SAMPLER:	 DATE Signed (MM/DD/YY): <i>02/08/24</i>					

**ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 1, 2024**

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AP07S	PMP	E004	Antimony, total	mg/L	02/10/21 - 02/08/24	13	100	All ND - Last	0.003	0.003
AP07S	PMP	E004	Arsenic, total	mg/L	02/10/21 - 02/08/24	13	85	CI around median	0.001	0.0300
AP07S	PMP	E004	Barium, total	mg/L	02/10/21 - 02/08/24	13	0	CI around mean	0.0708	2.07
AP07S	PMP	E004	Beryllium, total	mg/L	02/10/21 - 02/08/24	13	100	All ND - Last	0.001	0.00190
AP07S	PMP	E004	Boron, total	mg/L	02/10/21 - 02/08/24	13	0	CB around linear reg	6.93	0.535
AP07S	PMP	E004	Cadmium, total	mg/L	02/10/21 - 02/08/24	13	85	CI around median	0.001	0.00100
AP07S	PMP	E004	Chloride, total	mg/L	02/10/21 - 02/08/24	13	0	CI around geomean	76.4	56.0
AP07S	PMP	E004	Chromium, total	mg/L	02/10/21 - 02/08/24	13	69	CI around median	0.004	0.0480
AP07S	PMP	E004	Cobalt, total	mg/L	02/10/21 - 02/08/24	13	0	CI around mean	0.00237	0.0280
AP07S	PMP	E004	Fluoride, total	mg/L	02/10/21 - 02/08/24	13	69	CI around median	0.25	0.396
AP07S	PMP	E004	Lead, total	mg/L	02/10/21 - 02/08/24	13	62	CI around median	0.001	0.0330
AP07S	PMP	E004	Lithium, total	mg/L	02/10/21 - 02/08/24	13	100	All ND - Last	0.02	0.0710
AP07S	PMP	E004	Mercury, total	mg/L	02/10/21 - 02/08/24	13	92	CI around median	0.0002	0.0002
AP07S	PMP	E004	Molybdenum, total	mg/L	02/10/21 - 02/08/24	13	46	CI around median	0.001	0.00620
AP07S	PMP	E004	pH (field)	SU	02/10/21 - 02/08/24	13	0	CI around mean	6.6/7.0	6.3/7.1
AP07S	PMP	E004	Radium 226 + Radium 228, total	pCi/L	02/10/21 - 02/08/24	13	0	CI around mean	0.569	9.60
AP07S	PMP	E004	Selenium, total	mg/L	02/10/21 - 02/08/24	13	100	All ND - Last	0.001	0.00320
AP07S	PMP	E004	Sulfate, total	mg/L	02/10/21 - 02/08/24	13	0	CI around mean	211	6.48
AP07S	PMP	E004	Thallium, total	mg/L	02/10/21 - 02/08/24	13	100	All ND - Last	0.001	0.001
AP07S	PMP	E004	Total Dissolved Solids	mg/L	02/10/21 - 02/08/24	13	0	CI around mean	791	1,050
AW-01	PMP	E004	Antimony, total	mg/L	11/18/22 - 02/08/24	8	100	All ND - Last	0.003	0.003
AW-01	PMP	E004	Arsenic, total	mg/L	11/18/22 - 02/08/24	8	0	CI around mean	0.00215	0.0300
AW-01	PMP	E004	Barium, total	mg/L	11/18/22 - 02/08/24	8	0	CI around mean	0.101	2.07
AW-01	PMP	E004	Beryllium, total	mg/L	11/18/22 - 02/08/24	8	100	All ND - Last	0.001	0.00190
AW-01	PMP	E004	Boron, total	mg/L	11/18/22 - 02/08/24	8	0	CI around median	0.072	0.535
AW-01	PMP	E004	Cadmium, total	mg/L	11/18/22 - 02/08/24	8	100	All ND - Last	0.001	0.00100
AW-01	PMP	E004	Chloride, total	mg/L	11/18/22 - 02/08/24	8	0	CI around median	10	56.0

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-01	PMP	E004	Chromium, total	mg/L	11/18/22 - 02/08/24	8	75	CI around median	0.004	0.0480
AW-01	PMP	E004	Cobalt, total	mg/L	11/18/22 - 02/08/24	8	12	CI around mean	0.00224	0.0280
AW-01	PMP	E004	Fluoride, total	mg/L	11/18/22 - 02/08/24	8	50	CI around mean	0.247	0.396
AW-01	PMP	E004	Lead, total	mg/L	11/18/22 - 02/08/24	8	75	CI around median	0.001	0.0330
AW-01	PMP	E004	Lithium, total	mg/L	11/18/22 - 02/08/24	8	100	All ND - Last	0.02	0.0710
AW-01	PMP	E004	Mercury, total	mg/L	11/18/22 - 02/08/24	8	100	All ND - Last	0.0002	0.0002
AW-01	PMP	E004	Molybdenum, total	mg/L	11/18/22 - 02/08/24	8	0	CI around mean	0.00263	0.00620
AW-01	PMP	E004	pH (field)	SU	11/18/22 - 02/08/24	8	0	CI around mean	6.6/7.1	6.3/7.1
AW-01	PMP	E004	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 02/08/24	8	0	CI around mean	-0.393	9.60
AW-01	PMP	E004	Selenium, total	mg/L	11/18/22 - 02/08/24	8	88	CI around median	0.001	0.00320
AW-01	PMP	E004	Sulfate, total	mg/L	11/18/22 - 02/08/24	8	0	CI around median	41	6.48
AW-01	PMP	E004	Thallium, total	mg/L	11/18/22 - 02/08/24	8	100	All ND - Last	0.001	0.001
AW-01	PMP	E004	Total Dissolved Solids	mg/L	11/18/22 - 02/08/24	8	0	CI around geomean	730	1,050
AW-05	UA	E004	Antimony, total	mg/L	11/09/15 - 02/08/24	17	94	Most recent sample	0.003	0.003
AW-05	UA	E004	Arsenic, total	mg/L	11/09/15 - 02/08/24	17	0	CI around geomean	0.00392	0.0300
AW-05	UA	E004	Barium, total	mg/L	11/09/15 - 02/08/24	17	0	CI around geomean	0.14	2.07
AW-05	UA	E004	Beryllium, total	mg/L	11/09/15 - 02/08/24	16	88	CI around median	0.001	0.00190
AW-05	UA	E004	Boron, total	mg/L	11/09/15 - 02/08/24	18	0	CB around linear reg	3.32	0.535
AW-05	UA	E004	Cadmium, total	mg/L	11/09/15 - 02/08/24	17	88	CI around median	0.001	0.00100
AW-05	UA	E004	Chloride, total	mg/L	11/09/15 - 02/08/24	18	0	CB around linear reg	-133	56.0
AW-05	UA	E004	Chromium, total	mg/L	11/09/15 - 02/08/24	17	29	CI around geomean	0.00579	0.0480
AW-05	UA	E004	Cobalt, total	mg/L	11/09/15 - 02/08/24	17	18	CI around geomean	0.00358	0.0280
AW-05	UA	E004	Fluoride, total	mg/L	11/09/15 - 02/08/24	18	56	CI around median	0.25	0.396
AW-05	UA	E004	Lead, total	mg/L	11/09/15 - 02/08/24	16	31	CI around geomean	0.00179	0.0330
AW-05	UA	E004	Lithium, total	mg/L	11/09/15 - 02/08/24	17	29	CI around median	0.02	0.0710
AW-05	UA	E004	Mercury, total	mg/L	11/09/15 - 02/08/24	17	94	CI around median	0.0002	0.0002
AW-05	UA	E004	Molybdenum, total	mg/L	11/09/15 - 02/08/24	17	0	CI around mean	0.00208	0.00620

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-05	UA	E004	pH (field)	SU	11/09/15 - 02/08/24	18	0	CI around mean	6.9/7.1	6.3/7.1
AW-05	UA	E004	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 02/08/24	17	0	CI around mean	0.664	9.60
AW-05	UA	E004	Selenium, total	mg/L	11/09/15 - 02/08/24	17	53	CI around median	0.001	0.00320
AW-05	UA	E004	Sulfate, total	mg/L	11/09/15 - 02/08/24	18	0	CI around median	280	6.48
AW-05	UA	E004	Thallium, total	mg/L	11/09/15 - 02/08/24	16	100	All ND - Last	0.001	0.001
AW-05	UA	E004	Total Dissolved Solids	mg/L	11/09/15 - 02/08/24	18	0	CI around geomean	1,020	1,050
AW-06	UA	E004	Antimony, total	mg/L	11/10/15 - 02/07/24	18	100	All ND - Last	0.003	0.003
AW-06	UA	E004	Arsenic, total	mg/L	11/10/15 - 02/07/24	23	0	CI around geomean	0.00315	0.0300
AW-06	UA	E004	Barium, total	mg/L	11/10/15 - 02/07/24	23	0	CI around median	0.18	2.07
AW-06	UA	E004	Beryllium, total	mg/L	11/10/15 - 02/07/24	23	87	CI around median	0.001	0.00190
AW-06	UA	E004	Boron, total	mg/L	11/10/15 - 02/07/24	24	0	CB around linear reg	0.0566	0.535
AW-06	UA	E004	Cadmium, total	mg/L	11/10/15 - 02/07/24	18	100	All ND - Last	0.001	0.00100
AW-06	UA	E004	Chloride, total	mg/L	11/10/15 - 02/07/24	24	0	CB around T-S line	13.8	56.0
AW-06	UA	E004	Chromium, total	mg/L	11/10/15 - 02/07/24	23	52	CI around median	0.004	0.0480
AW-06	UA	E004	Cobalt, total	mg/L	11/10/15 - 02/07/24	23	56	CI around median	0.002	0.0280
AW-06	UA	E004	Fluoride, total	mg/L	11/10/15 - 02/07/24	24	8	CB around T-S line	0.188	0.396
AW-06	UA	E004	Lead, total	mg/L	11/10/15 - 02/07/24	23	35	CI around median	0.001	0.0330
AW-06	UA	E004	Lithium, total	mg/L	11/10/15 - 02/07/24	23	48	CI around geomean	0.0128	0.0710
AW-06	UA	E004	Mercury, total	mg/L	11/10/15 - 02/07/24	18	94	CI around median	0.0002	0.0002
AW-06	UA	E004	Molybdenum, total	mg/L	11/10/15 - 02/07/24	23	0	CI around mean	0.00487	0.00620
AW-06	UA	E004	pH (field)	SU	11/10/15 - 02/07/24	24	0	CI around median	7.1/7.3	6.3/7.1
AW-06	UA	E004	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 02/07/24	23	0	CI around mean	0.708	9.60
AW-06	UA	E004	Selenium, total	mg/L	11/10/15 - 02/07/24	23	74	CI around median	0.001	0.00320
AW-06	UA	E004	Sulfate, total	mg/L	11/10/15 - 02/07/24	24	0	CB around linear reg	17.5	6.48
AW-06	UA	E004	Thallium, total	mg/L	11/10/15 - 02/07/24	18	100	All ND - Last	0.001	0.001
AW-06	UA	E004	Total Dissolved Solids	mg/L	11/10/15 - 02/07/24	24	0	CI around mean	512	1,050
AW-09	UA	E004	Antimony, total	mg/L	11/10/15 - 02/07/24	18	100	All ND - Last	0.003	0.003

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-09	UA	E004	Arsenic, total	mg/L	11/10/15 - 02/07/24	23	13	CI around mean	0.0113	0.0300
AW-09	UA	E004	Barium, total	mg/L	11/10/15 - 02/07/24	23	0	CI around geomean	0.29	2.07
AW-09	UA	E004	Beryllium, total	mg/L	11/10/15 - 02/07/24	23	83	CB around T-S line	-0.000357	0.00190
AW-09	UA	E004	Boron, total	mg/L	11/10/15 - 02/07/24	24	0	CB around linear reg	-0.102	0.535
AW-09	UA	E004	Cadmium, total	mg/L	11/10/15 - 02/07/24	18	89	CI around median	0.001	0.00100
AW-09	UA	E004	Chloride, total	mg/L	11/10/15 - 02/07/24	24	0	CI around median	27	56.0
AW-09	UA	E004	Chromium, total	mg/L	11/10/15 - 02/07/24	23	56	CB around T-S line	-0.0511	0.0480
AW-09	UA	E004	Cobalt, total	mg/L	11/10/15 - 02/07/24	23	4	CB around T-S line	-0.0271	0.0280
AW-09	UA	E004	Fluoride, total	mg/L	11/10/15 - 02/07/24	24	62	CB around T-S line	0.187	0.396
AW-09	UA	E004	Lead, total	mg/L	11/10/15 - 02/07/24	23	44	CI around median	0.001	0.0330
AW-09	UA	E004	Lithium, total	mg/L	11/10/15 - 02/07/24	23	35	CB around T-S line	-0.0509	0.0710
AW-09	UA	E004	Mercury, total	mg/L	11/10/15 - 02/07/24	18	94	CI around median	0.0002	0.0002
AW-09	UA	E004	Molybdenum, total	mg/L	11/10/15 - 02/07/24	23	0	CI around mean	0.0143	0.00620
AW-09	UA	E004	pH (field)	SU	11/10/15 - 02/07/24	24	0	CB around linear reg	6.9/7.2	6.3/7.1
AW-09	UA	E004	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 02/07/24	23	0	CI around median	0.729	9.60
AW-09	UA	E004	Selenium, total	mg/L	11/10/15 - 02/07/24	23	65	CB around T-S line	-0.00204	0.00320
AW-09	UA	E004	Sulfate, total	mg/L	11/10/15 - 02/07/24	24	54	CB around T-S line	-22.2	6.48
AW-09	UA	E004	Thallium, total	mg/L	11/10/15 - 02/07/24	18	94	CI around median	0.001	0.001
AW-09	UA	E004	Total Dissolved Solids	mg/L	11/10/15 - 02/07/24	24	0	CB around T-S line	756	1,050
AW-10	UA	E004	Antimony, total	mg/L	11/09/15 - 02/08/24	19	100	All ND - Last	0.003	0.003
AW-10	UA	E004	Arsenic, total	mg/L	11/09/15 - 02/08/24	24	0	CI around median	0.0099	0.0300
AW-10	UA	E004	Barium, total	mg/L	11/09/15 - 02/08/24	24	0	CI around median	0.98	2.07
AW-10	UA	E004	Beryllium, total	mg/L	11/09/15 - 02/08/24	24	75	CI around median	0.001	0.00190
AW-10	UA	E004	Boron, total	mg/L	11/09/15 - 02/08/24	25	0	CI around mean	0.463	0.535
AW-10	UA	E004	Cadmium, total	mg/L	11/09/15 - 02/08/24	19	95	CI around median	0.001	0.00100
AW-10	UA	E004	Chloride, total	mg/L	11/09/15 - 02/08/24	25	0	CI around geomean	87.1	56.0
AW-10	UA	E004	Chromium, total	mg/L	11/09/15 - 02/08/24	24	33	CI around median	0.004	0.0480

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-10	UA	E004	Cobalt, total	mg/L	11/09/15 - 02/08/24	24	4	CI around geomean	0.00378	0.0280
AW-10	UA	E004	Fluoride, total	mg/L	11/09/15 - 02/08/24	25	96	CI around median	0.25	0.396
AW-10	UA	E004	Lead, total	mg/L	11/09/15 - 02/08/24	24	12	CI around geomean	0.002	0.0330
AW-10	UA	E004	Lithium, total	mg/L	11/09/15 - 02/08/24	24	0	CB around T-S line	-0.0292	0.0710
AW-10	UA	E004	Mercury, total	mg/L	11/09/15 - 02/08/24	19	95	CI around median	0.0002	0.0002
AW-10	UA	E004	Molybdenum, total	mg/L	11/09/15 - 02/08/24	24	25	CB around T-S line	-0.000447	0.00620
AW-10	UA	E004	pH (field)	SU	11/09/15 - 02/08/24	26	0	CI around mean	6.9/7.1	6.3/7.1
AW-10	UA	E004	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 02/08/24	24	0	CI around mean	2.32	9.60
AW-10	UA	E004	Selenium, total	mg/L	11/09/15 - 02/08/24	24	62	CI around median	0.001	0.00320
AW-10	UA	E004	Sulfate, total	mg/L	11/09/15 - 02/08/24	25	80	CB around T-S line	0.794	6.48
AW-10	UA	E004	Thallium, total	mg/L	11/09/15 - 02/08/24	19	95	CI around median	0.001	0.001
AW-10	UA	E004	Total Dissolved Solids	mg/L	11/09/15 - 02/08/24	25	0	CI around median	1,100	1,050
AW-11	UA	E004	Antimony, total	mg/L	11/09/15 - 02/08/24	18	100	All ND - Last	0.003	0.003
AW-11	UA	E004	Arsenic, total	mg/L	11/09/15 - 02/08/24	23	0	CI around geomean	0.00906	0.0300
AW-11	UA	E004	Barium, total	mg/L	11/09/15 - 02/08/24	23	0	CI around geomean	0.875	2.07
AW-11	UA	E004	Beryllium, total	mg/L	11/09/15 - 02/08/24	23	78	CI around median	0.001	0.00190
AW-11	UA	E004	Boron, total	mg/L	11/09/15 - 02/08/24	24	0	CI around mean	0.223	0.535
AW-11	UA	E004	Cadmium, total	mg/L	11/09/15 - 02/08/24	18	83	CI around median	0.001	0.00100
AW-11	UA	E004	Chloride, total	mg/L	11/09/15 - 02/08/24	24	0	CI around mean	31.3	56.0
AW-11	UA	E004	Chromium, total	mg/L	11/09/15 - 02/08/24	23	52	CB around T-S line	-0.0197	0.0480
AW-11	UA	E004	Cobalt, total	mg/L	11/09/15 - 02/08/24	23	30	CB around T-S line	-0.00666	0.0280
AW-11	UA	E004	Fluoride, total	mg/L	11/09/15 - 02/08/24	24	88	CI around median	0.25	0.396
AW-11	UA	E004	Lead, total	mg/L	11/09/15 - 02/08/24	23	39	CB around T-S line	-0.0096	0.0330
AW-11	UA	E004	Lithium, total	mg/L	11/09/15 - 02/08/24	23	17	CB around T-S line	-0.0107	0.0710
AW-11	UA	E004	Mercury, total	mg/L	11/09/15 - 02/08/24	18	100	All ND - Last	0.0002	0.0002
AW-11	UA	E004	Molybdenum, total	mg/L	11/09/15 - 02/08/24	23	9	CB around linear reg	-0.00135	0.00620
AW-11	UA	E004	pH (field)	SU	11/09/15 - 02/08/24	24	0	CI around median	6.9/7.2	6.3/7.1

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-11	UA	E004	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 02/08/24	23	0	CI around geomean	1.56	9.60
AW-11	UA	E004	Selenium, total	mg/L	11/09/15 - 02/08/24	23	70	CB around T-S line	0.000228	0.00320
AW-11	UA	E004	Sulfate, total	mg/L	11/09/15 - 02/08/24	24	67	CB around T-S line	0.235	6.48
AW-11	UA	E004	Thallium, total	mg/L	11/09/15 - 02/08/24	18	100	All ND - Last	0.001	0.001
AW-11	UA	E004	Total Dissolved Solids	mg/L	11/09/15 - 02/08/24	24	0	CB around T-S line	920	1,050
AW-14	UA	E004	Antimony, total	mg/L	02/11/21 - 02/08/24	12	92	CI around median	0.003	0.003
AW-14	UA	E004	Arsenic, total	mg/L	02/11/21 - 02/08/24	12	0	CB around linear reg	0.00037	0.0300
AW-14	UA	E004	Barium, total	mg/L	02/11/21 - 02/08/24	12	0	CI around mean	0.63	2.07
AW-14	UA	E004	Beryllium, total	mg/L	02/11/21 - 02/08/24	12	100	All ND - Last	0.001	0.00190
AW-14	UA	E004	Boron, total	mg/L	02/11/21 - 02/08/24	12	0	CI around median	0.17	0.535
AW-14	UA	E004	Cadmium, total	mg/L	02/11/21 - 02/08/24	12	100	All ND - Last	0.001	0.00100
AW-14	UA	E004	Chloride, total	mg/L	02/11/21 - 02/08/24	12	0	CI around geomean	23.2	56.0
AW-14	UA	E004	Chromium, total	mg/L	02/11/21 - 02/08/24	12	92	CI around median	0.004	0.0480
AW-14	UA	E004	Cobalt, total	mg/L	02/11/21 - 02/08/24	12	17	CB around linear reg	-0.00202	0.0280
AW-14	UA	E004	Fluoride, total	mg/L	02/11/21 - 02/08/24	12	83	CI around median	0.25	0.396
AW-14	UA	E004	Lead, total	mg/L	02/11/21 - 02/08/24	12	67	CI around median	0.001	0.0330
AW-14	UA	E004	Lithium, total	mg/L	02/11/21 - 02/08/24	12	58	CI around median	0.02	0.0710
AW-14	UA	E004	Mercury, total	mg/L	02/11/21 - 02/08/24	12	100	All ND - Last	0.0002	0.0002
AW-14	UA	E004	Molybdenum, total	mg/L	02/11/21 - 02/08/24	12	25	CI around geomean	0.0015	0.00620
AW-14	UA	E004	pH (field)	SU	02/11/21 - 02/08/24	12	0	CI around mean	6.8/7.0	6.3/7.1
AW-14	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 02/08/24	12	0	CI around mean	1.87	9.60
AW-14	UA	E004	Selenium, total	mg/L	02/11/21 - 02/08/24	12	83	CI around median	0.001	0.00320
AW-14	UA	E004	Sulfate, total	mg/L	02/11/21 - 02/08/24	12	17	CI around geomean	1.89	6.48
AW-14	UA	E004	Thallium, total	mg/L	02/11/21 - 02/08/24	12	100	All ND - Last	0.001	0.001
AW-14	UA	E004	Total Dissolved Solids	mg/L	02/11/21 - 02/08/24	12	0	CI around mean	914	1,050
AW-15	UA	E004	Antimony, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.003	0.003
AW-15	UA	E004	Arsenic, total	mg/L	02/12/21 - 02/08/24	10	0	CI around mean	0.00171	0.0300

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-15	UA	E004	Barium, total	mg/L	02/12/21 - 02/08/24	10	0	CI around mean	1.64	2.07
AW-15	UA	E004	Beryllium, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.001	0.00190
AW-15	UA	E004	Boron, total	mg/L	02/12/21 - 02/08/24	10	0	CI around mean	0.346	0.535
AW-15	UA	E004	Cadmium, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.001	0.00100
AW-15	UA	E004	Chloride, total	mg/L	02/12/21 - 02/08/24	10	0	CI around mean	33.4	56.0
AW-15	UA	E004	Chromium, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.004	0.0480
AW-15	UA	E004	Cobalt, total	mg/L	02/12/21 - 02/08/24	10	90	CI around median	0.002	0.0280
AW-15	UA	E004	Fluoride, total	mg/L	02/12/21 - 02/08/24	10	80	CI around median	0.25	0.396
AW-15	UA	E004	Lead, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.001	0.0330
AW-15	UA	E004	Lithium, total	mg/L	02/12/21 - 02/08/24	10	0	CI around mean	0.0286	0.0710
AW-15	UA	E004	Mercury, total	mg/L	02/12/21 - 02/08/24	10	90	CI around median	0.0002	0.0002
AW-15	UA	E004	Molybdenum, total	mg/L	02/12/21 - 02/08/24	10	80	CI around median	0.001	0.00620
AW-15	UA	E004	pH (field)	SU	02/12/21 - 02/08/24	9	0	CI around mean	6.7/6.9	6.3/7.1
AW-15	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 02/08/24	10	0	CI around mean	3.25	9.60
AW-15	UA	E004	Selenium, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.001	0.00320
AW-15	UA	E004	Sulfate, total	mg/L	02/12/21 - 02/08/24	10	90	Most recent sample	1	6.48
AW-15	UA	E004	Thallium, total	mg/L	02/12/21 - 02/08/24	10	100	All ND - Last	0.001	0.001
AW-15	UA	E004	Total Dissolved Solids	mg/L	02/12/21 - 02/08/24	10	0	CI around mean	916	1,050
AW-15S	PMP	E004	Antimony, total	mg/L	02/12/21 - 02/08/24	13	100	All ND - Last	0.003	0.003
AW-15S	PMP	E004	Arsenic, total	mg/L	02/12/21 - 02/08/24	13	62	CI around median	0.001	0.0300
AW-15S	PMP	E004	Barium, total	mg/L	02/12/21 - 02/08/24	13	0	CB around T-S line	-0.0712	2.07
AW-15S	PMP	E004	Beryllium, total	mg/L	02/12/21 - 02/08/24	13	92	CI around median	0.001	0.00190
AW-15S	PMP	E004	Boron, total	mg/L	02/12/21 - 02/08/24	13	0	CI around mean	5.55	0.535
AW-15S	PMP	E004	Cadmium, total	mg/L	02/12/21 - 02/08/24	13	100	All ND - Last	0.001	0.00100
AW-15S	PMP	E004	Chloride, total	mg/L	02/12/21 - 02/08/24	13	0	CB around linear reg	21.9	56.0
AW-15S	PMP	E004	Chromium, total	mg/L	02/12/21 - 02/08/24	13	92	CI around median	0.004	0.0480
AW-15S	PMP	E004	Cobalt, total	mg/L	02/12/21 - 02/08/24	13	92	CI around median	0.002	0.0280

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-15S	PMP	E004	Fluoride, total	mg/L	02/12/21 - 02/08/24	13	31	CI around median	0.25	0.396
AW-15S	PMP	E004	Lead, total	mg/L	02/12/21 - 02/08/24	13	85	CI around median	0.001	0.0330
AW-15S	PMP	E004	Lithium, total	mg/L	02/12/21 - 02/08/24	13	85	CI around median	0.02	0.0710
AW-15S	PMP	E004	Mercury, total	mg/L	02/12/21 - 02/08/24	13	100	All ND - Last	0.0002	0.0002
AW-15S	PMP	E004	Molybdenum, total	mg/L	02/12/21 - 02/08/24	13	0	CB around linear reg	0.00218	0.00620
AW-15S	PMP	E004	pH (field)	SU	02/12/21 - 02/08/24	13	0	CI around mean	6.8/7.0	6.3/7.1
AW-15S	PMP	E004	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 02/08/24	12	0	CI around mean	0.376	9.60
AW-15S	PMP	E004	Selenium, total	mg/L	02/12/21 - 02/08/24	13	38	CI around median	0.001	0.00320
AW-15S	PMP	E004	Sulfate, total	mg/L	02/12/21 - 02/08/24	13	0	CI around mean	520	6.48
AW-15S	PMP	E004	Thallium, total	mg/L	02/12/21 - 02/08/24	13	100	All ND - Last	0.001	0.001
AW-15S	PMP	E004	Total Dissolved Solids	mg/L	02/12/21 - 02/08/24	13	0	CI around mean	1,190	1,050
AW-16	UA	E004	Antimony, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.003	0.003
AW-16	UA	E004	Arsenic, total	mg/L	02/11/21 - 02/08/24	13	23	CI around mean	0.00116	0.0300
AW-16	UA	E004	Barium, total	mg/L	02/11/21 - 02/08/24	13	0	CB around linear reg	0.975	2.07
AW-16	UA	E004	Beryllium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.00190
AW-16	UA	E004	Boron, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	0.461	0.535
AW-16	UA	E004	Cadmium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.00100
AW-16	UA	E004	Chloride, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	49.4	56.0
AW-16	UA	E004	Chromium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.004	0.0480
AW-16	UA	E004	Cobalt, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.002	0.0280
AW-16	UA	E004	Fluoride, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.25	0.396
AW-16	UA	E004	Lead, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.0330
AW-16	UA	E004	Lithium, total	mg/L	02/11/21 - 02/08/24	13	0	CI around median	0.032	0.0710
AW-16	UA	E004	Mercury, total	mg/L	02/11/21 - 02/08/24	13	92	CI around median	0.0002	0.0002
AW-16	UA	E004	Molybdenum, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.00620
AW-16	UA	E004	pH (field)	SU	02/11/21 - 02/08/24	13	0	CI around mean	6.6/6.8	6.3/7.1
AW-16	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 02/08/24	13	0	CB around linear reg	1.78	9.60

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-16	UA	E004	Selenium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.00320
AW-16	UA	E004	Sulfate, total	mg/L	02/11/21 - 02/08/24	13	85	CI around median	1	6.48
AW-16	UA	E004	Thallium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.001
AW-16	UA	E004	Total Dissolved Solids	mg/L	02/11/21 - 02/08/24	13	0	CI around geomean	1,060	1,050
AW-17	UA	E004	Antimony, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.003	0.003
AW-17	UA	E004	Arsenic, total	mg/L	02/11/21 - 02/08/24	13	0	CB around linear reg	0.00227	0.0300
AW-17	UA	E004	Barium, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	1.02	2.07
AW-17	UA	E004	Beryllium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.00190
AW-17	UA	E004	Boron, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	0.417	0.535
AW-17	UA	E004	Cadmium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.00100
AW-17	UA	E004	Chloride, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	52	56.0
AW-17	UA	E004	Chromium, total	mg/L	02/11/21 - 02/08/24	13	69	CI around median	0.004	0.0480
AW-17	UA	E004	Cobalt, total	mg/L	02/11/21 - 02/08/24	13	0	CI around median	0.0022	0.0280
AW-17	UA	E004	Fluoride, total	mg/L	02/11/21 - 02/08/24	13	92	CI around median	0.25	0.396
AW-17	UA	E004	Lead, total	mg/L	02/11/21 - 02/08/24	13	69	CI around median	0.001	0.0330
AW-17	UA	E004	Lithium, total	mg/L	02/11/21 - 02/08/24	13	0	CB around linear reg	0.00358	0.0710
AW-17	UA	E004	Mercury, total	mg/L	02/11/21 - 02/08/24	13	92	CI around median	0.0002	0.0002
AW-17	UA	E004	Molybdenum, total	mg/L	02/11/21 - 02/08/24	13	46	CB around linear reg	-1.69e-05	0.00620
AW-17	UA	E004	pH (field)	SU	02/11/21 - 02/08/24	13	0	CI around mean	6.6/7.0	6.3/7.1
AW-17	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 02/08/24	13	0	CI around mean	2.56	9.60
AW-17	UA	E004	Selenium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.00320
AW-17	UA	E004	Sulfate, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	1	6.48
AW-17	UA	E004	Thallium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.001
AW-17	UA	E004	Total Dissolved Solids	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	835	1,050
AW-18	UA	E004	Antimony, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.003	0.003
AW-18	UA	E004	Arsenic, total	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	0.00333	0.0300
AW-18	UA	E004	Barium, total	mg/L	02/11/21 - 02/07/24	13	0	CB around linear reg	1.21	2.07

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-18	UA	E004	Beryllium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.001	0.00190
AW-18	UA	E004	Boron, total	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	0.594	0.535
AW-18	UA	E004	Cadmium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.001	0.00100
AW-18	UA	E004	Chloride, total	mg/L	02/11/21 - 02/07/24	13	0	CB around linear reg	83.7	56.0
AW-18	UA	E004	Chromium, total	mg/L	02/11/21 - 02/07/24	13	92	CI around median	0.004	0.0480
AW-18	UA	E004	Cobalt, total	mg/L	02/11/21 - 02/07/24	13	77	CI around median	0.002	0.0280
AW-18	UA	E004	Fluoride, total	mg/L	02/11/21 - 02/07/24	13	54	CI around median	0.25	0.396
AW-18	UA	E004	Lead, total	mg/L	02/11/21 - 02/07/24	13	77	CI around median	0.001	0.0330
AW-18	UA	E004	Lithium, total	mg/L	02/11/21 - 02/07/24	13	0	CB around linear reg	-0.0217	0.0710
AW-18	UA	E004	Mercury, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.0002	0.0002
AW-18	UA	E004	Molybdenum, total	mg/L	02/11/21 - 02/07/24	13	0	CB around linear reg	-0.0118	0.00620
AW-18	UA	E004	pH (field)	SU	02/11/21 - 02/07/24	13	0	CI around mean	6.7/7.0	6.3/7.1
AW-18	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 02/07/24	13	0	CI around mean	2.38	9.60
AW-18	UA	E004	Selenium, total	mg/L	02/11/21 - 02/07/24	13	92	CI around median	0.001	0.00320
AW-18	UA	E004	Sulfate, total	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	4.19	6.48
AW-18	UA	E004	Thallium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.001	0.001
AW-18	UA	E004	Total Dissolved Solids	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	789	1,050
AW-19	UA	E004	Antimony, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.003	0.003
AW-19	UA	E004	Arsenic, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	0.0114	0.0300
AW-19	UA	E004	Barium, total	mg/L	02/11/21 - 02/08/24	13	0	CI around median	0.18	2.07
AW-19	UA	E004	Beryllium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.00190
AW-19	UA	E004	Boron, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	2.55	0.535
AW-19	UA	E004	Cadmium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.00100
AW-19	UA	E004	Chloride, total	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	76.6	56.0
AW-19	UA	E004	Chromium, total	mg/L	02/11/21 - 02/08/24	13	69	CI around median	0.004	0.0480
AW-19	UA	E004	Cobalt, total	mg/L	02/11/21 - 02/08/24	13	69	CI around median	0.002	0.0280
AW-19	UA	E004	Fluoride, total	mg/L	02/11/21 - 02/08/24	13	8	CB around linear reg	0.13	0.396

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-19	UA	E004	Lead, total	mg/L	02/11/21 - 02/08/24	13	46	CI around median	0.001	0.0330
AW-19	UA	E004	Lithium, total	mg/L	02/11/21 - 02/08/24	13	69	CI around median	0.02	0.0710
AW-19	UA	E004	Mercury, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.0002	0.0002
AW-19	UA	E004	Molybdenum, total	mg/L	02/11/21 - 02/08/24	13	0	CI around median	0.0035	0.00620
AW-19	UA	E004	pH (field)	SU	02/11/21 - 02/08/24	13	0	CI around mean	6.7/7.1	6.3/7.1
AW-19	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 02/08/24	13	0	CI around mean	0.483	9.60
AW-19	UA	E004	Selenium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.00320
AW-19	UA	E004	Sulfate, total	mg/L	02/11/21 - 02/08/24	13	0	CB around linear reg	52.4	6.48
AW-19	UA	E004	Thallium, total	mg/L	02/11/21 - 02/08/24	13	100	All ND - Last	0.001	0.001
AW-19	UA	E004	Total Dissolved Solids	mg/L	02/11/21 - 02/08/24	13	0	CI around mean	560	1,050
AW-21	UA	E004	Antimony, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.003	0.003
AW-21	UA	E004	Arsenic, total	mg/L	02/11/21 - 02/07/24	13	23	CI around mean	0.00108	0.0300
AW-21	UA	E004	Barium, total	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	0.0599	2.07
AW-21	UA	E004	Beryllium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.001	0.00190
AW-21	UA	E004	Boron, total	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	10.4	0.535
AW-21	UA	E004	Cadmium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.001	0.00100
AW-21	UA	E004	Chloride, total	mg/L	02/11/21 - 02/07/24	13	0	CI around median	83	56.0
AW-21	UA	E004	Chromium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.004	0.0480
AW-21	UA	E004	Cobalt, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.002	0.0280
AW-21	UA	E004	Fluoride, total	mg/L	02/11/21 - 02/07/24	13	8	CB around linear reg	0.0908	0.396
AW-21	UA	E004	Lead, total	mg/L	02/11/21 - 02/07/24	13	92	CI around median	0.001	0.0330
AW-21	UA	E004	Lithium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.02	0.0710
AW-21	UA	E004	Mercury, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.0002	0.0002
AW-21	UA	E004	Molybdenum, total	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	0.0173	0.00620
AW-21	UA	E004	pH (field)	SU	02/11/21 - 02/07/24	13	0	CI around median	7.1/7.3	6.3/7.1
AW-21	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 02/07/24	13	0	CI around mean	0.469	9.60
AW-21	UA	E004	Selenium, total	mg/L	02/11/21 - 02/07/24	13	69	CB around T-S line	0.001	0.00320

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-21	UA	E004	Sulfate, total	mg/L	02/11/21 - 02/07/24	13	0	CI around median	230	6.48
AW-21	UA	E004	Thallium, total	mg/L	02/11/21 - 02/07/24	13	100	All ND - Last	0.001	0.001
AW-21	UA	E004	Total Dissolved Solids	mg/L	02/11/21 - 02/07/24	13	0	CI around mean	639	1,050

Notes:
Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value
HSU = hydrostratigraphic unit:
PMP = Potential Migration Pathway
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