



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

December 13, 2023

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.) Section (§) 845.610(b)(3)(D), Illinois Power Resources Generating, LLC (IPRG) is submitting groundwater monitoring data for the Quarter 3, 2023 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 GWPS were detected. This notification of exceedances of the GWPSs in 35 I.A.C. § 845.600 will be placed in the facility's operating record within 30 days as required by 35 I.A.C. § 845.800(d)(16). As allowed in 35 I.A.C. § 845.650(e), an alternative source demonstration (ASD) 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 3, 2023, Ash Pond, Edwards Power Plant, Bartonville, Illinois*

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

December 13, 2023

Samples were collected on August 21 through 23 and August 28 through August 29, 2023 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on October 14, 2023.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 3, 2023 sampling event. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 3, 2023 sampling event.

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

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

Supplemental Tables and Attachments were included in this report for wells not contained within the 35 I.A.C. § 845 Groundwater Monitoring Well Network<sup>2</sup>. Supplemental **Table 3** is a summary of the field parameters and analytical results. Statistically derived values identified as Statistical Results in Supplemental **Table 4** were compared with the GWPSs. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 3, 2023 supplemental sampling event. **Attachment D** summarizes the groundwater elevation data for the Quarter 3, 2023 sampling event. **Attachment E** shows the statistically derived values compared to background levels.

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 Illinois Environmental Protection Agency (IEPA) within 60 days of this transmittal.

<sup>1</sup> Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan. Ash Pond. Edwards Power Plant. Bartonville, Illinois. October 25, 2021.*

<sup>2</sup> Supplemental data is being provided as part of on-going nature and extent characterization activities consistent with 35 I.A.C. § 845.650(d)(1) at the Edwards Ash Pond.

## TABLES

Table 1	Field Parameters and Analytical Results - Quarter 3, 2023
Table 2	Comparison of Statistical Results to GWPS - Quarter 3, 2023
Table 3	Supplemental Field Parameters and Analytical Results - Quarter 3, 2023
Table 4	Supplemental Comparison of Statistical Results to GWPS - Quarter 3, 2023

## FIGURES

Figure 1	35 I.A.C. § 845 Groundwater Monitoring Well Network
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## ATTACHMENTS

Attachment A	Groundwater Elevation Data - Quarter 3, 2023
Attachment B	Laboratory Reports and Field Data Sheets - Quarter 3, 2023
Attachment C	Comparison of Statistical Results to Background - Quarter 3, 2023
Attachment D	Supplemental Groundwater Elevation Data - Quarter 3, 2023
Attachment E	Supplemental Comparison of Statistical Results to Background - Quarter 3, 2023

## **TABLES**



**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AP05S	Background	E002	08/23/2023	Antimony, total	0.00043 U	mg/L
AP05S	Background	E002	08/23/2023	Arsenic, total	0.00100	mg/L
AP05S	Background	E002	08/23/2023	Barium, total	0.830	mg/L
AP05S	Background	E002	08/23/2023	Beryllium, total	0.00059 U	mg/L
AP05S	Background	E002	08/23/2023	Boron, total	0.320 J+	mg/L
AP05S	Background	E002	08/23/2023	Cadmium, total	0.00074 U	mg/L
AP05S	Background	E002	08/23/2023	Calcium, total	100	mg/L
AP05S	Background	E002	08/23/2023	Chloride, total	41.0	mg/L
AP05S	Background	E002	08/23/2023	Chromium, total	0.0028 U	mg/L
AP05S	Background	E002	08/23/2023	Cobalt, total	0.0011 J	mg/L
AP05S	Background	E002	08/23/2023	Dissolved Oxygen	1.30	mg/L
AP05S	Background	E002	08/23/2023	Fluoride, total	0.095 J	mg/L
AP05S	Background	E002	08/23/2023	Lead, total	0.00035 J	mg/L
AP05S	Background	E002	08/23/2023	Lithium, total	0.0270	mg/L
AP05S	Background	E002	08/23/2023	Mercury, total	0.00014 U	mg/L
AP05S	Background	E002	08/23/2023	Molybdenum, total	0.00074 U	mg/L
AP05S	Background	E002	08/23/2023	Oxidation Reduction Potential	-133	mV
AP05S	Background	E002	08/23/2023	pH (field)	6.9	SU
AP05S	Background	E002	08/23/2023	Radium 226 + Radium 228, total	1.40	pCi/L
AP05S	Background	E002	08/23/2023	Selenium, total	0.00074 U	mg/L
AP05S	Background	E002	08/23/2023	Specific Conductance @ 25C (field)	1,490	micromhos/cm
AP05S	Background	E002	08/23/2023	Sulfate, total	5.60	mg/L
AP05S	Background	E002	08/23/2023	Temperature	26.7	degrees C
AP05S	Background	E002	08/23/2023	Thallium, total	0.00038 U	mg/L
AP05S	Background	E002	08/23/2023	Total Dissolved Solids	890 J	mg/L
AP05S	Background	E002	08/23/2023	Turbidity, field	39.7	NTU
AW-08	Background	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
AW-08	Background	E002	08/28/2023	Arsenic, total	0.00980	mg/L
AW-08	Background	E002	08/28/2023	Barium, total	0.190	mg/L
AW-08	Background	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
AW-08	Background	E002	08/28/2023	Boron, total	0.120 J+	mg/L
AW-08	Background	E002	08/28/2023	Cadmium, total	0.00074 U	mg/L
AW-08	Background	E002	08/28/2023	Calcium, total	140	mg/L
AW-08	Background	E002	08/28/2023	Chloride, total	15.0	mg/L
AW-08	Background	E002	08/28/2023	Chromium, total	0.0028 U	mg/L
AW-08	Background	E002	08/28/2023	Cobalt, total	0.00048 U	mg/L
AW-08	Background	E002	08/28/2023	Dissolved Oxygen	12.0	mg/L
AW-08	Background	E002	08/28/2023	Fluoride, total	0.195 J	mg/L
AW-08	Background	E002	08/28/2023	Lead, total	0.00022 U	mg/L
AW-08	Background	E002	08/28/2023	Lithium, total	0.013 J	mg/L
AW-08	Background	E002	08/28/2023	Mercury, total	0.00014 U	mg/L
AW-08	Background	E002	08/28/2023	Molybdenum, total	0.00180 J+	mg/L
AW-08	Background	E002	08/28/2023	Oxidation Reduction Potential	-120	mV
AW-08	Background	E002	08/28/2023	pH (field)	6.9	SU
AW-08	Background	E002	08/28/2023	Radium 226 + Radium 228, total	0.434	pCi/L
AW-08	Background	E002	08/28/2023	Selenium, total	0.00074 U	mg/L

**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-08	Background	E002	08/28/2023	Specific Conductance @ 25C (field)	473	micromhos/cm
AW-08	Background	E002	08/28/2023	Sulfate, total	0.18 U	mg/L
AW-08	Background	E002	08/28/2023	Temperature	19.9	degrees C
AW-08	Background	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
AW-08	Background	E002	08/28/2023	Total Dissolved Solids	720	mg/L
AW-08	Background	E002	08/28/2023	Turbidity, field	116	NTU
AP07S	Compliance	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
AP07S	Compliance	E002	08/28/2023	Arsenic, total	0.00069 U	mg/L
AP07S	Compliance	E002	08/28/2023	Barium, total	0.0730	mg/L
AP07S	Compliance	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
AP07S	Compliance	E002	08/28/2023	Boron, total	9.40	mg/L
AP07S	Compliance	E002	08/28/2023	Cadmium, total	0.00130	mg/L
AP07S	Compliance	E002	08/28/2023	Calcium, total	160	mg/L
AP07S	Compliance	E002	08/28/2023	Chloride, total	83.0	mg/L
AP07S	Compliance	E002	08/28/2023	Chromium, total	0.0028 U	mg/L
AP07S	Compliance	E002	08/28/2023	Cobalt, total	0.00290	mg/L
AP07S	Compliance	E002	08/28/2023	Dissolved Oxygen	9.80	mg/L
AP07S	Compliance	E002	08/28/2023	Fluoride, total	0.215 J	mg/L
AP07S	Compliance	E002	08/28/2023	Lead, total	0.0009 J	mg/L
AP07S	Compliance	E002	08/28/2023	Lithium, total	0.0061 J	mg/L
AP07S	Compliance	E002	08/28/2023	Mercury, total	0.00014 U	mg/L
AP07S	Compliance	E002	08/28/2023	Molybdenum, total	0.00110 J+	mg/L
AP07S	Compliance	E002	08/28/2023	Oxidation Reduction Potential	44.0	mV
AP07S	Compliance	E002	08/28/2023	pH (field)	7.0	SU
AP07S	Compliance	E002	08/28/2023	Radium 226 + Radium 228, total	1.26	pCi/L
AP07S	Compliance	E002	08/28/2023	Selenium, total	0.00074 U	mg/L
AP07S	Compliance	E002	08/28/2023	Specific Conductance @ 25C (field)	1,420	micromhos/cm
AP07S	Compliance	E002	08/28/2023	Sulfate, total	240	mg/L
AP07S	Compliance	E002	08/28/2023	Temperature	20.6	degrees C
AP07S	Compliance	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
AP07S	Compliance	E002	08/28/2023	Total Dissolved Solids	880	mg/L
AP07S	Compliance	E002	08/28/2023	Turbidity, field	101	NTU
AW-01	Compliance	E002	08/22/2023	Antimony, total	0.00043 U	mg/L
AW-01	Compliance	E002	08/22/2023	Arsenic, total	0.00510	mg/L
AW-01	Compliance	E002	08/22/2023	Barium, total	0.130	mg/L
AW-01	Compliance	E002	08/22/2023	Beryllium, total	0.00059 U	mg/L
AW-01	Compliance	E002	08/22/2023	Boron, total	0.0920 J+	mg/L
AW-01	Compliance	E002	08/22/2023	Cadmium, total	0.00074 U	mg/L
AW-01	Compliance	E002	08/22/2023	Calcium, total	190	mg/L
AW-01	Compliance	E002	08/22/2023	Chloride, total	12.0	mg/L
AW-01	Compliance	E002	08/22/2023	Chromium, total	0.0028 U	mg/L
AW-01	Compliance	E002	08/22/2023	Cobalt, total	0.00380	mg/L
AW-01	Compliance	E002	08/22/2023	Dissolved Oxygen	0.510	mg/L
AW-01	Compliance	E002	08/22/2023	Fluoride, total	0.280	mg/L
AW-01	Compliance	E002	08/22/2023	Lead, total	0.00022 U	mg/L
AW-01	Compliance	E002	08/22/2023	Lithium, total	0.006 J	mg/L

**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-01	Compliance	E002	08/22/2023	Mercury, total	0.00014 J	mg/L
AW-01	Compliance	E002	08/22/2023	Molybdenum, total	0.00410	mg/L
AW-01	Compliance	E002	08/22/2023	Oxidation Reduction Potential	-95.0	mV
AW-01	Compliance	E002	08/22/2023	pH (field)	6.6	SU
AW-01	Compliance	E002	08/22/2023	Radium 226 + Radium 228, total	1.13 J	pCi/L
AW-01	Compliance	E002	08/22/2023	Selenium, total	0.00074 U	mg/L
AW-01	Compliance	E002	08/22/2023	Specific Conductance @ 25C (field)	1,450	micromhos/cm
AW-01	Compliance	E002	08/22/2023	Sulfate, total	52.0	mg/L
AW-01	Compliance	E002	08/22/2023	Temperature	24.7	degrees C
AW-01	Compliance	E002	08/22/2023	Thallium, total	0.00038 U	mg/L
AW-01	Compliance	E002	08/22/2023	Total Dissolved Solids	830	mg/L
AW-01	Compliance	E002	08/22/2023	Turbidity, field	8.50	NTU
AW-05	Compliance	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
AW-05	Compliance	E002	08/28/2023	Arsenic, total	0.00330	mg/L
AW-05	Compliance	E002	08/28/2023	Barium, total	0.130	mg/L
AW-05	Compliance	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
AW-05	Compliance	E002	08/28/2023	Boron, total	8.60	mg/L
AW-05	Compliance	E002	08/28/2023	Cadmium, total	0.00074 U	mg/L
AW-05	Compliance	E002	08/28/2023	Calcium, total	180	mg/L
AW-05	Compliance	E002	08/28/2023	Chloride, total	78.0	mg/L
AW-05	Compliance	E002	08/28/2023	Chromium, total	0.00730	mg/L
AW-05	Compliance	E002	08/28/2023	Cobalt, total	0.00530	mg/L
AW-05	Compliance	E002	08/28/2023	Dissolved Oxygen	0.490	mg/L
AW-05	Compliance	E002	08/28/2023	Fluoride, total	0.166 J	mg/L
AW-05	Compliance	E002	08/28/2023	Lead, total	0.00370	mg/L
AW-05	Compliance	E002	08/28/2023	Lithium, total	0.017 J	mg/L
AW-05	Compliance	E002	08/28/2023	Mercury, total	0.000440	mg/L
AW-05	Compliance	E002	08/28/2023	Molybdenum, total	0.00250 J+	mg/L
AW-05	Compliance	E002	08/28/2023	Oxidation Reduction Potential	26.0	mV
AW-05	Compliance	E002	08/28/2023	pH (field)	7.0	SU
AW-05	Compliance	E002	08/28/2023	Radium 226 + Radium 228, total	0.0965	pCi/L
AW-05	Compliance	E002	08/28/2023	Selenium, total	0.00074 U	mg/L
AW-05	Compliance	E002	08/28/2023	Specific Conductance @ 25C (field)	1,730	micromhos/cm
AW-05	Compliance	E002	08/28/2023	Sulfate, total	460	mg/L
AW-05	Compliance	E002	08/28/2023	Temperature	21.4	degrees C
AW-05	Compliance	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
AW-05	Compliance	E002	08/28/2023	Total Dissolved Solids	1,200	mg/L
AW-05	Compliance	E002	08/28/2023	Turbidity, field	697	NTU
AW-06	Compliance	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
AW-06	Compliance	E002	08/28/2023	Arsenic, total	0.00520	mg/L
AW-06	Compliance	E002	08/28/2023	Barium, total	0.190	mg/L
AW-06	Compliance	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
AW-06	Compliance	E002	08/28/2023	Boron, total	0.130 J+	mg/L
AW-06	Compliance	E002	08/28/2023	Cadmium, total	0.00074 U	mg/L
AW-06	Compliance	E002	08/28/2023	Calcium, total	120	mg/L
AW-06	Compliance	E002	08/28/2023	Chloride, total	33.0	mg/L

**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-06	Compliance	E002	08/28/2023	Chromium, total	0.0028 U	mg/L
AW-06	Compliance	E002	08/28/2023	Cobalt, total	0.00098 J	mg/L
AW-06	Compliance	E002	08/28/2023	Dissolved Oxygen	2.00	mg/L
AW-06	Compliance	E002	08/28/2023	Fluoride, total	0.284	mg/L
AW-06	Compliance	E002	08/28/2023	Lead, total	0.00074 J	mg/L
AW-06	Compliance	E002	08/28/2023	Lithium, total	0.013 J	mg/L
AW-06	Compliance	E002	08/28/2023	Mercury, total	0.00015 J	mg/L
AW-06	Compliance	E002	08/28/2023	Molybdenum, total	0.00600 J+	mg/L
AW-06	Compliance	E002	08/28/2023	Oxidation Reduction Potential	-85.0	mV
AW-06	Compliance	E002	08/28/2023	pH (field)	7.0	SU
AW-06	Compliance	E002	08/28/2023	Radium 226 + Radium 228, total	0.107	pCi/L
AW-06	Compliance	E002	08/28/2023	Selenium, total	0.00074 U	mg/L
AW-06	Compliance	E002	08/28/2023	Specific Conductance @ 25C (field)	1,110	micromhos/cm
AW-06	Compliance	E002	08/28/2023	Sulfate, total	27.0	mg/L
AW-06	Compliance	E002	08/28/2023	Temperature	23.3	degrees C
AW-06	Compliance	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
AW-06	Compliance	E002	08/28/2023	Total Dissolved Solids	560	mg/L
AW-06	Compliance	E002	08/28/2023	Turbidity, field	36.3	NTU
AW-09	Compliance	E002	08/29/2023	Antimony, total	0.00043 U	mg/L
AW-09	Compliance	E002	08/29/2023	Arsenic, total	0.0170	mg/L
AW-09	Compliance	E002	08/29/2023	Barium, total	0.390	mg/L
AW-09	Compliance	E002	08/29/2023	Beryllium, total	0.00059 U	mg/L
AW-09	Compliance	E002	08/29/2023	Boron, total	0.310	mg/L
AW-09	Compliance	E002	08/29/2023	Cadmium, total	0.00074 U	mg/L
AW-09	Compliance	E002	08/29/2023	Calcium, total	120	mg/L
AW-09	Compliance	E002	08/29/2023	Chloride, total	28.0	mg/L
AW-09	Compliance	E002	08/29/2023	Chromium, total	0.0028 U	mg/L
AW-09	Compliance	E002	08/29/2023	Cobalt, total	0.00300	mg/L
AW-09	Compliance	E002	08/29/2023	Dissolved Oxygen	4.50	mg/L
AW-09	Compliance	E002	08/29/2023	Fluoride, total	0.145 J	mg/L
AW-09	Compliance	E002	08/29/2023	Lead, total	0.00130	mg/L
AW-09	Compliance	E002	08/29/2023	Lithium, total	0.019 J	mg/L
AW-09	Compliance	E002	08/29/2023	Mercury, total	0.00014 U	mg/L
AW-09	Compliance	E002	08/29/2023	Molybdenum, total	0.0210	mg/L
AW-09	Compliance	E002	08/29/2023	Oxidation Reduction Potential	-94.0	mV
AW-09	Compliance	E002	08/29/2023	pH (field)	7.1	SU
AW-09	Compliance	E002	08/29/2023	Radium 226 + Radium 228, total	1.52 J+	pCi/L
AW-09	Compliance	E002	08/29/2023	Selenium, total	0.00074 U	mg/L
AW-09	Compliance	E002	08/29/2023	Specific Conductance @ 25C (field)	1,500	micromhos/cm
AW-09	Compliance	E002	08/29/2023	Sulfate, total	0.22 J	mg/L
AW-09	Compliance	E002	08/29/2023	Temperature	18.2	degrees C
AW-09	Compliance	E002	08/29/2023	Thallium, total	0.00038 U	mg/L
AW-09	Compliance	E002	08/29/2023	Total Dissolved Solids	840	mg/L
AW-09	Compliance	E002	08/29/2023	Turbidity, field	177	NTU
AW-10	Compliance	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
AW-10	Compliance	E002	08/28/2023	Arsenic, total	0.0130	mg/L

**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-10	Compliance	E002	08/28/2023	Barium, total	1.10	mg/L
AW-10	Compliance	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
AW-10	Compliance	E002	08/28/2023	Boron, total	0.500	mg/L
AW-10	Compliance	E002	08/28/2023	Cadmium, total	0.00074 U	mg/L
AW-10	Compliance	E002	08/28/2023	Calcium, total	140	mg/L
AW-10	Compliance	E002	08/28/2023	Chloride, total	86.0	mg/L
AW-10	Compliance	E002	08/28/2023	Chromium, total	0.0100	mg/L
AW-10	Compliance	E002	08/28/2023	Cobalt, total	0.00770	mg/L
AW-10	Compliance	E002	08/28/2023	Dissolved Oxygen	0	mg/L
AW-10	Compliance	E002	08/28/2023	Fluoride, total	0.182 J	mg/L
AW-10	Compliance	E002	08/28/2023	Lead, total	0.00800	mg/L
AW-10	Compliance	E002	08/28/2023	Lithium, total	0.0480	mg/L
AW-10	Compliance	E002	08/28/2023	Mercury, total	0.00014 U	mg/L
AW-10	Compliance	E002	08/28/2023	Molybdenum, total	0.00110 J+	mg/L
AW-10	Compliance	E002	08/28/2023	Oxidation Reduction Potential	-111	mV
AW-10	Compliance	E002	08/28/2023	pH (field)	6.4	SU
AW-10	Compliance	E002	08/28/2023	Radium 226 + Radium 228, total	4.03	pCi/L
AW-10	Compliance	E002	08/28/2023	Selenium, total	0.00074 U	mg/L
AW-10	Compliance	E002	08/28/2023	Specific Conductance @ 25C (field)	2,370	micromhos/cm
AW-10	Compliance	E002	08/28/2023	Sulfate, total	0.18 U	mg/L
AW-10	Compliance	E002	08/28/2023	Temperature	20.3	degrees C
AW-10	Compliance	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
AW-10	Compliance	E002	08/28/2023	Total Dissolved Solids	1,300	mg/L
AW-10	Compliance	E002	08/28/2023	Turbidity, field	0 U	NTU
AW-11	Compliance	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
AW-11	Compliance	E002	08/28/2023	Arsenic, total	0.0110	mg/L
AW-11	Compliance	E002	08/28/2023	Barium, total	0.870	mg/L
AW-11	Compliance	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
AW-11	Compliance	E002	08/28/2023	Boron, total	0.240 J+	mg/L
AW-11	Compliance	E002	08/28/2023	Cadmium, total	0.00074 U	mg/L
AW-11	Compliance	E002	08/28/2023	Calcium, total	170	mg/L
AW-11	Compliance	E002	08/28/2023	Chloride, total	32.0	mg/L
AW-11	Compliance	E002	08/28/2023	Chromium, total	0.0028 U	mg/L
AW-11	Compliance	E002	08/28/2023	Cobalt, total	0.0019 J	mg/L
AW-11	Compliance	E002	08/28/2023	Dissolved Oxygen	0.240	mg/L
AW-11	Compliance	E002	08/28/2023	Fluoride, total	0.153 J	mg/L
AW-11	Compliance	E002	08/28/2023	Lead, total	0.00086 J	mg/L
AW-11	Compliance	E002	08/28/2023	Lithium, total	0.0210	mg/L
AW-11	Compliance	E002	08/28/2023	Mercury, total	0.00014 U	mg/L
AW-11	Compliance	E002	08/28/2023	Molybdenum, total	0.00170 J+	mg/L
AW-11	Compliance	E002	08/28/2023	Oxidation Reduction Potential	-96.0	mV
AW-11	Compliance	E002	08/28/2023	pH (field)	6.3	SU
AW-11	Compliance	E002	08/28/2023	Radium 226 + Radium 228, total	2.45	pCi/L
AW-11	Compliance	E002	08/28/2023	Selenium, total	0.00074 U	mg/L
AW-11	Compliance	E002	08/28/2023	Specific Conductance @ 25C (field)	1,990	micromhos/cm
AW-11	Compliance	E002	08/28/2023	Sulfate, total	0.18 U	mg/L



**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-11	Compliance	E002	08/28/2023	Temperature	16.8	degrees C
AW-11	Compliance	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
AW-11	Compliance	E002	08/28/2023	Total Dissolved Solids	1,000	mg/L
AW-11	Compliance	E002	08/28/2023	Turbidity, field	100	NTU
AW-14	Compliance	E002	08/23/2023	Antimony, total	0.00043 U	mg/L
AW-14	Compliance	E002	08/23/2023	Arsenic, total	0.00520	mg/L
AW-14	Compliance	E002	08/23/2023	Barium, total	0.840	mg/L
AW-14	Compliance	E002	08/23/2023	Beryllium, total	0.00059 U	mg/L
AW-14	Compliance	E002	08/23/2023	Boron, total	0.180 J+	mg/L
AW-14	Compliance	E002	08/23/2023	Cadmium, total	0.00074 U	mg/L
AW-14	Compliance	E002	08/23/2023	Calcium, total	170	mg/L
AW-14	Compliance	E002	08/23/2023	Chloride, total	24.0	mg/L
AW-14	Compliance	E002	08/23/2023	Chromium, total	0.0028 U	mg/L
AW-14	Compliance	E002	08/23/2023	Cobalt, total	0.0019 J	mg/L
AW-14	Compliance	E002	08/23/2023	Dissolved Oxygen	1.10	mg/L
AW-14	Compliance	E002	08/23/2023	Fluoride, total	0.116 J	mg/L
AW-14	Compliance	E002	08/23/2023	Lead, total	0.00022 U	mg/L
AW-14	Compliance	E002	08/23/2023	Lithium, total	0.016 J	mg/L
AW-14	Compliance	E002	08/23/2023	Mercury, total	0.00014 U	mg/L
AW-14	Compliance	E002	08/23/2023	Molybdenum, total	0.00140	mg/L
AW-14	Compliance	E002	08/23/2023	Oxidation Reduction Potential	-132	mV
AW-14	Compliance	E002	08/23/2023	pH (field)	7.0	SU
AW-14	Compliance	E002	08/23/2023	Radium 226 + Radium 228, total	3.53	pCi/L
AW-14	Compliance	E002	08/23/2023	Selenium, total	0.00074 U	mg/L
AW-14	Compliance	E002	08/23/2023	Specific Conductance @ 25C (field)	1,720	micromhos/cm
AW-14	Compliance	E002	08/23/2023	Sulfate, total	1.80 J+	mg/L
AW-14	Compliance	E002	08/23/2023	Temperature	23.2	degrees C
AW-14	Compliance	E002	08/23/2023	Thallium, total	0.00038 U	mg/L
AW-14	Compliance	E002	08/23/2023	Total Dissolved Solids	960	mg/L
AW-14	Compliance	E002	08/23/2023	Turbidity, field	0 U	NTU
AW-15	Compliance	E002	08/23/2023	Antimony, total	0.00043 U	mg/L
AW-15	Compliance	E002	08/23/2023	Arsenic, total	0.00130	mg/L
AW-15	Compliance	E002	08/23/2023	Barium, total	1.80	mg/L
AW-15	Compliance	E002	08/23/2023	Beryllium, total	0.00059 U	mg/L
AW-15	Compliance	E002	08/23/2023	Boron, total	0.370	mg/L
AW-15	Compliance	E002	08/23/2023	Cadmium, total	0.00074 U	mg/L
AW-15	Compliance	E002	08/23/2023	Calcium, total	140	mg/L
AW-15	Compliance	E002	08/23/2023	Chloride, total	34.0	mg/L
AW-15	Compliance	E002	08/23/2023	Chromium, total	0.0028 U	mg/L
AW-15	Compliance	E002	08/23/2023	Cobalt, total	0.0016 J	mg/L
AW-15	Compliance	E002	08/23/2023	Dissolved Oxygen	0.450	mg/L
AW-15	Compliance	E002	08/23/2023	Fluoride, total	0.082 J	mg/L
AW-15	Compliance	E002	08/23/2023	Lead, total	0.00022 U	mg/L
AW-15	Compliance	E002	08/23/2023	Lithium, total	0.0280	mg/L
AW-15	Compliance	E002	08/23/2023	Mercury, total	0.00014 U	mg/L
AW-15	Compliance	E002	08/23/2023	Molybdenum, total	0.00074 U	mg/L

**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-15	Compliance	E002	08/23/2023	Oxidation Reduction Potential	-140	mV
AW-15	Compliance	E002	08/23/2023	pH (field)	6.8	SU
AW-15	Compliance	E002	08/23/2023	Radium 226 + Radium 228, total	6.12	pCi/L
AW-15	Compliance	E002	08/23/2023	Selenium, total	0.00074 U	mg/L
AW-15	Compliance	E002	08/23/2023	Specific Conductance @ 25C (field)	2,050	micromhos/cm
AW-15	Compliance	E002	08/23/2023	Sulfate, total	0.18 U	mg/L
AW-15	Compliance	E002	08/23/2023	Temperature	19.5	degrees C
AW-15	Compliance	E002	08/23/2023	Thallium, total	0.00038 U	mg/L
AW-15	Compliance	E002	08/23/2023	Total Dissolved Solids	1,100	mg/L
AW-15	Compliance	E002	08/23/2023	Turbidity, field	0 U	NTU
AW-15S	Compliance	E002	08/23/2023	Antimony, total	0.00043 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Arsenic, total	0.00069 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Barium, total	0.0870	mg/L
AW-15S	Compliance	E002	08/23/2023	Beryllium, total	0.00059 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Boron, total	5.70	mg/L
AW-15S	Compliance	E002	08/23/2023	Cadmium, total	0.00074 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Calcium, total	270	mg/L
AW-15S	Compliance	E002	08/23/2023	Chloride, total	31.0	mg/L
AW-15S	Compliance	E002	08/23/2023	Chromium, total	0.0028 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Cobalt, total	0.00059 J	mg/L
AW-15S	Compliance	E002	08/23/2023	Dissolved Oxygen	0.350	mg/L
AW-15S	Compliance	E002	08/23/2023	Fluoride, total	0.284	mg/L
AW-15S	Compliance	E002	08/23/2023	Lead, total	0.00022 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Lithium, total	0.014 J	mg/L
AW-15S	Compliance	E002	08/23/2023	Mercury, total	0.00014 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Molybdenum, total	0.00270	mg/L
AW-15S	Compliance	E002	08/23/2023	Oxidation Reduction Potential	-29.0	mV
AW-15S	Compliance	E002	08/23/2023	pH (field)	6.9	SU
AW-15S	Compliance	E002	08/23/2023	Radium 226 + Radium 228, total	1.02	pCi/L
AW-15S	Compliance	E002	08/23/2023	Selenium, total	0.00074 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Specific Conductance @ 25C (field)	1,730	micromhos/cm
AW-15S	Compliance	E002	08/23/2023	Sulfate, total	570	mg/L
AW-15S	Compliance	E002	08/23/2023	Temperature	25.1	degrees C
AW-15S	Compliance	E002	08/23/2023	Thallium, total	0.00038 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Total Dissolved Solids	1,400	mg/L
AW-15S	Compliance	E002	08/23/2023	Turbidity, field	0 U	NTU
AW-16	Compliance	E002	08/21/2023	Antimony, total	0.00043 U	mg/L
AW-16	Compliance	E002	08/21/2023	Arsenic, total	0.00069 U	mg/L
AW-16	Compliance	E002	08/21/2023	Barium, total	1.10	mg/L
AW-16	Compliance	E002	08/21/2023	Beryllium, total	0.00059 U	mg/L
AW-16	Compliance	E002	08/21/2023	Boron, total	0.440	mg/L
AW-16	Compliance	E002	08/21/2023	Cadmium, total	0.00074 U	mg/L
AW-16	Compliance	E002	08/21/2023	Calcium, total	140	mg/L
AW-16	Compliance	E002	08/21/2023	Chloride, total	51.0	mg/L
AW-16	Compliance	E002	08/21/2023	Chromium, total	0.0028 U	mg/L
AW-16	Compliance	E002	08/21/2023	Cobalt, total	0.0015 J	mg/L

**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-16	Compliance	E002	08/21/2023	Dissolved Oxygen	0.120	mg/L
AW-16	Compliance	E002	08/21/2023	Fluoride, total	0.087 J	mg/L
AW-16	Compliance	E002	08/21/2023	Lead, total	0.00022 U	mg/L
AW-16	Compliance	E002	08/21/2023	Lithium, total	0.0320	mg/L
AW-16	Compliance	E002	08/21/2023	Mercury, total	0.000390 J	mg/L
AW-16	Compliance	E002	08/21/2023	Molybdenum, total	0.00074 U	mg/L
AW-16	Compliance	E002	08/21/2023	Oxidation Reduction Potential	-120	mV
AW-16	Compliance	E002	08/21/2023	pH (field)	7.0	SU
AW-16	Compliance	E002	08/21/2023	Radium 226 + Radium 228, total	3.95 J+	pCi/L
AW-16	Compliance	E002	08/21/2023	Selenium, total	0.00074 U	mg/L
AW-16	Compliance	E002	08/21/2023	Specific Conductance @ 25C (field)	1,970	micromhos/cm
AW-16	Compliance	E002	08/21/2023	Sulfate, total	0.61 J	mg/L
AW-16	Compliance	E002	08/21/2023	Temperature	20.8	degrees C
AW-16	Compliance	E002	08/21/2023	Thallium, total	0.00038 U	mg/L
AW-16	Compliance	E002	08/21/2023	Total Dissolved Solids	1,200	mg/L
AW-16	Compliance	E002	08/21/2023	Turbidity, field	9.70	NTU
AW-17	Compliance	E002	08/21/2023	Antimony, total	0.00043 U	mg/L
AW-17	Compliance	E002	08/21/2023	Arsenic, total	0.00320	mg/L
AW-17	Compliance	E002	08/21/2023	Barium, total	1.00	mg/L
AW-17	Compliance	E002	08/21/2023	Beryllium, total	0.00059 U	mg/L
AW-17	Compliance	E002	08/21/2023	Boron, total	0.410	mg/L
AW-17	Compliance	E002	08/21/2023	Cadmium, total	0.00074 U	mg/L
AW-17	Compliance	E002	08/21/2023	Calcium, total	110	mg/L
AW-17	Compliance	E002	08/21/2023	Chloride, total	54.0	mg/L
AW-17	Compliance	E002	08/21/2023	Chromium, total	0.0028 U	mg/L
AW-17	Compliance	E002	08/21/2023	Cobalt, total	0.00220	mg/L
AW-17	Compliance	E002	08/21/2023	Dissolved Oxygen	1.30	mg/L
AW-17	Compliance	E002	08/21/2023	Fluoride, total	0.074 J	mg/L
AW-17	Compliance	E002	08/21/2023	Lead, total	0.00077 J	mg/L
AW-17	Compliance	E002	08/21/2023	Lithium, total	0.0340	mg/L
AW-17	Compliance	E002	08/21/2023	Mercury, total	0.000410	mg/L
AW-17	Compliance	E002	08/21/2023	Molybdenum, total	0.00074 J	mg/L
AW-17	Compliance	E002	08/21/2023	Oxidation Reduction Potential	-106	mV
AW-17	Compliance	E002	08/21/2023	pH (field)	7.0	SU
AW-17	Compliance	E002	08/21/2023	Radium 226 + Radium 228, total	2.64 J+	pCi/L
AW-17	Compliance	E002	08/21/2023	Selenium, total	0.00074 U	mg/L
AW-17	Compliance	E002	08/21/2023	Specific Conductance @ 25C (field)	1,620	micromhos/cm
AW-17	Compliance	E002	08/21/2023	Sulfate, total	0.22 J	mg/L
AW-17	Compliance	E002	08/21/2023	Temperature	25.1	degrees C
AW-17	Compliance	E002	08/21/2023	Thallium, total	0.00038 U	mg/L
AW-17	Compliance	E002	08/21/2023	Total Dissolved Solids	930	mg/L
AW-17	Compliance	E002	08/21/2023	Turbidity, field	140	NTU
AW-18	Compliance	E002	08/22/2023	Antimony, total	0.00043 U	mg/L
AW-18	Compliance	E002	08/22/2023	Arsenic, total	0.00260	mg/L
AW-18	Compliance	E002	08/22/2023	Barium, total	1.30	mg/L
AW-18	Compliance	E002	08/22/2023	Beryllium, total	0.00059 U	mg/L



**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-18	Compliance	E002	08/22/2023	Boron, total	1.20	mg/L
AW-18	Compliance	E002	08/22/2023	Cadmium, total	0.00074 U	mg/L
AW-18	Compliance	E002	08/22/2023	Calcium, total	130	mg/L
AW-18	Compliance	E002	08/22/2023	Chloride, total	91.0	mg/L
AW-18	Compliance	E002	08/22/2023	Chromium, total	0.0028 U	mg/L
AW-18	Compliance	E002	08/22/2023	Cobalt, total	0.00087 J	mg/L
AW-18	Compliance	E002	08/22/2023	Dissolved Oxygen	1.00	mg/L
AW-18	Compliance	E002	08/22/2023	Fluoride, total	0.196 J	mg/L
AW-18	Compliance	E002	08/22/2023	Lead, total	0.00039 J	mg/L
AW-18	Compliance	E002	08/22/2023	Lithium, total	0.0250	mg/L
AW-18	Compliance	E002	08/22/2023	Mercury, total	0.00014 U	mg/L
AW-18	Compliance	E002	08/22/2023	Molybdenum, total	0.00320	mg/L
AW-18	Compliance	E002	08/22/2023	Oxidation Reduction Potential	-119	mV
AW-18	Compliance	E002	08/22/2023	pH (field)	6.6	SU
AW-18	Compliance	E002	08/22/2023	Radium 226 + Radium 228, total	6.06	pCi/L
AW-18	Compliance	E002	08/22/2023	Selenium, total	0.00074 U	mg/L
AW-18	Compliance	E002	08/22/2023	Specific Conductance @ 25C (field)	1,730	micromhos/cm
AW-18	Compliance	E002	08/22/2023	Sulfate, total	6.90	mg/L
AW-18	Compliance	E002	08/22/2023	Temperature	19.0	degrees C
AW-18	Compliance	E002	08/22/2023	Thallium, total	0.00038 U	mg/L
AW-18	Compliance	E002	08/22/2023	Total Dissolved Solids	850	mg/L
AW-18	Compliance	E002	08/22/2023	Turbidity, field	29.3	NTU
AW-19	Compliance	E002	08/22/2023	Antimony, total	0.00043 U	mg/L
AW-19	Compliance	E002	08/22/2023	Arsenic, total	0.0120	mg/L
AW-19	Compliance	E002	08/22/2023	Barium, total	0.200	mg/L
AW-19	Compliance	E002	08/22/2023	Beryllium, total	0.00059 U	mg/L
AW-19	Compliance	E002	08/22/2023	Boron, total	2.90	mg/L
AW-19	Compliance	E002	08/22/2023	Cadmium, total	0.00074 U	mg/L
AW-19	Compliance	E002	08/22/2023	Calcium, total	120	mg/L
AW-19	Compliance	E002	08/22/2023	Chloride, total	79.0	mg/L
AW-19	Compliance	E002	08/22/2023	Chromium, total	0.0028 U	mg/L
AW-19	Compliance	E002	08/22/2023	Cobalt, total	0.0011 J	mg/L
AW-19	Compliance	E002	08/22/2023	Dissolved Oxygen	0.960	mg/L
AW-19	Compliance	E002	08/22/2023	Fluoride, total	0.313	mg/L
AW-19	Compliance	E002	08/22/2023	Lead, total	0.00088 J	mg/L
AW-19	Compliance	E002	08/22/2023	Lithium, total	0.012 J	mg/L
AW-19	Compliance	E002	08/22/2023	Mercury, total	0.00014 U	mg/L
AW-19	Compliance	E002	08/22/2023	Molybdenum, total	0.00360	mg/L
AW-19	Compliance	E002	08/22/2023	Oxidation Reduction Potential	-57.0	mV
AW-19	Compliance	E002	08/22/2023	pH (field)	6.5	SU
AW-19	Compliance	E002	08/22/2023	Radium 226 + Radium 228, total	1.75	pCi/L
AW-19	Compliance	E002	08/22/2023	Selenium, total	0.00074 U	mg/L
AW-19	Compliance	E002	08/22/2023	Specific Conductance @ 25C (field)	1,050	micromhos/cm
AW-19	Compliance	E002	08/22/2023	Sulfate, total	55.0	mg/L
AW-19	Compliance	E002	08/22/2023	Temperature	20.0	degrees C
AW-19	Compliance	E002	08/22/2023	Thallium, total	0.00038 U	mg/L

**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-19	Compliance	E002	08/22/2023	Total Dissolved Solids	680	mg/L
AW-19	Compliance	E002	08/22/2023	Turbidity, field	24.6	NTU
AW-21	Compliance	E002	08/22/2023	Antimony, total	0.0012 J	mg/L
AW-21	Compliance	E002	08/22/2023	Arsenic, total	0.00069 U	mg/L
AW-21	Compliance	E002	08/22/2023	Barium, total	0.0580	mg/L
AW-21	Compliance	E002	08/22/2023	Beryllium, total	0.00059 U	mg/L
AW-21	Compliance	E002	08/22/2023	Boron, total	12.0	mg/L
AW-21	Compliance	E002	08/22/2023	Cadmium, total	0.00074 U	mg/L
AW-21	Compliance	E002	08/22/2023	Calcium, total	120	mg/L
AW-21	Compliance	E002	08/22/2023	Chloride, total	83.0	mg/L
AW-21	Compliance	E002	08/22/2023	Chromium, total	0.0028 U	mg/L
AW-21	Compliance	E002	08/22/2023	Cobalt, total	0.00056 J	mg/L
AW-21	Compliance	E002	08/22/2023	Dissolved Oxygen	7.70	mg/L
AW-21	Compliance	E002	08/22/2023	Fluoride, total	0.303	mg/L
AW-21	Compliance	E002	08/22/2023	Lead, total	0.00022 U	mg/L
AW-21	Compliance	E002	08/22/2023	Lithium, total	0.0064 J	mg/L
AW-21	Compliance	E002	08/22/2023	Mercury, total	0.00014 U	mg/L
AW-21	Compliance	E002	08/22/2023	Molybdenum, total	0.0290	mg/L
AW-21	Compliance	E002	08/22/2023	Oxidation Reduction Potential	130	mV
AW-21	Compliance	E002	08/22/2023	pH (field)	6.5	SU
AW-21	Compliance	E002	08/22/2023	Radium 226 + Radium 228, total	0.936 J+	pCi/L
AW-21	Compliance	E002	08/22/2023	Selenium, total	0.00380	mg/L
AW-21	Compliance	E002	08/22/2023	Specific Conductance @ 25C (field)	1,050	micromhos/cm
AW-21	Compliance	E002	08/22/2023	Sulfate, total	280	mg/L
AW-21	Compliance	E002	08/22/2023	Temperature	18.6	degrees C
AW-21	Compliance	E002	08/22/2023	Thallium, total	0.00038 U	mg/L
AW-21	Compliance	E002	08/22/2023	Total Dissolved Solids	820	mg/L
AW-21	Compliance	E002	08/22/2023	Turbidity, field	15.0	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 3, 2023**  
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	E002	Antimony, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AP07S	PMP	E002	Arsenic, total	mg/L	02/10/21 - 08/28/23	11	82	CI around median	0.001	0.0300	Background	No Exceedance
AP07S	PMP	E002	Barium, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	0.0778	2.07	Background	No Exceedance
AP07S	PMP	E002	Beryllium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AP07S	PMP	E002	Boron, total	mg/L	02/10/21 - 08/28/23	11	0	CB around linear reg	6.34	2	Standard	Exceedance
AP07S	PMP	E002	Cadmium, total	mg/L	02/10/21 - 08/28/23	11	82	CI around median	0.001	0.005	Standard	No Exceedance
AP07S	PMP	E002	Chloride, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	73.7	200	Standard	No Exceedance
AP07S	PMP	E002	Chromium, total	mg/L	02/10/21 - 08/28/23	11	64	CI around median	0.004	0.1	Standard	No Exceedance
AP07S	PMP	E002	Cobalt, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	0.00235	0.0280	Background	No Exceedance
AP07S	PMP	E002	Fluoride, total	mg/L	02/10/21 - 08/28/23	11	73	CB around T-S line	-1.69	4.0	Standard	No Exceedance
AP07S	PMP	E002	Lead, total	mg/L	02/10/21 - 08/28/23	11	54	CI around median	0.001	0.0330	Background	No Exceedance
AP07S	PMP	E002	Lithium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AP07S	PMP	E002	Mercury, total	mg/L	02/10/21 - 08/28/23	11	91	CI around median	0.0002	0.002	Standard	No Exceedance
AP07S	PMP	E002	Molybdenum, total	mg/L	02/10/21 - 08/28/23	11	46	CI around median	0.001	0.1	Standard	No Exceedance
AP07S	PMP	E002	pH (field)	SU	02/10/21 - 08/28/23	11	0	CI around mean	6.5/6.9	6.3/9.0	Background/Standard	No Exceedance
AP07S	PMP	E002	Radium 226 + Radium 228, total	pCi/L	02/10/21 - 08/28/23	11	0	CI around mean	0.535	9.60	Background	No Exceedance
AP07S	PMP	E002	Selenium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AP07S	PMP	E002	Sulfate, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	204	400	Standard	No Exceedance
AP07S	PMP	E002	Thallium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AP07S	PMP	E002	Total Dissolved Solids	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	783	1,200	Standard	No Exceedance
AW-01	PMP	E002	Antimony, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-01	PMP	E002	Arsenic, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	-0.000517	0.0300	Background	No Exceedance
AW-01	PMP	E002	Barium, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	0.101	2.07	Background	No Exceedance
AW-01	PMP	E002	Beryllium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-01	PMP	E002	Boron, total	mg/L	11/18/22 - 08/22/23	6	0	CI around median (Last Sample, n<7)	0.092	2	Standard	No Exceedance
AW-01	PMP	E002	Cadmium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-01	PMP	E002	Chloride, total	mg/L	11/18/22 - 08/22/23	6	0	CI around median (Last Sample, n<7)	12	200	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**  
 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	E002	Chromium, total	mg/L	11/18/22 - 08/22/23	6	83	CI around median (Last Sample, n<7)	0.004	0.1	Standard	No Exceedance
AW-01	PMP	E002	Cobalt, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	0.0025	0.0280	Background	No Exceedance
AW-01	PMP	E002	Fluoride, total	mg/L	11/18/22 - 08/22/23	6	50	CI around mean	0.245	4.0	Standard	No Exceedance
AW-01	PMP	E002	Lead, total	mg/L	11/18/22 - 08/22/23	6	83	CI around median (Last Sample, n<7)	0.001	0.0330	Background	No Exceedance
AW-01	PMP	E002	Lithium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-01	PMP	E002	Mercury, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-01	PMP	E002	Molybdenum, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	0.00212	0.1	Standard	No Exceedance
AW-01	PMP	E002	pH (field)	SU	11/18/22 - 08/22/23	6	0	CI around mean	6.6/7.2	6.3/9.0	Background/Standard	No Exceedance
AW-01	PMP	E002	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 08/22/23	6	0	CI around mean	-0.466	9.60	Background	No Exceedance
AW-01	PMP	E002	Selenium, total	mg/L	11/18/22 - 08/22/23	6	83	CI around median (Last Sample, n<7)	0.001	0.05	Standard	No Exceedance
AW-01	PMP	E002	Sulfate, total	mg/L	11/18/22 - 08/22/23	6	0	CI around median (Last Sample, n<7)	52	400	Standard	No Exceedance
AW-01	PMP	E002	Thallium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-01	PMP	E002	Total Dissolved Solids	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	708	1,200	Standard	No Exceedance
AW-05	UA	E002	Antimony, total	mg/L	11/09/15 - 08/28/23	15	93	Most recent sample	0.003	0.006	Standard	No Exceedance
AW-05	UA	E002	Arsenic, total	mg/L	11/09/15 - 08/28/23	15	0	CI around geomean	0.00393	0.0300	Background	No Exceedance
AW-05	UA	E002	Barium, total	mg/L	11/09/15 - 08/28/23	15	0	CI around mean	0.142	2.07	Background	No Exceedance
AW-05	UA	E002	Beryllium, total	mg/L	11/09/15 - 08/28/23	14	86	CI around median	0.001	0.004	Standard	No Exceedance
AW-05	UA	E002	Boron, total	mg/L	11/09/15 - 08/28/23	16	0	CB around T-S line	2.16	2	Standard	Exceedance
AW-05	UA	E002	Cadmium, total	mg/L	11/09/15 - 08/28/23	15	87	CI around median	0.001	0.005	Standard	No Exceedance
AW-05	UA	E002	Chloride, total	mg/L	11/09/15 - 08/28/23	16	0	CB around linear reg	-173	200	Standard	No Exceedance
AW-05	UA	E002	Chromium, total	mg/L	11/09/15 - 08/28/23	15	33	CI around geomean	0.00583	0.1	Standard	No Exceedance
AW-05	UA	E002	Cobalt, total	mg/L	11/09/15 - 08/28/23	15	20	CI around geomean	0.00348	0.0280	Background	No Exceedance
AW-05	UA	E002	Fluoride, total	mg/L	11/09/15 - 08/28/23	16	50	CI around median	0.25	4.0	Standard	No Exceedance
AW-05	UA	E002	Lead, total	mg/L	11/09/15 - 08/28/23	14	36	CI around geomean	0.00168	0.0330	Background	No Exceedance
AW-05	UA	E002	Lithium, total	mg/L	11/09/15 - 08/28/23	15	27	CI around geomean	0.0212	0.0710	Background	No Exceedance
AW-05	UA	E002	Mercury, total	mg/L	11/09/15 - 08/28/23	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
AW-05	UA	E002	Molybdenum, total	mg/L	11/09/15 - 08/28/23	15	0	CI around mean	0.00206	0.1	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**  
 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	E002	pH (field)	SU	11/09/15 - 08/28/23	16	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-05	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 08/28/23	15	0	CI around mean	0.673	9.60	Background	No Exceedance
AW-05	UA	E002	Selenium, total	mg/L	11/09/15 - 08/28/23	15	47	CI around median	0.001	0.05	Standard	No Exceedance
AW-05	UA	E002	Sulfate, total	mg/L	11/09/15 - 08/28/23	16	0	CI around geomean	288	400	Standard	No Exceedance
AW-05	UA	E002	Thallium, total	mg/L	11/09/15 - 08/28/23	14	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-05	UA	E002	Total Dissolved Solids	mg/L	11/09/15 - 08/28/23	16	0	CI around geomean	1,010	1,200	Standard	No Exceedance
AW-06	UA	E002	Antimony, total	mg/L	11/10/15 - 08/28/23	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-06	UA	E002	Arsenic, total	mg/L	11/10/15 - 08/28/23	21	0	CI around geomean	0.00295	0.0300	Background	No Exceedance
AW-06	UA	E002	Barium, total	mg/L	11/10/15 - 08/28/23	21	0	CI around median	0.18	2.07	Background	No Exceedance
AW-06	UA	E002	Beryllium, total	mg/L	11/10/15 - 08/28/23	21	86	CI around median	0.001	0.004	Standard	No Exceedance
AW-06	UA	E002	Boron, total	mg/L	11/10/15 - 08/28/23	22	0	CB around linear reg	0.0495	2	Standard	No Exceedance
AW-06	UA	E002	Cadmium, total	mg/L	11/10/15 - 08/28/23	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-06	UA	E002	Chloride, total	mg/L	11/10/15 - 08/28/23	22	0	CB around T-S line	-0.546	200	Standard	No Exceedance
AW-06	UA	E002	Chromium, total	mg/L	11/10/15 - 08/28/23	21	52	CI around median	0.004	0.1	Standard	No Exceedance
AW-06	UA	E002	Cobalt, total	mg/L	11/10/15 - 08/28/23	21	57	CI around median	0.002	0.0280	Background	No Exceedance
AW-06	UA	E002	Fluoride, total	mg/L	11/10/15 - 08/28/23	22	9	CB around T-S line	0.215	4.0	Standard	No Exceedance
AW-06	UA	E002	Lead, total	mg/L	11/10/15 - 08/28/23	21	38	CB around T-S line	-0.00334	0.0330	Background	No Exceedance
AW-06	UA	E002	Lithium, total	mg/L	11/10/15 - 08/28/23	21	43	CI around mean	0.0134	0.0710	Background	No Exceedance
AW-06	UA	E002	Mercury, total	mg/L	11/10/15 - 08/28/23	16	94	CI around median	0.0002	0.002	Standard	No Exceedance
AW-06	UA	E002	Molybdenum, total	mg/L	11/10/15 - 08/28/23	21	0	CI around mean	0.00481	0.1	Standard	No Exceedance
AW-06	UA	E002	pH (field)	SU	11/10/15 - 08/28/23	22	0	CI around median	7.1/7.2	6.3/9.0	Background/Standard	No Exceedance
AW-06	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 08/28/23	21	0	CI around mean	0.679	9.60	Background	No Exceedance
AW-06	UA	E002	Selenium, total	mg/L	11/10/15 - 08/28/23	21	71	CI around median	0.001	0.05	Standard	No Exceedance
AW-06	UA	E002	Sulfate, total	mg/L	11/10/15 - 08/28/23	22	0	CB around linear reg	17.4	400	Standard	No Exceedance
AW-06	UA	E002	Thallium, total	mg/L	11/10/15 - 08/28/23	16	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-06	UA	E002	Total Dissolved Solids	mg/L	11/10/15 - 08/28/23	22	0	CI around mean	507	1,200	Standard	No Exceedance
AW-09	UA	E002	Antimony, total	mg/L	11/10/15 - 08/29/23	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance



**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**  
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	E002	Arsenic, total	mg/L	11/10/15 - 08/29/23	21	14	CI around mean	0.0101	0.0300	Background	No Exceedance
AW-09	UA	E002	Barium, total	mg/L	11/10/15 - 08/29/23	21	0	CI around geomean	0.278	2.07	Background	No Exceedance
AW-09	UA	E002	Beryllium, total	mg/L	11/10/15 - 08/29/23	21	81	CB around T-S line	-0.000697	0.004	Standard	No Exceedance
AW-09	UA	E002	Boron, total	mg/L	11/10/15 - 08/29/23	22	0	CB around linear reg	-0.155	2	Standard	No Exceedance
AW-09	UA	E002	Cadmium, total	mg/L	11/10/15 - 08/29/23	16	88	CI around median	0.001	0.005	Standard	No Exceedance
AW-09	UA	E002	Chloride, total	mg/L	11/10/15 - 08/29/23	22	0	CI around median	27	200	Standard	No Exceedance
AW-09	UA	E002	Chromium, total	mg/L	11/10/15 - 08/29/23	21	52	CB around T-S line	-0.0626	0.1	Standard	No Exceedance
AW-09	UA	E002	Cobalt, total	mg/L	11/10/15 - 08/29/23	21	5	CB around T-S line	-0.0344	0.0280	Background	No Exceedance
AW-09	UA	E002	Fluoride, total	mg/L	11/10/15 - 08/29/23	22	59	CB around T-S line	0.182	4.0	Standard	No Exceedance
AW-09	UA	E002	Lead, total	mg/L	11/10/15 - 08/29/23	21	43	CI around median	0.001	0.0330	Background	No Exceedance
AW-09	UA	E002	Lithium, total	mg/L	11/10/15 - 08/29/23	21	29	CB around T-S line	-0.0734	0.0710	Background	No Exceedance
AW-09	UA	E002	Mercury, total	mg/L	11/10/15 - 08/29/23	16	94	CI around median	0.0002	0.002	Standard	No Exceedance
AW-09	UA	E002	Molybdenum, total	mg/L	11/10/15 - 08/29/23	21	0	CI around mean	0.0137	0.1	Standard	No Exceedance
AW-09	UA	E002	pH (field)	SU	11/10/15 - 08/29/23	22	0	CI around mean	6.8/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-09	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 08/29/23	21	0	CI around median	0.729	9.60	Background	No Exceedance
AW-09	UA	E002	Selenium, total	mg/L	11/10/15 - 08/29/23	21	62	CB around T-S line	-0.00292	0.05	Standard	No Exceedance
AW-09	UA	E002	Sulfate, total	mg/L	11/10/15 - 08/29/23	22	50	CB around linear reg	-14.6	400	Standard	No Exceedance
AW-09	UA	E002	Thallium, total	mg/L	11/10/15 - 08/29/23	16	94	CI around median	0.001	0.002	Standard	No Exceedance
AW-09	UA	E002	Total Dissolved Solids	mg/L	11/10/15 - 08/29/23	22	0	CB around T-S line	731	1,200	Standard	No Exceedance
AW-10	UA	E002	Antimony, total	mg/L	11/09/15 - 08/28/23	17	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-10	UA	E002	Arsenic, total	mg/L	11/09/15 - 08/28/23	22	0	CI around geomean	0.0078	0.0300	Background	No Exceedance
AW-10	UA	E002	Barium, total	mg/L	11/09/15 - 08/28/23	22	0	CI around median	0.98	2.07	Background	No Exceedance
AW-10	UA	E002	Beryllium, total	mg/L	11/09/15 - 08/28/23	22	77	CI around median	0.001	0.004	Standard	No Exceedance
AW-10	UA	E002	Boron, total	mg/L	11/09/15 - 08/28/23	23	0	CI around mean	0.462	2	Standard	No Exceedance
AW-10	UA	E002	Cadmium, total	mg/L	11/09/15 - 08/28/23	17	94	CI around median	0.001	0.005	Standard	No Exceedance
AW-10	UA	E002	Chloride, total	mg/L	11/09/15 - 08/28/23	23	0	CI around mean	87.2	200	Standard	No Exceedance
AW-10	UA	E002	Chromium, total	mg/L	11/09/15 - 08/28/23	22	36	CI around median	0.004	0.1	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**  
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	E002	Cobalt, total	mg/L	11/09/15 - 08/28/23	22	4	CI around geomean	0.00352	0.0280	Background	No Exceedance
AW-10	UA	E002	Fluoride, total	mg/L	11/09/15 - 08/28/23	23	96	CI around median	0.25	4.0	Standard	No Exceedance
AW-10	UA	E002	Lead, total	mg/L	11/09/15 - 08/28/23	22	14	CI around geomean	0.00182	0.0330	Background	No Exceedance
AW-10	UA	E002	Lithium, total	mg/L	11/09/15 - 08/28/23	22	0	CB around T-S line	-0.0418	0.0710	Background	No Exceedance
AW-10	UA	E002	Mercury, total	mg/L	11/09/15 - 08/28/23	17	94	CI around median	0.0002	0.002	Standard	No Exceedance
AW-10	UA	E002	Molybdenum, total	mg/L	11/09/15 - 08/28/23	22	27	CB around T-S line	-0.000829	0.1	Standard	No Exceedance
AW-10	UA	E002	pH (field)	SU	11/09/15 - 08/28/23	24	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-10	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 08/28/23	22	0	CI around mean	2.27	9.60	Background	No Exceedance
AW-10	UA	E002	Selenium, total	mg/L	11/09/15 - 08/28/23	22	64	CB around T-S line	-0.000131	0.05	Standard	No Exceedance
AW-10	UA	E002	Sulfate, total	mg/L	11/09/15 - 08/28/23	23	78	CB around T-S line	0.0142	400	Standard	No Exceedance
AW-10	UA	E002	Thallium, total	mg/L	11/09/15 - 08/28/23	17	94	CI around median	0.001	0.002	Standard	No Exceedance
AW-10	UA	E002	Total Dissolved Solids	mg/L	11/09/15 - 08/28/23	23	0	CB around T-S line	1,100	1,200	Standard	No Exceedance
AW-11	UA	E002	Antimony, total	mg/L	11/09/15 - 08/28/23	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-11	UA	E002	Arsenic, total	mg/L	11/09/15 - 08/28/23	21	0	CI around mean	0.0095	0.0300	Background	No Exceedance
AW-11	UA	E002	Barium, total	mg/L	11/09/15 - 08/28/23	21	0	CI around geomean	0.871	2.07	Background	No Exceedance
AW-11	UA	E002	Beryllium, total	mg/L	11/09/15 - 08/28/23	21	76	CI around median	0.001	0.004	Standard	No Exceedance
AW-11	UA	E002	Boron, total	mg/L	11/09/15 - 08/28/23	22	0	CI around geomean	0.22	2	Standard	No Exceedance
AW-11	UA	E002	Cadmium, total	mg/L	11/09/15 - 08/28/23	16	81	CI around median	0.001	0.005	Standard	No Exceedance
AW-11	UA	E002	Chloride, total	mg/L	11/09/15 - 08/28/23	22	0	CI around mean	31.1	200	Standard	No Exceedance
AW-11	UA	E002	Chromium, total	mg/L	11/09/15 - 08/28/23	21	48	CB around T-S line	-0.0235	0.1	Standard	No Exceedance
AW-11	UA	E002	Cobalt, total	mg/L	11/09/15 - 08/28/23	21	24	CB around T-S line	-0.00755	0.0280	Background	No Exceedance
AW-11	UA	E002	Fluoride, total	mg/L	11/09/15 - 08/28/23	22	86	CI around median	0.25	4.0	Standard	No Exceedance
AW-11	UA	E002	Lead, total	mg/L	11/09/15 - 08/28/23	21	38	CB around T-S line	-0.0111	0.0330	Background	No Exceedance
AW-11	UA	E002	Lithium, total	mg/L	11/09/15 - 08/28/23	21	14	CB around T-S line	-0.0266	0.0710	Background	No Exceedance
AW-11	UA	E002	Mercury, total	mg/L	11/09/15 - 08/28/23	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-11	UA	E002	Molybdenum, total	mg/L	11/09/15 - 08/28/23	21	5	CB around linear reg	-0.00143	0.1	Standard	No Exceedance
AW-11	UA	E002	pH (field)	SU	11/09/15 - 08/28/23	22	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 3, 2023**  
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	E002	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 08/28/23	21	0	CI around geomean	1.5	9.60	Background	No Exceedance
AW-11	UA	E002	Selenium, total	mg/L	11/09/15 - 08/28/23	21	67	CI around median	0.001	0.05	Standard	No Exceedance
AW-11	UA	E002	Sulfate, total	mg/L	11/09/15 - 08/28/23	22	64	CB around T-S line	0.11	400	Standard	No Exceedance
AW-11	UA	E002	Thallium, total	mg/L	11/09/15 - 08/28/23	16	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-11	UA	E002	Total Dissolved Solids	mg/L	11/09/15 - 08/28/23	22	0	CB around T-S line	954	1,200	Standard	No Exceedance
AW-14	UA	E002	Antimony, total	mg/L	02/11/21 - 08/23/23	10	90	CI around median	0.003	0.006	Standard	No Exceedance
AW-14	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/23/23	10	0	CI around mean	0.00692	0.0300	Background	No Exceedance
AW-14	UA	E002	Barium, total	mg/L	02/11/21 - 08/23/23	10	0	CB around linear reg	0.684	2.07	Background	No Exceedance
AW-14	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-14	UA	E002	Boron, total	mg/L	02/11/21 - 08/23/23	10	0	CI around mean	0.171	2	Standard	No Exceedance
AW-14	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-14	UA	E002	Chloride, total	mg/L	02/11/21 - 08/23/23	10	0	CI around geomean	22.5	200	Standard	No Exceedance
AW-14	UA	E002	Chromium, total	mg/L	02/11/21 - 08/23/23	10	90	CI around median	0.004	0.1	Standard	No Exceedance
AW-14	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/23/23	10	10	CB around linear reg	-0.00363	0.0280	Background	No Exceedance
AW-14	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/23/23	10	80	CI around median	0.25	4.0	Standard	No Exceedance
AW-14	UA	E002	Lead, total	mg/L	02/11/21 - 08/23/23	10	70	CI around median	0.001	0.0330	Background	No Exceedance
AW-14	UA	E002	Lithium, total	mg/L	02/11/21 - 08/23/23	10	50	CI around median	0.02	0.0710	Background	No Exceedance
AW-14	UA	E002	Mercury, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-14	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/23/23	10	30	CI around geomean	0.00126	0.1	Standard	No Exceedance
AW-14	UA	E002	pH (field)	SU	02/11/21 - 08/23/23	10	0	CI around mean	6.8/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-14	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/23/23	10	0	CI around mean	1.91	9.60	Background	No Exceedance
AW-14	UA	E002	Selenium, total	mg/L	02/11/21 - 08/23/23	10	90	CI around median	0.001	0.05	Standard	No Exceedance
AW-14	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/23/23	10	20	CI around geomean	1.36	400	Standard	No Exceedance
AW-14	UA	E002	Thallium, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-14	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/23/23	10	0	CI around mean	902	1,200	Standard	No Exceedance
AW-15	UA	E002	Antimony, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-15	UA	E002	Arsenic, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	0.00175	0.0300	Background	No Exceedance



**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**  
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	E002	Barium, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	1.59	2.07	Background	No Exceedance
AW-15	UA	E002	Beryllium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-15	UA	E002	Boron, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	0.325	2	Standard	No Exceedance
AW-15	UA	E002	Cadmium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-15	UA	E002	Chloride, total	mg/L	02/12/21 - 08/23/23	8	0	CB around linear reg	22.3	200	Standard	No Exceedance
AW-15	UA	E002	Chromium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-15	UA	E002	Cobalt, total	mg/L	02/12/21 - 08/23/23	8	88	CI around median	0.002	0.0280	Background	No Exceedance
AW-15	UA	E002	Fluoride, total	mg/L	02/12/21 - 08/23/23	8	75	CI around median	0.25	4.0	Standard	No Exceedance
AW-15	UA	E002	Lead, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-15	UA	E002	Lithium, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	0.0278	0.0710	Background	No Exceedance
AW-15	UA	E002	Mercury, total	mg/L	02/12/21 - 08/23/23	8	88	CI around median	0.0002	0.002	Standard	No Exceedance
AW-15	UA	E002	Molybdenum, total	mg/L	02/12/21 - 08/23/23	8	75	CI around median	0.001	0.1	Standard	No Exceedance
AW-15	UA	E002	pH (field)	SU	02/12/21 - 08/23/23	7	0	CI around mean	6.6/6.8	6.3/9.0	Background/Standard	No Exceedance
AW-15	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 08/23/23	8	0	CI around mean	2.58	9.60	Background	No Exceedance
AW-15	UA	E002	Selenium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-15	UA	E002	Sulfate, total	mg/L	02/12/21 - 08/23/23	8	88	Most recent sample	1	400	Standard	No Exceedance
AW-15	UA	E002	Thallium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-15	UA	E002	Total Dissolved Solids	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	871	1,200	Standard	No Exceedance
AW-15S	PMP	E002	Antimony, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-15S	PMP	E002	Arsenic, total	mg/L	02/12/21 - 08/23/23	11	54	CI around median	0.001	0.0300	Background	No Exceedance
AW-15S	PMP	E002	Barium, total	mg/L	02/12/21 - 08/23/23	11	0	CB around T-S line	-0.232	2.07	Background	No Exceedance
AW-15S	PMP	E002	Beryllium, total	mg/L	02/12/21 - 08/23/23	11	91	CI around median	0.001	0.004	Standard	No Exceedance
AW-15S	PMP	E002	Boron, total	mg/L	02/12/21 - 08/23/23	11	0	CI around mean	5.46	2	Standard	Exceedance
AW-15S	PMP	E002	Cadmium, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-15S	PMP	E002	Chloride, total	mg/L	02/12/21 - 08/23/23	11	0	CB around linear reg	20.9	200	Standard	No Exceedance
AW-15S	PMP	E002	Chromium, total	mg/L	02/12/21 - 08/23/23	11	91	CI around median	0.004	0.1	Standard	No Exceedance
AW-15S	PMP	E002	Cobalt, total	mg/L	02/12/21 - 08/23/23	11	91	CI around median	0.002	0.0280	Background	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**  
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	E002	Fluoride, total	mg/L	02/12/21 - 08/23/23	11	36	CI around median	0.25	4.0	Standard	No Exceedance
AW-15S	PMP	E002	Lead, total	mg/L	02/12/21 - 08/23/23	11	82	CI around median	0.001	0.0330	Background	No Exceedance
AW-15S	PMP	E002	Lithium, total	mg/L	02/12/21 - 08/23/23	11	82	CI around median	0.02	0.0710	Background	No Exceedance
AW-15S	PMP	E002	Mercury, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-15S	PMP	E002	Molybdenum, total	mg/L	02/12/21 - 08/23/23	11	0	CB around linear reg	0.00194	0.1	Standard	No Exceedance
AW-15S	PMP	E002	pH (field)	SU	02/12/21 - 08/23/23	11	0	CI around mean	6.7/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-15S	PMP	E002	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 08/23/23	10	0	CI around mean	0.278	9.60	Background	No Exceedance
AW-15S	PMP	E002	Selenium, total	mg/L	02/12/21 - 08/23/23	11	46	CI around geomean	0.000977	0.05	Standard	No Exceedance
AW-15S	PMP	E002	Sulfate, total	mg/L	02/12/21 - 08/23/23	11	0	CB around linear reg	503	400	Standard	Exceedance
AW-15S	PMP	E002	Thallium, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-15S	PMP	E002	Total Dissolved Solids	mg/L	02/12/21 - 08/23/23	11	0	CI around mean	1,180	1,200	Standard	No Exceedance
AW-16	UA	E002	Antimony, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-16	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/21/23	11	18	CI around mean	0.00119	0.0300	Background	No Exceedance
AW-16	UA	E002	Barium, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	1.17	2.07	Background	No Exceedance
AW-16	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-16	UA	E002	Boron, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	0.466	2	Standard	No Exceedance
AW-16	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-16	UA	E002	Chloride, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	49.7	200	Standard	No Exceedance
AW-16	UA	E002	Chromium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-16	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-16	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.25	4.0	Standard	No Exceedance
AW-16	UA	E002	Lead, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-16	UA	E002	Lithium, total	mg/L	02/11/21 - 08/21/23	11	0	CI around median	0.032	0.0710	Background	No Exceedance
AW-16	UA	E002	Mercury, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	0.0002	0.002	Standard	No Exceedance
AW-16	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.1	Standard	No Exceedance
AW-16	UA	E002	pH (field)	SU	02/11/21 - 08/21/23	11	0	CI around mean	6.6/6.9	6.3/9.0	Background/Standard	No Exceedance
AW-16	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/21/23	11	0	CI around mean	3.99	9.60	Background	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**  
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	E002	Selenium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-16	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	1	400	Standard	No Exceedance
AW-16	UA	E002	Thallium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-16	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	1,050	1,200	Standard	No Exceedance
AW-17	UA	E002	Antimony, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-17	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	0.00449	0.0300	Background	No Exceedance
AW-17	UA	E002	Barium, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	1.04	2.07	Background	No Exceedance
AW-17	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-17	UA	E002	Boron, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	0.413	2	Standard	No Exceedance
AW-17	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-17	UA	E002	Chloride, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	52	200	Standard	No Exceedance
AW-17	UA	E002	Chromium, total	mg/L	02/11/21 - 08/21/23	11	64	CI around median	0.004	0.1	Standard	No Exceedance
AW-17	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/21/23	11	0	CI around geomean	0.00214	0.0280	Background	No Exceedance
AW-17	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	0.25	4.0	Standard	No Exceedance
AW-17	UA	E002	Lead, total	mg/L	02/11/21 - 08/21/23	11	64	CI around median	0.001	0.0330	Background	No Exceedance
AW-17	UA	E002	Lithium, total	mg/L	02/11/21 - 08/21/23	11	0	CB around linear reg	-0.00453	0.0710	Background	No Exceedance
AW-17	UA	E002	Mercury, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	0.0002	0.002	Standard	No Exceedance
AW-17	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/21/23	11	36	CB around linear reg	-0.000279	0.1	Standard	No Exceedance
AW-17	UA	E002	pH (field)	SU	02/11/21 - 08/21/23	11	0	CI around median	6.6/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-17	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/21/23	11	0	CI around mean	2.59	9.60	Background	No Exceedance
AW-17	UA	E002	Selenium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-17	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	1	400	Standard	No Exceedance
AW-17	UA	E002	Thallium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-17	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	811	1,200	Standard	No Exceedance
AW-18	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-18	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.00319	0.0300	Background	No Exceedance
AW-18	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	0.983	2.07	Background	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**  
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	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-18	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.683	2	Standard	No Exceedance
AW-18	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-18	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	77.2	200	Standard	No Exceedance
AW-18	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	11	91	CI around median	0.004	0.1	Standard	No Exceedance
AW-18	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	11	73	CI around median	0.002	0.0280	Background	No Exceedance
AW-18	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	11	46	CI around median	0.25	4.0	Standard	No Exceedance
AW-18	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	11	82	CI around median	0.001	0.0330	Background	No Exceedance
AW-18	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	-0.032	0.0710	Background	No Exceedance
AW-18	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-18	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	-0.0148	0.1	Standard	No Exceedance
AW-18	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	11	0	CI around mean	6.7/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-18	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	11	0	CI around mean	2.11	9.60	Background	No Exceedance
AW-18	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	11	91	CI around median	0.001	0.05	Standard	No Exceedance
AW-18	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	4.08	400	Standard	No Exceedance
AW-18	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-18	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	779	1,200	Standard	No Exceedance
AW-19	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-19	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.0113	0.0300	Background	No Exceedance
AW-19	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	0.18	2.07	Background	No Exceedance
AW-19	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-19	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	2.5	2	Standard	Exceedance
AW-19	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-19	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	76.8	200	Standard	No Exceedance
AW-19	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	11	73	CI around median	0.004	0.1	Standard	No Exceedance
AW-19	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	11	73	CI around median	0.002	0.0280	Background	No Exceedance
AW-19	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.288	4.0	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**  
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	E002	Lead, total	mg/L	02/11/21 - 08/22/23	11	46	CI around median	0.001	0.0330	Background	No Exceedance
AW-19	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	11	64	CI around median	0.02	0.0710	Background	No Exceedance
AW-19	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-19	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	0.0034	0.1	Standard	No Exceedance
AW-19	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	11	0	CI around mean	6.7/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-19	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	11	0	CI around mean	0.36	9.60	Background	No Exceedance
AW-19	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-19	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	47.7	400	Standard	No Exceedance
AW-19	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-19	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	549	1,200	Standard	No Exceedance
AW-21	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-21	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	11	18	CI around mean	0.00102	0.0300	Background	No Exceedance
AW-21	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.0609	2.07	Background	No Exceedance
AW-21	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-21	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	10.5	2	Standard	Exceedance
AW-21	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-21	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	83	200	Standard	No Exceedance
AW-21	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-21	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-21	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	0.107	4.0	Standard	No Exceedance
AW-21	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	11	91	CI around median	0.001	0.0330	Background	No Exceedance
AW-21	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-21	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-21	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.0162	0.1	Standard	No Exceedance
AW-21	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	11	0	CI around mean	6.9/7.5	6.3/9.0	Background/Standard	No Exceedance
AW-21	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	11	0	CI around mean	0.391	9.60	Background	No Exceedance
AW-21	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	11	82	CI around median	0.001	0.05	Standard	No Exceedance

**TABLE 2.**  
**COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**

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	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	230	400	Standard	No Exceedance
AW-21	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-21	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	645	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)



**TABLE 3.  
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Event	Date	Parameter	Result	Unit
APW-01	E002	08/23/2023	Antimony, total	0.00043 U	mg/L
APW-01	E002	08/23/2023	Arsenic, total	0.00650	mg/L
APW-01	E002	08/23/2023	Barium, total	0.0690	mg/L
APW-01	E002	08/23/2023	Beryllium, total	0.00059 U	mg/L
APW-01	E002	08/23/2023	Boron, total	1.00	mg/L
APW-01	E002	08/23/2023	Cadmium, total	0.00074 U	mg/L
APW-01	E002	08/23/2023	Calcium, total	170	mg/L
APW-01	E002	08/23/2023	Chloride, total	130	mg/L
APW-01	E002	08/23/2023	Chromium, total	0.0028 U	mg/L
APW-01	E002	08/23/2023	Cobalt, total	0.00096 J	mg/L
APW-01	E002	08/23/2023	Dissolved Oxygen	2.80	mg/L
APW-01	E002	08/23/2023	Fluoride, total	0.179 J	mg/L
APW-01	E002	08/23/2023	Lead, total	0.00084 J	mg/L
APW-01	E002	08/23/2023	Lithium, total	0.0096 J	mg/L
APW-01	E002	08/23/2023	Mercury, total	0.00014 U	mg/L
APW-01	E002	08/23/2023	Molybdenum, total	0.00130	mg/L
APW-01	E002	08/23/2023	Oxidation Reduction Potential	-83.0	mV
APW-01	E002	08/23/2023	pH (field)	6.5	SU
APW-01	E002	08/23/2023	Radium 226 + Radium 228, total	0.737	pCi/L
APW-01	E002	08/23/2023	Selenium, total	0.00074 U	mg/L
APW-01	E002	08/23/2023	Specific Conductance @ 25C (field)	1,250	micromhos/cm
APW-01	E002	08/23/2023	Sulfate, total	300	mg/L
APW-01	E002	08/23/2023	Temperature	25.6	degrees C
APW-01	E002	08/23/2023	Thallium, total	0.00038 U	mg/L
APW-01	E002	08/23/2023	Total Dissolved Solids	1,000	mg/L
APW-01	E002	08/23/2023	Turbidity, field	16.9	NTU
AW-20	E002	08/22/2023	Antimony, total	0.00043 U	mg/L
AW-20	E002	08/22/2023	Arsenic, total	0.0110	mg/L
AW-20	E002	08/22/2023	Barium, total	0.140	mg/L
AW-20	E002	08/22/2023	Beryllium, total	0.00059 U	mg/L
AW-20	E002	08/22/2023	Boron, total	3.40	mg/L
AW-20	E002	08/22/2023	Cadmium, total	0.00074 U	mg/L
AW-20	E002	08/22/2023	Calcium, total	160	mg/L
AW-20	E002	08/22/2023	Chloride, total	88.0	mg/L
AW-20	E002	08/22/2023	Chromium, total	0.0028 U	mg/L
AW-20	E002	08/22/2023	Cobalt, total	0.0012 J	mg/L
AW-20	E002	08/22/2023	Dissolved Oxygen	0.540	mg/L
AW-20	E002	08/22/2023	Fluoride, total	0.285	mg/L
AW-20	E002	08/22/2023	Lead, total	0.00022 U	mg/L
AW-20	E002	08/22/2023	Lithium, total	0.014 J	mg/L
AW-20	E002	08/22/2023	Mercury, total	0.00014 U	mg/L
AW-20	E002	08/22/2023	Molybdenum, total	0.00240	mg/L
AW-20	E002	08/22/2023	Oxidation Reduction Potential	-60.0	mV
AW-20	E002	08/22/2023	pH (field)	6.2	SU
AW-20	E002	08/22/2023	Radium 226 + Radium 228, total	2.04	pCi/L
AW-20	E002	08/22/2023	Selenium, total	0.00074 U	mg/L

**TABLE 3.  
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Event	Date	Parameter	Result	Unit
AW-20	E002	08/22/2023	Specific Conductance @ 25C (field)	1,310	micromhos/cm
AW-20	E002	08/22/2023	Sulfate, total	59.0	mg/L
AW-20	E002	08/22/2023	Temperature	17.4	degrees C
AW-20	E002	08/22/2023	Thallium, total	0.00038 U	mg/L
AW-20	E002	08/22/2023	Total Dissolved Solids	850	mg/L
AW-20	E002	08/22/2023	Turbidity, field	18.6	NTU
AW-23	E002	08/23/2023	Antimony, total	0.00043 U	mg/L
AW-23	E002	08/23/2023	Arsenic, total	0.00069 U	mg/L
AW-23	E002	08/23/2023	Barium, total	0.0450	mg/L
AW-23	E002	08/23/2023	Beryllium, total	0.00059 U	mg/L
AW-23	E002	08/23/2023	Boron, total	0.550	mg/L
AW-23	E002	08/23/2023	Cadmium, total	0.00074 U	mg/L
AW-23	E002	08/23/2023	Calcium, total	140	mg/L
AW-23	E002	08/23/2023	Chloride, total	49.0	mg/L
AW-23	E002	08/23/2023	Chromium, total	0.0028 U	mg/L
AW-23	E002	08/23/2023	Cobalt, total	0.0012 J	mg/L
AW-23	E002	08/23/2023	Dissolved Oxygen	0.440	mg/L
AW-23	E002	08/23/2023	Fluoride, total	0.223 J	mg/L
AW-23	E002	08/23/2023	Lead, total	0.00035 J	mg/L
AW-23	E002	08/23/2023	Lithium, total	0.013 J	mg/L
AW-23	E002	08/23/2023	Mercury, total	0.00014 U	mg/L
AW-23	E002	08/23/2023	Molybdenum, total	0.00074 U	mg/L
AW-23	E002	08/23/2023	Oxidation Reduction Potential	-34.0	mV
AW-23	E002	08/23/2023	pH (field)	6.8	SU
AW-23	E002	08/23/2023	Radium 226 + Radium 228, total	0.803	pCi/L
AW-23	E002	08/23/2023	Selenium, total	0.00074 U	mg/L
AW-23	E002	08/23/2023	Specific Conductance @ 25C (field)	1,260	micromhos/cm
AW-23	E002	08/23/2023	Sulfate, total	230	mg/L
AW-23	E002	08/23/2023	Temperature	21.2	degrees C
AW-23	E002	08/23/2023	Thallium, total	0.00038 U	mg/L
AW-23	E002	08/23/2023	Total Dissolved Solids	730	mg/L
AW-23	E002	08/23/2023	Turbidity, field	133	NTU
EMW-05	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
EMW-05	E002	08/28/2023	Arsenic, total	0.00079 J	mg/L
EMW-05	E002	08/28/2023	Barium, total	0.0620	mg/L
EMW-05	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
EMW-05	E002	08/28/2023	Boron, total	1.00	mg/L
EMW-05	E002	08/28/2023	Cadmium, total	0.00074 U	mg/L
EMW-05	E002	08/28/2023	Calcium, total	190	mg/L
EMW-05	E002	08/28/2023	Chloride, total	18.0	mg/L
EMW-05	E002	08/28/2023	Chromium, total	0.0028 U	mg/L
EMW-05	E002	08/28/2023	Cobalt, total	0.00049 J	mg/L
EMW-05	E002	08/28/2023	Dissolved Oxygen	1.00	mg/L
EMW-05	E002	08/28/2023	Fluoride, total	0.206 J	mg/L
EMW-05	E002	08/28/2023	Lead, total	0.00042 J	mg/L
EMW-05	E002	08/28/2023	Lithium, total	0.0087 J	mg/L



**TABLE 3.  
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Event	Date	Parameter	Result	Unit
EMW-05	E002	08/28/2023	Mercury, total	0.00014 U	mg/L
EMW-05	E002	08/28/2023	Molybdenum, total	0.00130 J+	mg/L
EMW-05	E002	08/28/2023	Oxidation Reduction Potential	52.0	mV
EMW-05	E002	08/28/2023	pH (field)	6.8	SU
EMW-05	E002	08/28/2023	Radium 226 + Radium 228, total	0.499	pCi/L
EMW-05	E002	08/28/2023	Selenium, total	0.00074 U	mg/L
EMW-05	E002	08/28/2023	Specific Conductance @ 25C (field)	1,340	micromhos/cm
EMW-05	E002	08/28/2023	Sulfate, total	130	mg/L
EMW-05	E002	08/28/2023	Temperature	19.4	degrees C
EMW-05	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
EMW-05	E002	08/28/2023	Total Dissolved Solids	900	mg/L
EMW-05	E002	08/28/2023	Turbidity, field	70.5	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 4.**  
**SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**

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
APW-01	UA	E002	Antimony, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW-01	UA	E002	Arsenic, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.00182	0.0300	Background	No Exceedance
APW-01	UA	E002	Barium, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.0284	2.07	Background	No Exceedance
APW-01	UA	E002	Beryllium, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW-01	UA	E002	Boron, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.567	2	Standard	No Exceedance
APW-01	UA	E002	Cadmium, total	mg/L	06/17/21 - 08/23/23	5	80	CI around median (Last Sample, n<7)	0.001	0.005	Standard	No Exceedance
APW-01	UA	E002	Chloride, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	97.2	200	Standard	No Exceedance
APW-01	UA	E002	Chromium, total	mg/L	06/17/21 - 08/23/23	5	40	CI around mean	-0.000941	0.1	Standard	No Exceedance
APW-01	UA	E002	Cobalt, total	mg/L	06/17/21 - 08/23/23	5	40	CI around mean	-0.001	0.0280	Background	No Exceedance
APW-01	UA	E002	Fluoride, total	mg/L	06/17/21 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.25	4.0	Standard	No Exceedance
APW-01	UA	E002	Lead, total	mg/L	06/17/21 - 08/23/23	5	40	CI around mean	-0.00407	0.0330	Background	No Exceedance
APW-01	UA	E002	Lithium, total	mg/L	06/17/21 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.02	0.0710	Background	No Exceedance
APW-01	UA	E002	Mercury, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW-01	UA	E002	Molybdenum, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.000943	0.1	Standard	No Exceedance
APW-01	UA	E002	pH (field)	SU	06/17/21 - 08/23/23	5	0	CI around mean	6.5/7.2	6.3/9.0	Background/Standard	No Exceedance
APW-01	UA	E002	Radium 226 + Radium 228, total	pCi/L	06/17/21 - 08/23/23	4	0	CI around mean	-1.26	9.60	Background	No Exceedance
APW-01	UA	E002	Selenium, total	mg/L	06/17/21 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.001	0.05	Standard	No Exceedance
APW-01	UA	E002	Sulfate, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	279	400	Standard	No Exceedance
APW-01	UA	E002	Thallium, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW-01	UA	E002	Total Dissolved Solids	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	779	1,200	Standard	No Exceedance
AW-20	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-20	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	0.011	0.0300	Background	No Exceedance
AW-20	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	0.128	2.07	Background	No Exceedance
AW-20	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-20	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	1.9	2	Standard	No Exceedance
AW-20	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-20	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	85.7	200	Standard	No Exceedance

**TABLE 4.**  
**SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**  
 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-20	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	7	86	CI around median	0.004	0.1	Standard	No Exceedance
AW-20	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	7	57	CI around median	0.002	0.0280	Background	No Exceedance
AW-20	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	7	14	CI around mean	0.189	4.0	Standard	No Exceedance
AW-20	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	7	71	CI around median	0.001	0.0330	Background	No Exceedance
AW-20	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	7	71	CI around median	0.02	0.0710	Background	No Exceedance
AW-20	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-20	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	0.00231	0.1	Standard	No Exceedance
AW-20	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	7	0	CI around mean	6.4/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-20	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	6	0	CI around mean	0.17	9.60	Background	No Exceedance
AW-20	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-20	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	38.2	400	Standard	No Exceedance
AW-20	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-20	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	737	1,200	Standard	No Exceedance
AW-23	UA	E002	Antimony, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-23	UA	E002	Arsenic, total	mg/L	11/21/22 - 08/23/23	5	80	CI around median (Last Sample, n<7)	0.001	0.0300	Background	No Exceedance
AW-23	UA	E002	Barium, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	0.02	2.07	Background	No Exceedance
AW-23	UA	E002	Beryllium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-23	UA	E002	Boron, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	0.458	2	Standard	No Exceedance
AW-23	UA	E002	Cadmium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-23	UA	E002	Chloride, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	38.8	200	Standard	No Exceedance
AW-23	UA	E002	Chromium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-23	UA	E002	Cobalt, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-23	UA	E002	Fluoride, total	mg/L	11/21/22 - 08/23/23	5	40	CI around mean	0.231	4.0	Standard	No Exceedance
AW-23	UA	E002	Lead, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-23	UA	E002	Lithium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-23	UA	E002	Mercury, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-23	UA	E002	Molybdenum, total	mg/L	11/21/22 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.001	0.1	Standard	No Exceedance

**TABLE 4.**  
**SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**  
 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-23	UA	E002	pH (field)	SU	11/21/22 - 08/23/23	5	0	CI around mean	6.6/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-23	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/21/22 - 08/23/23	4	0	CI around mean	-0.112	9.60	Background	No Exceedance
AW-23	UA	E002	Selenium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-23	UA	E002	Sulfate, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	179	400	Standard	No Exceedance
AW-23	UA	E002	Thallium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-23	UA	E002	Total Dissolved Solids	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	701	1,200	Standard	No Exceedance
EMW-05	UA	E002	Antimony, total	mg/L	11/18/22 - 08/28/23	5	100	All ND - Last	0.003	0.006	Standard	No Exceedance
EMW-05	UA	E002	Arsenic, total	mg/L	11/18/22 - 08/28/23	5	20	CI around median (Last Sample, n<7)	0.001	0.0300	Background	No Exceedance
EMW-05	UA	E002	Barium, total	mg/L	11/18/22 - 08/28/23	5	0	CI around median (Last Sample, n<7)	0.062	2.07	Background	No Exceedance
EMW-05	UA	E002	Beryllium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.001	0.004	Standard	No Exceedance
EMW-05	UA	E002	Boron, total	mg/L	11/18/22 - 08/28/23	5	0	CI around mean	0.289	2	Standard	No Exceedance
EMW-05	UA	E002	Cadmium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.001	0.005	Standard	No Exceedance
EMW-05	UA	E002	Chloride, total	mg/L	11/18/22 - 08/28/23	5	0	CI around mean	15.5	200	Standard	No Exceedance
EMW-05	UA	E002	Chromium, total	mg/L	11/18/22 - 08/28/23	5	60	CI around median (Last Sample, n<7)	0.004	0.1	Standard	No Exceedance
EMW-05	UA	E002	Cobalt, total	mg/L	11/18/22 - 08/28/23	5	40	CI around median (Last Sample, n<7)	0.002	0.0280	Background	No Exceedance
EMW-05	UA	E002	Fluoride, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.25	4.0	Standard	No Exceedance
EMW-05	UA	E002	Lead, total	mg/L	11/18/22 - 08/28/23	5	60	CI around median (Last Sample, n<7)	0.001	0.0330	Background	No Exceedance
EMW-05	UA	E002	Lithium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.02	0.0710	Background	No Exceedance
EMW-05	UA	E002	Mercury, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.0002	0.002	Standard	No Exceedance
EMW-05	UA	E002	Molybdenum, total	mg/L	11/18/22 - 08/28/23	5	0	CI around mean	0.000417	0.1	Standard	No Exceedance
EMW-05	UA	E002	pH (field)	SU	12/15/22 - 08/28/23	4	0	CI around mean	6.2/7.3	6.3/9.0	Background/Standard	No Exceedance
EMW-05	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 08/28/23	4	0	CI around mean	-0.288	9.60	Background	No Exceedance
EMW-05	UA	E002	Selenium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.001	0.05	Standard	No Exceedance
EMW-05	UA	E002	Sulfate, total	mg/L	11/18/22 - 08/28/23	5	0	CI around median (Last Sample, n<7)	130	400	Standard	No Exceedance
EMW-05	UA	E002	Thallium, total	mg/L	11/18/22 - 08/28/23	5	100	All ND - Last	0.001	0.002	Standard	No Exceedance
EMW-05	UA	E002	Total Dissolved Solids	mg/L	11/18/22 - 08/28/23	5	20	CI around median (Last Sample, n<7)	900	1,200	Standard	No Exceedance

**TABLE 4.**  
**SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

**Notes:**

Compliance Result:

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

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

GWPS = Groundwater Protection Standard

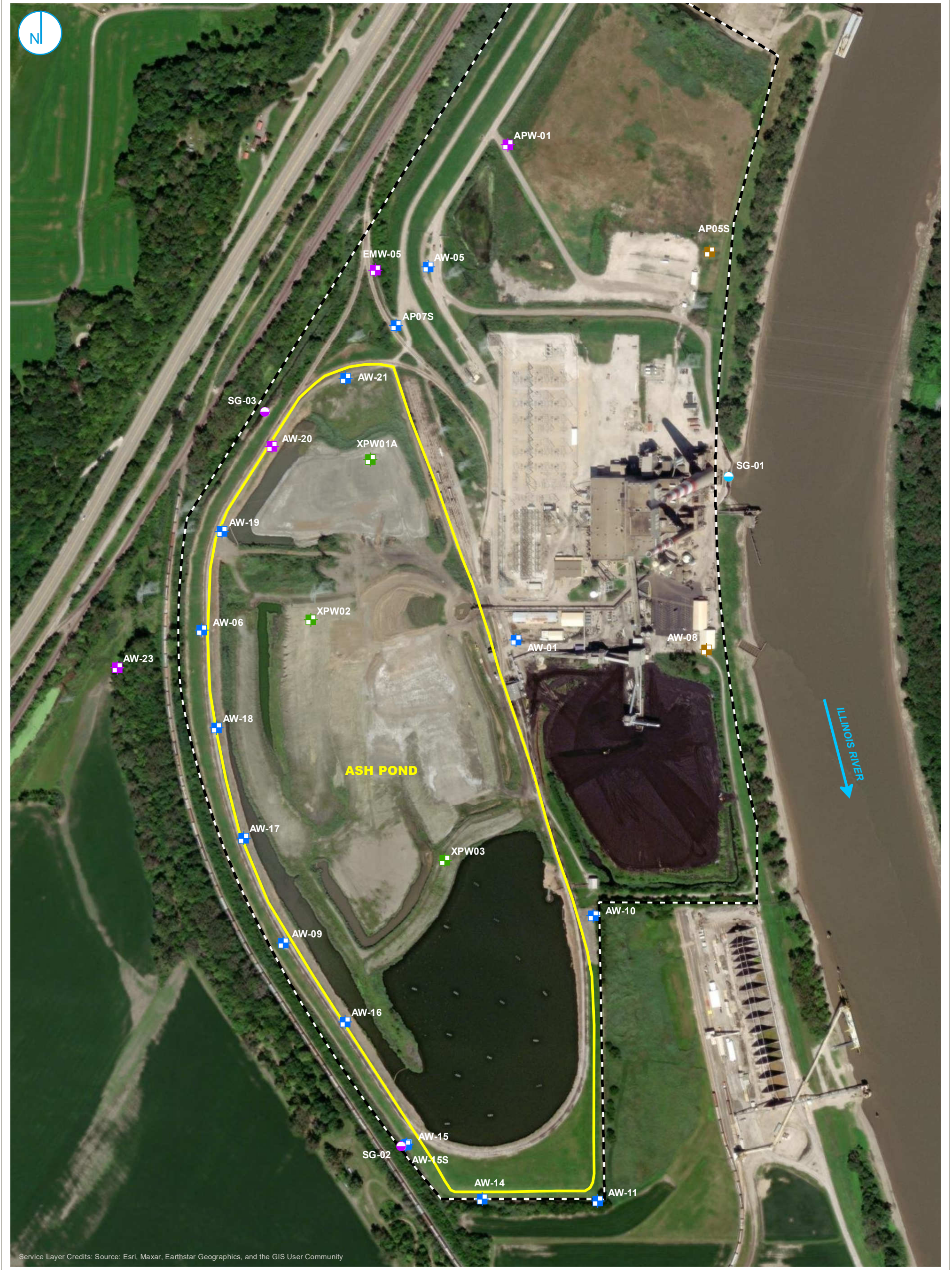
GWPS Source:

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

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

## FIGURES





Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

- COMPLIANCE WELL
- BACKGROUND WELL
- SUPPLEMENTAL WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- SUPPLEMENTAL STAFF GAGE

- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

### 35 I.A.C. § 845 GROUNDWATER MONITORING NETWORK

FIGURE 1

0 200 400 Feet

**ASH POND**  
EDWARDS POWER PLANT  
BARTONVILLE, ILLINOIS

RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.





## **ATTACHMENTS**



**ATTACHMENT A  
GROUNDWATER ELEVATION DATA  
QUARTER 3, 2023**

**ATTACHMENT A.  
GROUNDWATER ELEVATION DATA - QUARTER 3, 2023**

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	08/21/2023	5.90	437.37
AP07S	Compliance	08/21/2023	25.01	436.07
AW-01	Compliance	08/21/2023	10.33	454.09
AW-05	Compliance	08/21/2023	8.79	434.58
AW-06	Compliance	08/21/2023	27.58	433.98
AW-08	Background	08/21/2023	24.84	437.69
AW-09	Compliance	08/21/2023	26.81	434.64
AW-10	Compliance	08/28/2023	[2.35]	[437.58]
AW-11	Compliance	08/21/2023	6.32	433.54
AW-14	Compliance	08/21/2023	7.07	432.33
AW-15	Compliance	08/21/2023	8.68	432.82
AW-15S	Compliance	08/21/2023	9.82	430.88
AW-16	Compliance	08/21/2023	25.21	436.58
AW-17	Compliance	08/21/2023	26.14	435.96
AW-18	Compliance	08/21/2023	27.79	434.85
AW-19	Compliance	08/21/2023	14.19	446.54
AW-21	Compliance	08/21/2023	17.41	443.19
XPW01A	Water Level	08/21/2023	11.86	452.30
XPW02	Water Level	08/21/2023	20.77	453.01
XPW03	Water Level	08/21/2023	17.20	448.84
SG-01	Water Level	08/21/2023	NA	435.00

**Notes:**

Only wells with groundwater elevations measured are included.

BMP = below measuring point

Bracketing [ ] indicates that the measurement was obtained outside of the 24-hour period from initiation of depth to groundwater measurements.

NA = not available/not applicable

NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B  
LABORATORY REPORTS AND FIELD DATA SHEETS  
QUARTER 3, 2023**



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

October 14, 2023

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](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in black ink that reads "Diane Billings". The signature is written in a cursive, flowing style.

Diane Billings  
Project Manager

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

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Work Order      GH04348

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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    GH04553

---

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    GH04842

---

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

---

Work Order    GH05495

---

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

---

Work Order    GH05632

---

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:** GH04348-01  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	51	mg/L	Q4	08/22/23 13:37	10	10	08/22/23 19:26	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/22/23 12:39	1	1.0	08/22/23 18:28	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	25.21	Feet		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Dissolved oxygen, Field	0.12	mg/L		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Oxidation Reduction Potential	-120	mV		08/21/23 14:28	1	-500	08/21/23 14:28	FIELD	Field*
pH, Field Measured	6.96	pH Units		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Specific Conductance, Field Measured	1970	umhos/cm		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Temperature, Field Measured	20.8	°C		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Turbidity, Field Measured	9.70	NTU		08/21/23 14:28	1	0.00	08/21/23 14:28	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	1200	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		08/29/23 17:13	1	0.250	08/29/23 17:13	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1200	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 11:20	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Barium	1100	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Boron	440	ug/L		08/28/23 08:52	5	10	08/31/23 08:03	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Calcium	140	mg/L		08/28/23 08:52	5	0.20	08/29/23 11:20	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 11:20	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 11:20	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Magnesium	60	mg/L		08/28/23 08:52	5	0.10	08/29/23 11:20	TJJ	EPA 6020A
Mercury	0.39	ug/L		08/28/23 08:52	5	0.20	08/29/23 11:20	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Potassium	4.8	mg/L		08/28/23 08:52	5	0.10	08/29/23 11:20	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Sodium	240	mg/L	Q4	08/28/23 08:52	5	0.10	08/29/23 11:20	TJJ	EPA 6020A





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

### ANALYTICAL RESULTS

**Sample:** GH04348-01  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Lithium	32	ug/L		08/28/23 08:52	1	20	08/29/23 10:17	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH04348-02  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 16:01  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	54	mg/L		08/22/23 14:16	10	10	08/22/23 20:43	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/22/23 13:57	1	1.0	08/22/23 20:24	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	26.14	Feet		08/21/23 16:01	1		08/21/23 16:01	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		08/21/23 16:01	1		08/21/23 16:01	FIELD	Field*
Oxidation Reduction Potential	-106	mV		08/21/23 16:01	1	-500	08/21/23 16:01	FIELD	Field*
pH, Field Measured	6.95	pH Units		08/21/23 16:01	1		08/21/23 16:01	FIELD	Field*
Specific Conductance, Field Measured	1620	umhos/cm		08/21/23 16:01	1		08/21/23 16:01	FIELD	Field*
Temperature, Field Measured	25.1	°C		08/21/23 16:01	1		08/21/23 16:01	FIELD	Field*
Turbidity, Field Measured	140	NTU		08/21/23 16:01	1	0.00	08/21/23 16:01	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	890	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		08/29/23 17:15	1	0.250	08/29/23 17:15	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	930	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 11:31	TJJ	EPA 6020A
Arsenic	3.2	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Barium	1000	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Boron	410	ug/L		08/28/23 08:52	5	10	08/31/23 08:11	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Calcium	110	mg/L		08/28/23 08:52	5	0.20	08/29/23 11:31	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 11:31	TJJ	EPA 6020A
Cobalt	2.2	ug/L		08/28/23 08:52	5	2.0	08/29/23 11:31	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Magnesium	43	mg/L		08/28/23 08:52	5	0.10	08/29/23 11:31	TJJ	EPA 6020A
Mercury	0.41	ug/L		08/28/23 08:52	5	0.20	08/29/23 11:31	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Potassium	4.5	mg/L		08/28/23 08:52	5	0.10	08/29/23 11:31	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Sodium	210	mg/L		08/28/23 08:52	5	0.10	08/29/23 11:31	TJJ	EPA 6020A



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**ANALYTICAL RESULTS**

**Sample:** GH04348-02  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 16:01  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Lithium	34	ug/L		08/28/23 08:52	1	20	08/29/23 10:29	BRS	EPA 6010B

**Sample:** GH04348-03  
**Name:** XPW01A  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 15:15  
**Received:** 08/22/23 07:00

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

Depth, From Measuring Point	11.86	Feet		08/21/23 15:15	1		08/21/23 15:15	FIELD	Field*
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## ANALYTICAL RESULTS

**Sample:** GH04348-04  
**Name:** AW 16 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	50	mg/L		08/22/23 16:31	10	10	08/22/23 22:20	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/22/23 15:33	1	1.0	08/22/23 22:00	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	25.21	Feet		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Dissolved oxygen, Field	0.12	mg/L		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Oxidation Reduction Potential	-120	mV		08/21/23 14:28	1	-500	08/21/23 14:28	FIELD	Field*
pH, Field Measured	6.96	pH Units		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Specific Conductance, Field Measured	1970	umhos/cm		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Temperature, Field Measured	20.8	°C		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Turbidity, Field Measured	9.70	NTU		08/21/23 14:28	1	0.00	08/21/23 14:28	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	1100	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		08/29/23 17:17	1	0.250	08/29/23 17:17	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1200	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 11:39	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Barium	1100	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Boron	440	ug/L		08/28/23 08:52	5	10	08/31/23 08:17	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Calcium	140	mg/L		08/28/23 08:52	5	0.20	08/29/23 11:39	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 11:39	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 11:39	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Magnesium	58	mg/L		08/28/23 08:52	5	0.10	08/29/23 11:39	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 11:39	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Potassium	4.7	mg/L		08/28/23 08:52	5	0.10	08/29/23 11:39	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Sodium	230	mg/L		08/28/23 08:52	5	0.10	08/29/23 11:39	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GH04348-04  
**Name:** AW 16 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Lithium	34	ug/L		08/28/23 08:52	1	20	08/29/23 10:43	BRS	EPA 6010B

**Sample:** GH04348-05  
**Name:** XPW01A DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/21/23 15:15  
**Received:** 08/22/23 07:00

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

Depth, From Measuring Point	11.86	Feet		08/21/23 15:15	1		08/21/23 15:15	FIELD	Field*
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### ANALYTICAL RESULTS

**Sample:** GH04553-01  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	12	mg/L	Q3	08/23/23 12:22	5	5.0	08/23/23 12:22	CRD	EPA 300.0 REV 2.1
Sulfate	52	mg/L		08/25/23 02:39	10	10	08/25/23 02:39	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	10.28	Feet		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Dissolved oxygen, Field	0.51	mg/L		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Oxidation Reduction Potential	-95.0	mV		08/22/23 14:28	1	-500	08/22/23 14:28	FIELD	Field*
pH, Field Measured	6.64	pH Units		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Specific Conductance, Field Measured	1450	umhos/cm		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Temperature, Field Measured	24.7	°C		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Turbidity, Field Measured	8.50	NTU		08/22/23 14:28	1	0.00	08/22/23 14:28	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	760	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Fluoride	0.280	mg/L		08/30/23 18:00	1	0.250	08/30/23 18:00	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	830	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 11:47	TJJ	EPA 6020A
Arsenic	5.1	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Barium	130	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Boron	92	ug/L		08/28/23 08:52	5	10	08/31/23 08:23	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Calcium	190	mg/L		08/28/23 08:52	5	0.20	08/29/23 11:47	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 11:47	TJJ	EPA 6020A
Cobalt	3.8	ug/L		08/28/23 08:52	5	2.0	08/29/23 11:47	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Magnesium	79	mg/L		08/28/23 08:52	5	0.10	08/29/23 11:47	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 11:47	TJJ	EPA 6020A
Molybdenum	4.1	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Potassium	0.33	mg/L		08/28/23 08:52	5	0.10	08/29/23 11:47	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Sodium	17	mg/L		08/28/23 08:52	5	0.10	08/29/23 11:47	TJJ	EPA 6020A



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### ANALYTICAL RESULTS

**Sample:** GH04553-01  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 10:53	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH04553-02  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 12:57  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	79	mg/L		08/23/23 13:20	10	10	08/23/23 13:20	CRD	EPA 300.0 REV 2.1
Sulfate	55	mg/L		08/23/23 13:20	10	10	08/23/23 13:20	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	14.1	Feet		08/22/23 12:57	1		08/22/23 12:57	FIELD	Field*
Dissolved oxygen, Field	0.96	mg/L		08/22/23 12:57	1		08/22/23 12:57	FIELD	Field*
Oxidation Reduction Potential	-57.0	mV		08/22/23 12:57	1	-500	08/22/23 12:57	FIELD	Field*
pH, Field Measured	6.49	pH Units		08/22/23 12:57	1		08/22/23 12:57	FIELD	Field*
Specific Conductance, Field Measured	1050	umhos/cm		08/22/23 12:57	1		08/22/23 12:57	FIELD	Field*
Temperature, Field Measured	20.0	°C		08/22/23 12:57	1		08/22/23 12:57	FIELD	Field*
Turbidity, Field Measured	24.6	NTU		08/22/23 12:57	1	0.00	08/22/23 12:57	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	480	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Fluoride	0.313	mg/L		08/30/23 18:04	1	0.250	08/30/23 18:04	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	680	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 12:09	TJJ	EPA 6020A
Arsenic	12	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Barium	200	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 08:51	TJJ	EPA 6020A
Boron	2900	ug/L		08/28/23 08:52	5	10	08/31/23 08:51	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Calcium	120	mg/L		08/28/23 08:52	5	0.20	08/29/23 12:09	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 12:09	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 12:09	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Magnesium	55	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:09	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 12:09	TJJ	EPA 6020A
Molybdenum	3.6	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Potassium	1.0	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:09	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Sodium	52	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:09	TJJ	EPA 6020A



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### ANALYTICAL RESULTS

**Sample:** GH04553-02  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 12:57  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 10:57	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH04553-04  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 16:04  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	83	mg/L		08/23/23 15:35	50	50	08/23/23 15:35	CRD	EPA 300.0 REV 2.1
Fluoride	0.303	mg/L		08/23/23 14:18	1	0.250	08/23/23 14:18	CRD	EPA 300.0 REV 2.1
Sulfate	280	mg/L		08/23/23 15:35	50	50	08/23/23 15:35	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	17.47	Feet		08/22/23 16:04	1		08/22/23 16:04	FIELD	Field*
Dissolved oxygen, Field	7.7	mg/L		08/22/23 16:04	1		08/22/23 16:04	FIELD	Field*
Oxidation Reduction Potential	130	mV		08/22/23 16:04	1	-500	08/22/23 16:04	FIELD	Field*
pH, Field Measured	6.53	pH Units		08/22/23 16:04	1		08/22/23 16:04	FIELD	Field*
Specific Conductance, Field Measured	1050	umhos/cm		08/22/23 16:04	1		08/22/23 16:04	FIELD	Field*
Temperature, Field Measured	18.6	°C		08/22/23 16:04	1		08/22/23 16:04	FIELD	Field*
Turbidity, Field Measured	15.0	NTU		08/22/23 16:04	1	0.00	08/22/23 16:04	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	180	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	820	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 12:16	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Barium	58	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 16:22	TJJ	EPA 6020A
Boron	12000	ug/L		08/28/23 08:52	100	200	08/31/23 08:57	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Calcium	120	mg/L		08/28/23 08:52	5	0.20	08/29/23 12:16	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 12:16	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 12:16	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Magnesium	38	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:16	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 12:16	TJJ	EPA 6020A
Molybdenum	29	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Potassium	3.8	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:16	TJJ	EPA 6020A
Selenium	3.8	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Sodium	59	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:16	TJJ	EPA 6020A





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**ANALYTICAL RESULTS**

**Sample:** GH04553-04  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 16:04  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 11:12	BRS	EPA 6010B

**Sample:** GH04553-05  
**Name:** XPW02  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 15:57  
**Received:** 08/22/23 16:40

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

Depth, From Measuring Point	20.65	Feet		08/22/23 15:57	1		08/22/23 15:57	FIELD	Field*
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## ANALYTICAL RESULTS

**Sample:** GH04553-07  
**Name:** AW01 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	9.9	mg/L		08/23/23 17:31	5	5.0	08/23/23 17:31	CRD	EPA 300.0 REV 2.1
Sulfate	51	mg/L		08/23/23 17:51	50	50	08/23/23 17:51	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	10.28	Feet		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Dissolved oxygen, Field	0.51	mg/L		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Oxidation Reduction Potential	-95.0	mV		08/22/23 14:28	1	-500	08/22/23 14:28	FIELD	Field*
pH, Field Measured	6.64	pH Units		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Specific Conductance, Field Measured	1450	umhos/cm		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Temperature, Field Measured	24.7	°C		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Turbidity, Field Measured	8.50	NTU		08/22/23 14:28	1	0.00	08/22/23 14:28	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	740	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Fluoride	0.282	mg/L		08/30/23 18:07	1	0.250	08/30/23 18:07	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	820	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 12:36	TJJ	EPA 6020A
Arsenic	5.2	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Barium	130	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 09:06	TJJ	EPA 6020A
Boron	89	ug/L		08/28/23 08:52	5	10	08/31/23 09:06	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Calcium	190	mg/L		08/28/23 08:52	5	0.20	08/29/23 12:36	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 12:36	TJJ	EPA 6020A
Cobalt	3.9	ug/L		08/28/23 08:52	5	2.0	08/29/23 12:36	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Magnesium	84	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:36	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 12:36	TJJ	EPA 6020A
Molybdenum	3.4	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Potassium	0.33	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:36	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Sodium	18	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:36	TJJ	EPA 6020A



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**ANALYTICAL RESULTS**

**Sample:** GH04553-07  
**Name:** AW01 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 11:25	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH04553-08  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 11:11  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	91	mg/L		08/25/23 02:20	25	25	08/25/23 02:20	TMS	EPA 300.0 REV 2.1
Sulfate	6.9	mg/L		08/23/23 18:10	1	1.0	08/23/23 18:10	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	27.97	Feet		08/22/23 11:11	1		08/22/23 11:11	FIELD	Field*
Dissolved oxygen, Field	1.0	mg/L		08/22/23 11:11	1		08/22/23 11:11	FIELD	Field*
Oxidation Reduction Potential	-119	mV		08/22/23 11:11	1	-500	08/22/23 11:11	FIELD	Field*
pH, Field Measured	6.59	pH Units		08/22/23 11:11	1		08/22/23 11:11	FIELD	Field*
Specific Conductance, Field Measured	1730	umhos/cm		08/22/23 11:11	1		08/22/23 11:11	FIELD	Field*
Temperature, Field Measured	19.0	°C		08/22/23 11:11	1		08/22/23 11:11	FIELD	Field*
Turbidity, Field Measured	29.3	NTU		08/22/23 11:11	1	0.00	08/22/23 11:11	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	800	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		08/30/23 18:09	1	0.250	08/30/23 18:09	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	850	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 12:40	TJJ	EPA 6020A
Arsenic	2.6	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Barium	1300	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 09:08	TJJ	EPA 6020A
Boron	1200	ug/L		08/28/23 08:52	5	10	08/31/23 09:08	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Calcium	130	mg/L		08/28/23 08:52	5	0.20	08/29/23 12:40	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 12:40	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 12:40	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Magnesium	59	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:40	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 12:40	TJJ	EPA 6020A
Molybdenum	3.2	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Potassium	4.2	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:40	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Sodium	190	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:40	TJJ	EPA 6020A



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### ANALYTICAL RESULTS

**Sample:** GH04553-08  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 11:11  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Lithium	25	ug/L		08/28/23 08:52	1	20	08/29/23 11:34	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH04842-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 13:04  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	41	mg/L	Q4	08/24/23 11:29	10	10	08/24/23 11:29	TMS	EPA 300.0 REV 2.1
Sulfate	5.6	mg/L	Q3	08/24/23 10:31	1	1.0	08/24/23 10:31	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	6.07	Feet		08/23/23 13:04	1		08/23/23 13:04	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		08/23/23 13:04	1		08/23/23 13:04	FIELD	Field*
Oxidation Reduction Potential	-133	mV		08/23/23 13:04	1	-500	08/23/23 13:04	FIELD	Field*
pH, Field Measured	6.88	pH Units		08/23/23 13:04	1		08/23/23 13:04	FIELD	Field*
Specific Conductance, Field Measured	1490	umhos/cm		08/23/23 13:04	1		08/23/23 13:04	FIELD	Field*
Temperature, Field Measured	26.7	°C		08/23/23 13:04	1		08/23/23 13:04	FIELD	Field*
Turbidity, Field Measured	39.7	NTU		08/23/23 13:04	1	0.00	08/23/23 13:04	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	840	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		08/30/23 18:15	1	0.250	08/30/23 18:15	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	890	mg/L	B2, M	08/25/23 10:34	1	26	08/25/23 11:45	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 12:43	TJJ	EPA 6020A
Arsenic	1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Barium	830	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 09:11	TJJ	EPA 6020A
Boron	320	ug/L		08/28/23 08:52	5	10	08/31/23 09:11	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Calcium	100	mg/L		08/28/23 08:52	5	0.20	08/29/23 12:43	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 12:43	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 12:43	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Magnesium	46	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:43	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 12:43	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Potassium	3.8	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:43	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Sodium	180	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:43	TJJ	EPA 6020A





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### ANALYTICAL RESULTS

**Sample:** GH04842-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 13:04  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Lithium	27	ug/L		08/28/23 08:52	1	20	08/29/23 11:38	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH04842-03  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 15:53  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	24	mg/L		08/24/23 13:06	5	5.0	08/24/23 13:06	TMS	EPA 300.0 REV 2.1
Sulfate	1.8	mg/L		08/24/23 12:46	1	1.0	08/24/23 12:46	TMS	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	7.06	Feet		08/23/23 15:53	1		08/23/23 15:53	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		08/23/23 15:53	1		08/23/23 15:53	FIELD	Field*
Oxidation Reduction Potential	-132	mV		08/23/23 15:53	1	-500	08/23/23 15:53	FIELD	Field*
pH, Field Measured	6.99	pH Units		08/23/23 15:53	1		08/23/23 15:53	FIELD	Field*
Specific Conductance, Field Measured	1720	umhos/cm		08/23/23 15:53	1		08/23/23 15:53	FIELD	Field*
Temperature, Field Measured	23.2	°C		08/23/23 15:53	1		08/23/23 15:53	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		08/23/23 15:53	1	0.00	08/23/23 15:53	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	1100	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		08/30/23 18:17	1	0.250	08/30/23 18:17	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	960	mg/L	B2	08/25/23 10:34	1	26	08/25/23 11:45	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 13:14	TJJ	EPA 6020A
Arsenic	5.2	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Barium	840	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 09:17	TJJ	EPA 6020A
Boron	180	ug/L		08/28/23 08:52	5	10	08/31/23 09:17	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Calcium	170	mg/L		08/28/23 08:52	5	0.20	08/29/23 13:14	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 13:14	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 13:14	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Magnesium	69	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:14	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 13:14	TJJ	EPA 6020A
Molybdenum	1.4	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Potassium	2.4	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:14	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Sodium	150	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:14	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GH04842-03  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 15:53  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 11:46	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH04842-04  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 12:55  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	34	mg/L		08/24/23 14:23	10	10	08/24/23 14:23	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/24/23 13:25	1	1.0	08/24/23 13:25	TMS	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	9	Feet		08/23/23 12:55	1		08/23/23 12:55	FIELD	Field*
Dissolved oxygen, Field	0.45	mg/L		08/23/23 12:55	1		08/23/23 12:55	FIELD	Field*
Oxidation Reduction Potential	-140	mV		08/23/23 12:55	1	-500	08/23/23 12:55	FIELD	Field*
pH, Field Measured	6.78	pH Units		08/23/23 12:55	1		08/23/23 12:55	FIELD	Field*
Specific Conductance, Field Measured	2050	umhos/cm		08/23/23 12:55	1		08/23/23 12:55	FIELD	Field*
Temperature, Field Measured	19.5	°C		08/23/23 12:55	1		08/23/23 12:55	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		08/23/23 12:55	1	0.00	08/23/23 12:55	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	1000	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		08/30/23 18:18	1	0.250	08/30/23 18:18	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1100	mg/L	B2	08/25/23 10:34	1	26	08/25/23 11:45	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 13:18	TJJ	EPA 6020A
Arsenic	1.3	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Barium	1800	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 09:40	TJJ	EPA 6020A
Boron	370	ug/L		08/28/23 08:52	5	10	08/31/23 09:40	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Calcium	140	mg/L		08/28/23 08:52	5	0.20	08/29/23 13:18	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 13:18	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 13:18	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Magnesium	59	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:18	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 13:18	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Potassium	4.2	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:18	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Sodium	200	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:18	TJJ	EPA 6020A



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### ANALYTICAL RESULTS

**Sample:** GH04842-04  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 12:55  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Lithium	28	ug/L		08/28/23 08:52	1	20	08/29/23 11:50	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH04842-05  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 14:25  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	31	mg/L		08/24/23 15:02	10	10	08/24/23 15:02	TMS	EPA 300.0 REV 2.1
Sulfate	570	mg/L		08/24/23 15:22	100	100	08/24/23 15:22	TMS	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	9.75	Feet		08/23/23 14:25	1		08/23/23 14:25	FIELD	Field*
Dissolved oxygen, Field	0.35	mg/L		08/23/23 14:25	1		08/23/23 14:25	FIELD	Field*
Oxidation Reduction Potential	-29.0	mV		08/23/23 14:25	1	-500	08/23/23 14:25	FIELD	Field*
pH, Field Measured	6.92	pH Units		08/23/23 14:25	1		08/23/23 14:25	FIELD	Field*
Specific Conductance, Field Measured	1730	umhos/cm		08/23/23 14:25	1		08/23/23 14:25	FIELD	Field*
Temperature, Field Measured	25.1	°C		08/23/23 14:25	1		08/23/23 14:25	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		08/23/23 14:25	1	0.00	08/23/23 14:25	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	510	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Fluoride	0.284	mg/L		08/30/23 18:21	1	0.250	08/30/23 18:21	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1400	mg/L	B2	08/25/23 10:34	1	26	08/25/23 11:45	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 13:22	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Barium	87	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 16:28	TJJ	EPA 6020A
Boron	5700	ug/L		08/28/23 08:52	20	40	08/31/23 09:42	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Calcium	270	mg/L		08/28/23 08:52	5	0.20	08/29/23 13:22	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 13:22	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 13:22	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Magnesium	88	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:22	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 13:22	TJJ	EPA 6020A
Molybdenum	2.7	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Potassium	0.76	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:22	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Sodium	51	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:22	TJJ	EPA 6020A





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### ANALYTICAL RESULTS

**Sample:** GH04842-05  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 14:25  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 11:59	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH05495-01  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 10:47  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	83	mg/L	Q4	08/29/23 12:19	50	50	08/29/23 12:19	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		08/29/23 11:21	1	0.250	08/29/23 11:21	CRD	EPA 300.0 REV 2.1
Sulfate	240	mg/L	Q4	08/29/23 12:19	50	50	08/29/23 12:19	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	25.19	Feet		08/28/23 10:47	1		08/28/23 10:47	FIELD	Field*
Dissolved oxygen, Field	9.8	mg/L		08/28/23 10:47	1		08/28/23 10:47	FIELD	Field*
Oxidation Reduction Potential	44.0	mV		08/28/23 10:47	1	-500	08/28/23 10:47	FIELD	Field*
pH, Field Measured	6.95	pH Units		08/28/23 10:47	1		08/28/23 10:47	FIELD	Field*
Specific Conductance, Field Measured	1420	umhos/cm		08/28/23 10:47	1		08/28/23 10:47	FIELD	Field*
Temperature, Field Measured	20.6	°C		08/28/23 10:47	1		08/28/23 10:47	FIELD	Field*
Turbidity, Field Measured	101	NTU		08/28/23 10:47	1	0.00	08/28/23 10:47	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	360	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	880	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 14:56	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Barium	73	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Boron	9400	ug/L		08/31/23 08:50	20	40	09/08/23 08:16	TJJ	EPA 6020A
Cadmium	1.3	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Calcium	160	mg/L	Q4	08/31/23 08:50	5	0.20	09/06/23 14:56	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/31/23 08:50	5	4.0	09/06/23 14:56	TJJ	EPA 6020A
Cobalt	2.9	ug/L		08/31/23 08:50	5	2.0	09/06/23 14:56	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Magnesium	57	mg/L		08/31/23 08:50	5	0.10	09/06/23 14:56	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 14:56	TJJ	EPA 6020A
Molybdenum	1.1	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Potassium	0.59	mg/L		08/31/23 08:50	5	0.10	09/06/23 14:56	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Sodium	59	mg/L		08/31/23 08:50	5	0.10	09/06/23 14:56	TJJ	EPA 6020A



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**ANALYTICAL RESULTS**

**Sample:** GH05495-01  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 10:47  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/31/23 08:50	1	20	09/06/23 09:10	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH05495-02  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:49  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	78	mg/L		08/29/23 12:58	50	50	08/29/23 12:58	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		08/29/23 12:38	1	0.250	08/29/23 12:38	CRD	EPA 300.0 REV 2.1
Sulfate	460	mg/L		08/29/23 12:58	50	50	08/29/23 12:58	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	8.93	Feet		08/28/23 14:49	1		08/28/23 14:49	FIELD	Field*
Dissolved oxygen, Field	0.49	mg/L		08/28/23 14:49	1		08/28/23 14:49	FIELD	Field*
Oxidation Reduction Potential	26.0	mV		08/28/23 14:49	1	-500	08/28/23 14:49	FIELD	Field*
pH, Field Measured	7.01	pH Units		08/28/23 14:49	1		08/28/23 14:49	FIELD	Field*
Specific Conductance, Field Measured	1730	umhos/cm		08/28/23 14:49	1		08/28/23 14:49	FIELD	Field*
Temperature, Field Measured	21.4	°C		08/28/23 14:49	1		08/28/23 14:49	FIELD	Field*
Turbidity, Field Measured	697	NTU		08/28/23 14:49	1	0.00	08/28/23 14:49	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	390	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1200	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 15:08	TJJ	EPA 6020A
Arsenic	3.3	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Barium	130	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Boron	8600	ug/L		08/31/23 08:50	20	40	09/08/23 08:25	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Calcium	180	mg/L		08/31/23 08:50	5	0.20	09/06/23 15:08	TJJ	EPA 6020A
Chromium	7.3	ug/L		08/31/23 08:50	5	4.0	09/06/23 15:08	TJJ	EPA 6020A
Cobalt	5.3	ug/L		08/31/23 08:50	5	2.0	09/06/23 15:08	TJJ	EPA 6020A
Lead	3.7	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Magnesium	81	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:08	TJJ	EPA 6020A
Mercury	0.44	ug/L		08/31/23 08:50	5	0.20	09/06/23 15:08	TJJ	EPA 6020A
Molybdenum	2.5	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Potassium	1.8	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:08	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Sodium	79	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:08	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GH05495-02  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:49  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/31/23 08:50	1	20	09/06/23 09:27	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH05495-03  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 16:10  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	33	mg/L		08/29/23 13:36	10	10	08/29/23 13:36	CRD	EPA 300.0 REV 2.1
Fluoride	0.284	mg/L		08/29/23 13:17	1	0.250	08/29/23 13:17	CRD	EPA 300.0 REV 2.1
Sulfate	27	mg/L		08/29/23 13:36	10	10	08/29/23 13:36	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	27.52	Feet		08/28/23 16:10	1		08/28/23 16:10	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		08/28/23 16:10	1		08/28/23 16:10	FIELD	Field*
Oxidation Reduction Potential	-85.0	mV		08/28/23 16:10	1	-500	08/28/23 16:10	FIELD	Field*
pH, Field Measured	7.00	pH Units		08/28/23 16:10	1		08/28/23 16:10	FIELD	Field*
Specific Conductance, Field Measured	1110	umhos/cm		08/28/23 16:10	1		08/28/23 16:10	FIELD	Field*
Temperature, Field Measured	23.3	°C		08/28/23 16:10	1		08/28/23 16:10	FIELD	Field*
Turbidity, Field Measured	36.3	NTU		08/28/23 16:10	1	0.00	08/28/23 16:10	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	480	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	560	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 15:11	TJJ	EPA 6020A
Arsenic	5.2	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Barium	190	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Boron	130	ug/L		08/31/23 08:50	5	10	09/08/23 08:28	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Calcium	120	mg/L		08/31/23 08:50	5	0.20	09/06/23 15:11	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/31/23 08:50	5	4.0	09/06/23 15:11	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/31/23 08:50	5	2.0	09/06/23 15:11	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Magnesium	46	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:11	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 15:11	TJJ	EPA 6020A
Molybdenum	6.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Potassium	0.57	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:11	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Sodium	41	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:11	TJJ	EPA 6020A





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### ANALYTICAL RESULTS

**Sample:** GH05495-03  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 16:10  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/31/23 08:50	1	20	09/06/23 09:37	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH05495-04  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:40  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	15	mg/L		08/29/23 14:15	5	5.0	08/29/23 14:15	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		08/29/23 13:56	1	0.250	08/29/23 13:56	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/29/23 13:56	1	1.0	08/29/23 13:56	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	24.76	Feet		08/28/23 14:40	1		08/28/23 14:40	FIELD	Field*
Dissolved oxygen, Field	12	mg/L		08/28/23 14:40	1		08/28/23 14:40	FIELD	Field*
Oxidation Reduction Potential	-120	mV		08/28/23 14:40	1	-500	08/28/23 14:40	FIELD	Field*
pH, Field Measured	6.93	pH Units		08/28/23 14:40	1		08/28/23 14:40	FIELD	Field*
Specific Conductance, Field Measured	473.0	umhos/cm		08/28/23 14:40	1		08/28/23 14:40	FIELD	Field*
Temperature, Field Measured	19.9	°C		08/28/23 14:40	1		08/28/23 14:40	FIELD	Field*
Turbidity, Field Measured	116	NTU		08/28/23 14:40	1	0.00	08/28/23 14:40	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	690	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	720	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 15:15	TJJ	EPA 6020A
Arsenic	9.8	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Barium	190	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Boron	120	ug/L		08/31/23 08:50	5	10	09/08/23 08:31	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Calcium	140	mg/L		08/31/23 08:50	5	0.20	09/06/23 15:15	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/31/23 08:50	5	4.0	09/06/23 15:15	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/31/23 08:50	5	2.0	09/06/23 15:15	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Magnesium	56	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:15	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 15:15	TJJ	EPA 6020A
Molybdenum	1.8	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Potassium	1.5	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:15	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Sodium	61	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:15	TJJ	EPA 6020A



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### ANALYTICAL RESULTS

**Sample:** GH05495-04  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:40  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/31/23 08:50	1	20	09/06/23 09:42	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH05495-05  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 13:04  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	86	mg/L		08/29/23 15:32	25	25	08/29/23 15:32	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/29/23 15:13	1	1.0	08/29/23 15:13	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	2.35	Feet		08/28/23 13:04	1		08/28/23 13:04	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		08/28/23 13:04	1		08/28/23 13:04	FIELD	Field*
Oxidation Reduction Potential	-111	mV		08/28/23 13:04	1	-500	08/28/23 13:04	FIELD	Field*
pH, Field Measured	6.42	pH Units		08/28/23 13:04	1		08/28/23 13:04	FIELD	Field*
Specific Conductance, Field Measured	2370	umhos/cm		08/28/23 13:04	1		08/28/23 13:04	FIELD	Field*
Temperature, Field Measured	20.3	°C		08/28/23 13:04	1		08/28/23 13:04	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		08/28/23 13:04	1	0.00	08/28/23 13:04	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	990	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		09/06/23 17:29	1	0.250	09/06/23 17:29	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1300	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 15:27	TJJ	EPA 6020A
Arsenic	13	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Barium	1100	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Boron	500	ug/L		08/31/23 08:50	5	10	09/08/23 08:34	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Calcium	140	mg/L		08/31/23 08:50	5	0.20	09/06/23 15:27	TJJ	EPA 6020A
Chromium	10	ug/L		08/31/23 08:50	5	4.0	09/06/23 15:27	TJJ	EPA 6020A
Cobalt	7.7	ug/L		08/31/23 08:50	5	2.0	09/06/23 15:27	TJJ	EPA 6020A
Lead	8.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Magnesium	65	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:27	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 15:27	TJJ	EPA 6020A
Molybdenum	1.1	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Potassium	4.2	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:27	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Sodium	270	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:27	TJJ	EPA 6020A



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### ANALYTICAL RESULTS

**Sample:** GH05495-05  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 13:04  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Lithium	48	ug/L		08/31/23 08:50	1	20	09/06/23 09:46	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH05495-06  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 11:10  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	32	mg/L		08/29/23 16:11	10	10	08/29/23 16:11	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/29/23 15:52	1	1.0	08/29/23 15:52	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	6.37	Feet		08/28/23 11:10	1		08/28/23 11:10	FIELD	Field*
Dissolved oxygen, Field	0.24	mg/L		08/28/23 11:10	1		08/28/23 11:10	FIELD	Field*
Oxidation Reduction Potential	-96.0	mV		08/28/23 11:10	1	-500	08/28/23 11:10	FIELD	Field*
pH, Field Measured	6.29	pH Units		08/28/23 11:10	1		08/28/23 11:10	FIELD	Field*
Specific Conductance, Field Measured	1990	umhos/cm		08/28/23 11:10	1		08/28/23 11:10	FIELD	Field*
Temperature, Field Measured	16.8	°C		08/28/23 11:10	1		08/28/23 11:10	FIELD	Field*
Turbidity, Field Measured	100	NTU		08/28/23 11:10	1	0.00	08/28/23 11:10	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	900	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		09/06/23 17:31	1	0.250	09/06/23 17:31	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1000	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 15:31	TJJ	EPA 6020A
Arsenic	11	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Barium	870	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Boron	240	ug/L		08/31/23 08:50	5	10	09/08/23 08:36	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Calcium	170	mg/L		08/31/23 08:50	5	0.20	09/06/23 15:31	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/31/23 08:50	5	4.0	09/06/23 15:31	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/31/23 08:50	5	2.0	09/06/23 15:31	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Magnesium	72	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:31	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 15:31	TJJ	EPA 6020A
Molybdenum	1.7	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Potassium	2.9	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:31	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Sodium	160	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:31	TJJ	EPA 6020A



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**ANALYTICAL RESULTS**

**Sample:** GH05495-06  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 11:10  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Lithium	21	ug/L		08/31/23 08:50	1	20	09/06/23 09:50	BRS	EPA 6010B

**Sample:** GH05495-08  
**Name:** XPW03  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 16:16  
**Received:** 08/29/23 07:00

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

Depth, From Measuring Point	17.51	Feet		08/28/23 16:16	1		08/28/23 16:16	FIELD	Field*
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## ANALYTICAL RESULTS

**Sample:** GH05632-01  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 08/29/23 11:50  
**Received:** 08/29/23 14:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	28	mg/L		08/30/23 03:09	10	10	08/30/23 03:09	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		08/30/23 02:50	1	0.250	08/30/23 02:50	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/30/23 02:50	1	1.0	08/30/23 02:50	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	26.73	Feet		08/29/23 11:50	1		08/29/23 11:50	FIELD	Field*
Dissolved oxygen, Field	4.5	mg/L		08/29/23 11:50	1		08/29/23 11:50	FIELD	Field*
Oxidation Reduction Potential	-94.0	mV		08/29/23 11:50	1	-500	08/29/23 11:50	FIELD	Field*
pH, Field Measured	7.12	pH Units		08/29/23 11:50	1		08/29/23 11:50	FIELD	Field*
Specific Conductance, Field Measured	1500	umhos/cm		08/29/23 11:50	1		08/29/23 11:50	FIELD	Field*
Temperature, Field Measured	18.2	°C		08/29/23 11:50	1		08/29/23 11:50	FIELD	Field*
Turbidity, Field Measured	177	NTU		08/29/23 11:50	1	0.00	08/29/23 11:50	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	720	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	840	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 16:01	TJJ	EPA 6020A
Arsenic	17	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Barium	390	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Boron	310	ug/L		08/31/23 08:50	5	10	09/08/23 09:07	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Calcium	120	mg/L		08/31/23 08:50	5	0.20	09/06/23 16:01	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/31/23 08:50	5	4.0	09/06/23 16:01	TJJ	EPA 6020A
Cobalt	3.0	ug/L		08/31/23 08:50	5	2.0	09/06/23 16:01	TJJ	EPA 6020A
Lead	1.3	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Magnesium	50	mg/L		08/31/23 08:50	5	0.10	09/06/23 16:01	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 16:01	TJJ	EPA 6020A
Molybdenum	21	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Potassium	2.3	mg/L		08/31/23 08:50	5	0.10	09/06/23 16:01	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Sodium	130	mg/L		08/31/23 08:50	5	0.10	09/06/23 16:01	TJJ	EPA 6020A



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**ANALYTICAL RESULTS**

**Sample:** GH05632-01  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 08/29/23 11:50  
**Received:** 08/29/23 14:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/31/23 08:50	1	20	09/06/23 10:12	BRS	EPA 6010B

**Sample:** GH05632-03  
**Name:** SG-01  
**Matrix:** gw

**Sampled:** 08/21/21 09:30  
**Received:** 08/29/23 14:09

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

Depth, From Measuring Point	435	Feet		08/21/21 09:30	1		08/21/21 09:30	FIELD	Field*
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### QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B342013 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B342013-MS1)</b>				<b>Sample: GH04348-01</b>		Prepared & Analyzed: 08/22/23			
Chloride	< 1.0	mg/L	Q4	1.500	51	NR	80-120		
Sulfate	2.24	mg/L		1.500	0.615	108	80-120		
<b>Matrix Spike Dup (B342013-MSD1)</b>				<b>Sample: GH04348-01</b>		Prepared & Analyzed: 08/22/23			
Chloride	< 1.0	mg/L	Q4	1.500	51	NR	80-120		20
Sulfate	2.23	mg/L		1.500	0.615	108	80-120	0.3	20
<b><u>Batch B342111 - No Prep - SM 2540C</u></b>									
<b>Blank (B342111-BLK1)</b>				Prepared & Analyzed: 08/24/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B342111-BS1)</b>				Prepared & Analyzed: 08/24/23					
Solids - total dissolved solids (TDS)	970	mg/L		1000		97	84.9-109		
<b>Duplicate (B342111-DUP1)</b>				<b>Sample: GH04348-01</b>		Prepared & Analyzed: 08/24/23			
Solids - total dissolved solids (TDS)	1180	mg/L			1160			0.9	5
<b>Duplicate (B342111-DUP2)</b>				<b>Sample: GH04553-01</b>		Prepared & Analyzed: 08/24/23			
Solids - total dissolved solids (TDS)	860	mg/L			830			4	5
<b><u>Batch B342126 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B342126-MS1)</b>				<b>Sample: GH04553-01</b>		Prepared & Analyzed: 08/23/23			
Fluoride	1.65	mg/L		1.500	ND	110	80-120		
Chloride	< 1.0	mg/L	Q1	1.500	12	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	ND	NR	80-120		
<b>Matrix Spike Dup (B342126-MSD1)</b>				<b>Sample: GH04553-01</b>		Prepared & Analyzed: 08/23/23			
Chloride	< 1.0	mg/L	Q2	1.500	12	NR	80-120		20
Fluoride	1.64	mg/L		1.500	ND	109	80-120	1	20
Sulfate	1.00E9	mg/L	Q4	1.500	ND	NR	80-120	0	20
<b><u>Batch B342242 - No Prep - SM 2540C</u></b>									
<b>Blank (B342242-BLK1)</b>				Prepared & Analyzed: 08/25/23					
Solids - total dissolved solids (TDS)	< 17	mg/L	B2						
<b>LCS (B342242-BS1)</b>				Prepared & Analyzed: 08/25/23					
Solids - total dissolved solids (TDS)	937	mg/L		1000		94	84.9-109		
<b>Duplicate (B342242-DUP1)</b>				<b>Sample: GH04842-01</b>		Prepared & Analyzed: 08/25/23			
Solids - total dissolved solids (TDS)	835	mg/L	M		890			6	5
<b><u>Batch B342256 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B342256-MS2)</b>				<b>Sample: GH04842-01</b>		Prepared & Analyzed: 08/24/23			
Sulfate	7.47	mg/L	Q1	1.500	5.56	127	80-120		
Chloride	< 1.0	mg/L	Q4	1.500	41	NR	80-120		
<b>Matrix Spike Dup (B342256-MSD2)</b>				<b>Sample: GH04842-01</b>		Prepared & Analyzed: 08/24/23			
Chloride	< 1.0	mg/L	Q4	1.500	41	NR	80-120		20
Sulfate	7.41	mg/L	Q2	1.500	5.56	123	80-120	0.8	20
<b><u>Batch B342344 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B342344-BLK1)</b>				Prepared: 08/28/23 Analyzed: 08/29/23					
Lithium	< 20	ug/L							

### QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS (B342344-BS1)</b>				Prepared: 08/28/23 Analyzed: 08/29/23					
Lithium	540	ug/L		555.6		97	80-120		
<b>Matrix Spike (B342344-MS1)</b>				Sample: GH04348-01 Prepared: 08/28/23 Analyzed: 08/29/23					
Lithium	546	ug/L		555.6	32.3	93	75-125		
<b>Matrix Spike Dup (B342344-MSD1)</b>				Sample: GH04348-01 Prepared: 08/28/23 Analyzed: 08/29/23					
Lithium	552	ug/L		555.6	32.3	94	75-125	1	20
<b><u>Batch B342344 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B342344-BLK1)</b>				Prepared: 08/28/23 Analyzed: 08/29/23					
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							
<b>LCS (B342344-BS1)</b>				Prepared: 08/28/23 Analyzed: 08/29/23					
Antimony	574	ug/L		555.6		103	80-120		
Arsenic	555	ug/L		555.6		100	80-120		
Barium	560	ug/L		555.6		101	80-120		
Beryllium	572	ug/L		555.6		103	80-120		
Boron	551	ug/L		555.6		99	80-120		
Cadmium	537	ug/L		555.6		97	80-120		
Calcium	5.64	mg/L		5.556		101	80-120		
Chromium	561	ug/L		555.6		101	80-120		
Cobalt	545	ug/L		555.6		98	80-120		
Lead	556	ug/L		555.6		100	80-120		
Magnesium	5.78	mg/L		5.556		104	80-120		
Mercury	52.3	ug/L		55.56		94	80-120		
Molybdenum	521	ug/L		555.6		94	80-120		
Potassium	5.73	mg/L		5.556		103	80-120		
Selenium	566	ug/L		555.6		102	80-120		
Sodium	5.40	mg/L		5.556		97	80-120		
Thallium	528	ug/L		555.6		95	80-120		
<b>Matrix Spike (B342344-MS1)</b>				Sample: GH04348-01 Prepared: 08/28/23 Analyzed: 08/29/23					
Antimony	560	ug/L		555.6	ND	101	75-125		
Arsenic	555	ug/L		555.6	ND	100	75-125		
Barium	1660	ug/L		555.6	1140	93	75-125		

### QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike (B342344-MS1)</b>		<b>Sample: GH04348-01</b>		Prepared: 08/28/23 Analyzed: 08/29/23					
Beryllium	556	ug/L		555.6	ND	100	75-125		
Boron	951	ug/L		555.6	436	93	75-125		
Cadmium	535	ug/L		555.6	ND	96	75-125		
Calcium	150	mg/L		5.556	145	95	75-125		
Chromium	552	ug/L		555.6	ND	99	75-125		
Cobalt	531	ug/L		555.6	1.49	95	75-125		
Lead	538	ug/L		555.6	ND	97	75-125		
Magnesium	64.3	mg/L		5.556	60.1	77	75-125		
Mercury	53.2	ug/L		55.56	0.389	95	75-125		
Molybdenum	541	ug/L		555.6	ND	97	75-125		
Potassium	10.3	mg/L		5.556	4.78	99	75-125		
Selenium	568	ug/L		555.6	ND	102	75-125		
Sodium	237	mg/L	Q4	5.556	237	0.6	75-125		
Thallium	509	ug/L		555.6	ND	92	75-125		
<b>Matrix Spike Dup (B342344-MSD1)</b>		<b>Sample: GH04348-01</b>		Prepared: 08/28/23 Analyzed: 08/29/23					
Antimony	564	ug/L		555.6	ND	102	75-125	0.7	20
Arsenic	555	ug/L		555.6	ND	100	75-125	0.03	20
Barium	1670	ug/L		555.6	1140	95	75-125	0.7	20
Beryllium	547	ug/L		555.6	ND	98	75-125	2	20
Boron	971	ug/L		555.6	436	96	75-125	2	20
Cadmium	537	ug/L		555.6	ND	97	75-125	0.4	20
Calcium	148	mg/L	Q4	5.556	145	65	75-125	1	20
Chromium	554	ug/L		555.6	ND	100	75-125	0.4	20
Cobalt	531	ug/L		555.6	1.49	95	75-125	0.01	20
Lead	543	ug/L		555.6	ND	98	75-125	0.9	20
Magnesium	63.4	mg/L	Q4	5.556	60.1	61	75-125	1	20
Mercury	54.4	ug/L		55.56	0.389	97	75-125	2	20
Molybdenum	541	ug/L		555.6	ND	97	75-125	0.004	20
Potassium	10.1	mg/L		5.556	4.78	97	75-125	1	20
Selenium	568	ug/L		555.6	ND	102	75-125	0.04	20
Sodium	233	mg/L	Q4	5.556	237	NR	75-125	2	20
Thallium	513	ug/L		555.6	ND	92	75-125	0.7	20
<b><u>Batch B342504 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B342504-DUP1)</b>		<b>Sample: GH04348-01</b>		Prepared & Analyzed: 08/29/23					
Alkalinity - bicarbonate as CaCO3	1120	mg/L			1160			3	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
<b>Duplicate (B342504-DUP3)</b>		<b>Sample: GH04553-01</b>		Prepared & Analyzed: 08/29/23					
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	775	mg/L			762			2	10
<b>Duplicate (B342504-DUP5)</b>		<b>Sample: GH04842-01</b>		Prepared & Analyzed: 08/29/23					
Alkalinity - bicarbonate as CaCO3	888	mg/L			838			6	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
<b><u>Batch B342514 - No Prep - SM 4500F C 1997</u></b>									
<b>Matrix Spike (B342514-MS4)</b>		<b>Sample: GH04348-04</b>		Prepared & Analyzed: 08/29/23					
Fluoride	1.09	mg/L		1.000	0.0810	101	80-120		

### QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike Dup (B342514-MSD4)</b>				Sample: GH04348-04		Prepared & Analyzed: 08/29/23			
Fluoride	1.10	mg/L		1.000	0.0810	102	80-120	1	20
<b><u>Batch B342591 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B342591-MS1)</b>				Sample: GH05495-01		Prepared & Analyzed: 08/29/23			
Sulfate	1.00E9	mg/L	Q4	1.500	240	NR	80-120		
Fluoride	1.73	mg/L		1.500	0.215	101	80-120		
Chloride	< 1.0	mg/L	Q4	1.500	83	NR	80-120		
<b>Matrix Spike Dup (B342591-MSD1)</b>				Sample: GH05495-01		Prepared & Analyzed: 08/29/23			
Chloride	< 1.0	mg/L	Q4	1.500	83	NR	80-120		20
Sulfate	1.00E9	mg/L	Q4	1.500	240	NR	80-120	0	20
Fluoride	1.69	mg/L		1.500	0.215	99	80-120	2	20
<b><u>Batch B342596 - No Prep - SM 2540C</u></b>									
<b>Blank (B342596-BLK1)</b>				Prepared & Analyzed: 08/30/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B342596-BS1)</b>				Prepared & Analyzed: 08/30/23					
Solids - total dissolved solids (TDS)	1020	mg/L		1000		102	84.9-109		
<b>Duplicate (B342596-DUP1)</b>				Sample: GH05495-01		Prepared & Analyzed: 08/30/23			
Solids - total dissolved solids (TDS)	905	mg/L			875			3	5
<b>Duplicate (B342596-DUP2)</b>				Sample: GH05632-01		Prepared & Analyzed: 08/30/23			
Solids - total dissolved solids (TDS)	840	mg/L			840			0	5
<b><u>Batch B342610 - No Prep - SM 4500F C 1997</u></b>									
<b>Matrix Spike (B342610-MS1)</b>				Sample: GH04553-01		Prepared & Analyzed: 08/30/23			
Fluoride	1.29	mg/L		1.000	0.280	101	80-120		
<b>Matrix Spike (B342610-MS2)</b>				Sample: GH04842-04		Prepared & Analyzed: 08/30/23			
Fluoride	1.09	mg/L		1.000	0.0820	101	80-120		
<b>Matrix Spike Dup (B342610-MSD1)</b>				Sample: GH04553-01		Prepared & Analyzed: 08/30/23			
Fluoride	1.32	mg/L		1.000	0.280	104	80-120	2	20
<b>Matrix Spike Dup (B342610-MSD2)</b>				Sample: GH04842-04		Prepared & Analyzed: 08/30/23			
Fluoride	1.09	mg/L		1.000	0.0820	101	80-120	0.5	20
<b><u>Batch B342684 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B342684-BLK1)</b>				Prepared: 08/31/23 Analyzed: 09/06/23					
Lithium	< 20	ug/L							
<b>LCS (B342684-BS1)</b>				Prepared: 08/31/23 Analyzed: 09/06/23					
Lithium	526	ug/L		555.6		95	80-120		
<b>Matrix Spike (B342684-MS1)</b>				Sample: GH05495-01		Prepared: 08/31/23 Analyzed: 09/06/23			
Lithium	512	ug/L		555.6	6.12	91	75-125		
<b>Matrix Spike Dup (B342684-MSD1)</b>				Sample: GH05495-01		Prepared: 08/31/23 Analyzed: 09/06/23			
Lithium	514	ug/L		555.6	6.12	91	75-125	0.4	20
<b><u>Batch B342684 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B342684-BLK1)</b>				Prepared: 08/31/23 Analyzed: 09/06/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							

### QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Blank (B342684-BLK1)</b>				Prepared: 08/31/23 Analyzed: 09/06/23					
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							
<b>LCS (B342684-BS1)</b>				Prepared: 08/31/23 Analyzed: 09/06/23					
Antimony	560	ug/L		555.6		101	80-120		
Arsenic	547	ug/L		555.6		98	80-120		
Barium	545	ug/L		555.6		98	80-120		
Beryllium	541	ug/L		555.6		97	80-120		
Boron	534	ug/L		555.6		96	80-120		
Cadmium	536	ug/L		555.6		97	80-120		
Calcium	5.40	mg/L		5.556		97	80-120		
Chromium	547	ug/L		555.6		99	80-120		
Cobalt	545	ug/L		555.6		98	80-120		
Lead	564	ug/L		555.6		102	80-120		
Magnesium	5.44	mg/L		5.556		98	80-120		
Mercury	51.5	ug/L		55.56		93	80-120		
Molybdenum	535	ug/L		555.6		96	80-120		
Potassium	5.46	mg/L		5.556		98	80-120		
Selenium	555	ug/L		555.6		100	80-120		
Sodium	5.38	mg/L		5.556		97	80-120		
Thallium	544	ug/L		555.6		98	80-120		
<b>Matrix Spike (B342684-MS1)</b>				Sample: GH05495-01		Prepared: 08/31/23 Analyzed: 09/06/23			
Antimony	548	ug/L		555.6	ND	99	75-125		
Arsenic	541	ug/L		555.6	ND	97	75-125		
Barium	603	ug/L		555.6	72.6	96	75-125		
Beryllium	534	ug/L		555.6	ND	96	75-125		
Boron	9940	ug/L		555.6	9390	99	75-125		
Cadmium	527	ug/L		555.6	1.27	95	75-125		
Calcium	160	mg/L	Q4	5.556	157	54	75-125		
Chromium	531	ug/L		555.6	ND	96	75-125		
Cobalt	525	ug/L		555.6	2.92	94	75-125		
Lead	542	ug/L		555.6	0.900	97	75-125		
Magnesium	60.3	mg/L	Q4	5.556	56.7	66	75-125		
Mercury	51.8	ug/L		55.56	ND	93	75-125		
Molybdenum	536	ug/L		555.6	1.06	96	75-125		
Potassium	6.08	mg/L		5.556	0.592	99	75-125		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike (B342684-MS1)</b>				<b>Sample: GH05495-01</b>		Prepared: 08/31/23 Analyzed: 09/06/23			
Selenium	543	ug/L		555.6	ND	98	75-125		
Sodium	63.3	mg/L		5.556	59.0	76	75-125		
Thallium	528	ug/L		555.6	ND	95	75-125		
<b>Matrix Spike Dup (B342684-MSD1)</b>				<b>Sample: GH05495-01</b>		Prepared: 08/31/23 Analyzed: 09/06/23			
Antimony	547	ug/L		555.6	ND	99	75-125	0.08	20
Arsenic	554	ug/L		555.6	ND	100	75-125	2	20
Barium	622	ug/L		555.6	72.6	99	75-125	3	20
Beryllium	550	ug/L		555.6	ND	99	75-125	3	20
Boron	10300	ug/L	Q2	555.6	9390	157	75-125	3	20
Cadmium	542	ug/L		555.6	1.27	97	75-125	3	20
Calcium	161	mg/L	Q4	5.556	157	71	75-125	0.6	20
Chromium	548	ug/L		555.6	ND	99	75-125	3	20
Cobalt	538	ug/L		555.6	2.92	96	75-125	2	20
Lead	556	ug/L		555.6	0.900	100	75-125	3	20
Magnesium	60.9	mg/L		5.556	56.7	76	75-125	0.9	20
Mercury	52.6	ug/L		55.56	ND	95	75-125	2	20
Molybdenum	547	ug/L		555.6	1.06	98	75-125	2	20
Potassium	6.02	mg/L		5.556	0.592	98	75-125	1	20
Selenium	558	ug/L		555.6	ND	100	75-125	3	20
Sodium	63.5	mg/L		5.556	59.0	80	75-125	0.3	20
Thallium	540	ug/L		555.6	ND	97	75-125	2	20
<b><u>Batch B342872 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B342872-DUP1)</b>				<b>Sample: GH05495-01</b>		Prepared & Analyzed: 09/02/23			
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	362	mg/L			362			0	10
<b>Duplicate (B342872-DUP3)</b>				<b>Sample: GH05632-01</b>		Prepared & Analyzed: 09/02/23			
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	800	mg/L			725			10	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

- B2 Contamination does not impact data since sample result is greater than ten times the contamination level found in the blank.
- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q1 Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q2 Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q3 Matrix Spike/Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- 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



WELL/SAMPLE POINT AP05S

Purge Method: portable pump

Date: 8-23-23 Start Time: 11:30

Finish/Sample Time: 13:04

Well Depth (Bottom) From MP: \_\_\_\_\_ ft

Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 6.07 ft

Total Purge Volume: 1.8 Gal / L

Water Column Length: \_\_\_\_\_ ft

Max Drawdown: NA ft

Well Water Volume: \_\_\_\_\_ Gal / L

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	11:50	06.43	100	7.02	1,470	26.7	-131	1.47	43.1
2	11:51	06.42	100	6.91	1,490	26.7	-132	1.30	40.9
3	11:52	06.43	100	6.88	1,490	26.6	-133	1.26	39.7
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	2.5 L HPLC
1	500 mL ZNCL

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

Ferrous Iron over range mg/L

Comments NA

Sampler's Signature: [Signature]

**Site: Edwards Ash Pond**

WELL/SAMPLE POINT AP07S

Purge Method: Portable pump

Date: 8/28/23 Start Time: 0945 Finish/Sample Time: 1047

Well Depth (Bottom) From MP: 37.35 ft Min. Purge Volume: 1.0 Gal  L  
 Depth to Water From MP: 25.19 ft Total Purge Volume: 1.4 Gal  L  
 Water Column Length: 12.16 ft Max Drawdown: - ft  
 Well Water Volume: 7.36 Gal  L Total Drawdown: 0.97 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	1007	25.77	100	6.98	1430	20.49	42	10.12	135
2	1010	25.95	100	6.97	1430	20.55	43	9.90	114
3	1012	25.98	100	6.95	1420	20.59	44	9.81	101
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)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	2.5L HNO3
1	NaOH + ZnAc

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

Ferrous Iron 0.097 mg/L

Comments Final DTW = 26.16'

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-01

Purge Method: De-scale & pump

Date: 8/22/23 Start Time: 1158 Finish/Sample Time: 1428

Well Depth (Bottom) From MP: \_\_\_\_\_ ft Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Depth to Water From MP: 10.28 ft Total Purge Volume: 1500 Gal / (mL)  
 Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 15.62 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	1221	11.72	100	6.63	1470	24.89	-91	0.57	15.2
2	1223	11.90	100	6.64	1470	24.73	-92	0.54	10.0
3	1225	12.05	100	6.64	1450	24.70	-95	0.51	8.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
313	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
313	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
111	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
111	General (P, 250 mL) <u>500mL 100mL</u>
111	(P, 500mL, No OH & ZnAc) <u>APP 8/22/23</u>
111	(P, 2.5L, HNO3)

15415

Filtered	
Qty	Bottles
111	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
111	General (P, 500mL) <u>1000mL</u>
313	TOC (A, V, 40mL, H2SO4)

Ferrous Iron Over range mg/L

Comments Final DTW 25.90

Sampler's Signature: [Signature]

**Site: Edwards Ash Pond**

WELL/SAMPLE POINT AW-05

Purge Method: Dedicated pump

Date: 8/28/23 Start Time: 1335 Finish/Sample Time: 1449

Well Depth (Bottom) From MP: Pump ft  
 Min. Purge Volume: 1.0 Gal / 0  
 Depth to Water From MP: 8.93 ft  
 Total Purge Volume: 1.3 Gal / (L)  
 Water Column Length: — ft  
 Max Drawdown: — ft  
 Well Water Volume: — Gal / L  
 Total Drawdown: 0.31 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	1346	9.09	100	7.03	1720	21.49	55	0.66	645
2	1347	9.10	100	7.01	1730	21.14	40	0.65	687
3	1349	9.10	100	7.01	1730	21.45	26	0.49	697
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

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

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	2.5L HNO3
1	NaOH + Zn Ac

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

Ferrous Iron 4.189 mg/L

Comments Final DTW = 9.24'

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-06

Purge Method: Dedicated Blaster

Date: 8/28/2023 Start Time: 1450 Finish/Sample Time: 1610

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

Depth to Water From MP: 27.52 ft Total Purge Volume: 1000 Gal / L (ml)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 10.43 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	1505	29.64	100	7.08	1110	23.40	-78	2.02	43.7
2	1507	29.80	100	7.02	1110	23.37	-77	2.08	40.4
3	1509	29.97	100	7.00	1110	23.28	-85	2.00	36.3
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

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)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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) 1000mV
1	(P, 500mL, HNO3) (HCL)
1	(P, 250mL, HNO3)

15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000mV
3	TOC (A,V, 40mL, H2SO4)

App 8/28/23 Ferrous Iron 0.553 mg/L

Comments Final DTW 37.95 AL

Sampler's Signature: 

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-08

Purge Method: Descaled pump

Date: 8/28/2023 Start Time: 1315 Finish/Sample Time: 1440

Well Depth (Bottom) From MP: \_\_\_\_\_ ft Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Depth to Water From MP: 24.76 ft Total Purge Volume: \_\_\_\_\_ Gal / L  
 Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L 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	1332	24.17	100	6.88	489	19.79	-118	12.14	117
2	1334	30.34	100	6.85	436	19.89	-115	12.38	67.3
3	1336	30.34	100	6.90	455	19.83	-119	12.40	112
4	1338	30.72	100	6.83	473	19.90	-120	12.36	116
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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, 500mL, H2SO4) NaOH (H2NAC)
1	(P, 2.5L, HNO3)

15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	TOL (A, V, 40mL, H2SO4)

Ferrous Iron Over range mg/L

Comments: Final DTW 39.63 PL  
check valve issues cause flow rate to fluctuate between 25-200 ml/min

Sampler's Signature: \_\_\_\_\_

WELL/SAMPLE POINT AW-09

Purge Method: Bladder pump

Date: 8/29/23 Start Time: 1000 Finish/Sample Time: 1150

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

Depth to Water From MP: 26.73 ft Total Purge Volume: 1.8 Gal

Water Column Length: — ft Max Drawdown: — ft

Well Water Volume: — Gal / L Total Drawdown: 12.22 ft

End DTW  
38.95

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	1030	2980	100	7.18	1470	18.25	-90	4.84	211
2	1031	2999	100	7.13	1490	18.23	-93	4.69	194
3	1032	3021	100	7.12	1500	18.20	-94	4.50	177
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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	2.5 L HNO3
1	Zn acetate 500mL

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

Ferrous Iron Over Range mg/L

Comments

Sampler's Signature: Joseph R Paul



WELL/SAMPLE POINT AW-10

Purge Method: Desiccated Bladder

Date: 8/28/2023 Start Time: 1115 Finish/Sample Time: 1304

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

Depth to Water From MP: 2.35 ft Total Purge Volume: 1500 Gal / L (L)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 3.40 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	1158	4.04	100	6.43	2370	20.30	-107	0.00	0.0
2	1200	4.14	100	6.42	2370	20.35	-110	0.00	0.0
3	1202	4.24	100	6.42	2370	20.29	-111	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)
<u>3</u>	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250mL) 1000mL
<u>1</u>	(P, 500mL NaOH + 200mL)
<u>1</u>	(P, 2.5L, HNO3)

15

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P,500mL)
<u>3</u>	TOC (A,V, 40mL, H2SO4)

Ferrous Iron over range mg/L

Comments Final DTW 5.75 ft

Sampler's Signature: \_\_\_\_\_

*[Handwritten Signature]*

**Site: Edwards Ash Pond**

WELL/SAMPLE POINT AW-11

Purge Method: Def: cable & bladder

Date: 8/28/2023 Start Time: 0945 Finish/Sample Time: 1110

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

Depth to Water From MP: 6.37 ft Total Purge Volume: 1500 Gal / L (ml)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 0.0 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	1005	6.37	100	6.30	2010	16.83	-94	0.23	120
2	1007	6.37	100	6.29	1990	16.75	-95	0.21	108
3	1009	6.37	100	6.29	1990	16.78	-96	0.24	100
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)
<u>3</u>	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250ml) <u>100ml</u>
<u>1</u>	(P, 500ml, NaOH + 2n Ac)
<u>1</u>	(P, 2.5L, HNO3)

15

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P, 500ml) <u>100ml</u>
<u>3</u>	TOC (A, 40mL, H2SO4)

AP/ 7/25/23  
 Ferrous Iron 6. OVER RANGE mg/L

Comments Final 1 TW - 6.37 ft

Sampler's Signature: \_\_\_\_\_

Site: **Edwards Ash Pond**

WELL/SAMPLE POINT AW-14

Purge Method: Dedicated Bladder

Date: 8/23/23 Start Time: 1430 Finish/Sample Time: 1553

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

Depth to Water From MP: 7.06 ft Total Purge Volume: 1500 Gal / L mL

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 10.00 ft

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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	1448	8.43	100	7.14	1650	23.10	-130	1.16	0.0
2	1450	8.95	100	7.07	1680	23.16	-132	1.13	0.0
3	1452	9.10	100	6.99	1720	23.25	-132	1.09	0.0
4	<del>_____</del>								
5	<del>_____</del>								
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

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

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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, 500mL, NaOH & ZNAC)
1	(P, 250L, HNO3)

15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000mL
3	TOC (A,V, 40mL, H2SO4)

Ferrous Iron 0.06 / range mg/L

Comments Final DEW 17.06

Sampler's Signature: \_\_\_\_\_



Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-15

Purge Method: Desiccated Blaster

Date: 8/23/23 Start Time: 1130 Finish/Sample Time: 1255

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

Depth to Water From MP: 9.00 ft Total Purge Volume: 1500 Gal / L (mL)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 0.20 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	1149	9.17	100	6.78	2040	19.34	-139	0.55	0.0
2	1151	9.18	100	6.78	2040	19.40	-140	0.42	0.0
3	1153	9.19	100	6.78	2050	19.48	-140	0.45	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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
<u>3</u>	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250 mL) 1000 mL
<u>1</u>	(P, 500mL NaOH vial)
<u>1</u>	(P, 250mL, HNO3)

(15)

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P, 500mL) 1000 mL
<u>3</u>	TOC (A,V, 40mL, H2SO4)

Ferrous Iron Over range mg/L

Comments Final DTU 09.20

Sampler's Signature: \_\_\_\_\_

WELL/SAMPLE POINT AW-15S

Purge Method: Descaler Bladder

Date: 8/23/23 Start Time: 1258 Finish/Sample Time: 1425

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

Depth to Water From MP: 1.75 ft Total Purge Volume: 1500 Gal / L (ML)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 5.00 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	1318	10.95	100	6.92	1720	25.12	-30	0.40	0.0
2	1320	11.00	100	6.92	1730	25.05	-29	0.39	0.0
3	1322	11.05	100	6.92	1730	25.10	-29	0.35	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hor:60

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
<u>3</u>	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250 mL)
<u>1</u>	(P, 500mL, NaOH & ZnAc)
<u>1</u>	(P, 250mL, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P, 500mL) <u>1000mL</u>
<u>3</u>	TOC (A, V, 40mL, H2SO4)

Ferrous Iron 0.433 mg/L

Comments Final DTW 14.75 PL

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-16

Purge Method: Dedicator Pump

Date: 8-21-23 Start Time: 12:05 Finish/Sample Time: 14:18 1428 L

Well Depth (Bottom) From MP: 56.80 ft Top of Pump Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 25.21 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: 31.59 ft Max Drawdown: NA ft

Well Water Volume: 5.054 Gal / L Total Drawdown:      ft

APP 8/21/23

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	12:25	25.87	100	7.01	2,000	20.92	-119	0.21	9.0
2	12:26	25.90	100	6.99	1,990	20.89	-120	0.18	8.5
3	12:27	25.91	100	6.96	1,970	20.81	-120	0.12	9.7
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
<u>1</u>	VOAs (C,V, 40mL, HCL)
<u>3+3</u>	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3+3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1+1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1+1</u>	General (P, 250 mL)
<u>1+1</u>	<u>2.5 L HNO3</u>
<u>1+1</u>	<u>P, 500 mL, ZNAC</u>

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Filtered	
Qty	Bottles
<u>1+1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1+1</u>	General (P,500mL)
<u>3+3</u>	<u>TOC</u>

Ferrous Iron 5.161 mg/L

Comments FD-26.11 DUP were grabbed

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-17

Purge Method: Dedicated Pump

Date: 8-21-23 Start Time: 14:32 Finish/Sample Time: 16:01

Well Depth (Bottom) From MP: 56.62 ft TOP OF PUMP Min. Purge Volume: 1.5 Gal / L  
 Depth to Water From MP: 26.14 ft Total Purge Volume: 1.8 Gal / L  
 Water Column Length: 30.48 ft Max Drawdown: NA ft  
 Well Water Volume: 4,876 Gal / L 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	14:50	26.84	100	7.04	1,620	25.29	-103	1.53	137
2	14:51	26.82	100	6.99	1,630	25.15	-104	1.41	141
3	14:52	26.83	100	6.95	1,620	25.08	-106	1.30	140
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	2.5 L HNO3
1	500 mL ZNAC

15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	40L 40 mL

Ferrous Iron OVER RANGE mg/L

Comments FD → 27.91

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-18

Purge Method: Dedicated Pump

Date: 8-22-23 Start Time: 09:43 Finish/Sample Time: 11:11

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Depth to Water From MP: 27.97 ft  
 Water Column Length: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L

Min. Purge Volume: 1.5 Gal / L  
 Total Purge Volume: 1.8 Gal / L  
 Max Drawdown: NA 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	10:03	29.48	100	6.62	1,740	18.92	-117	1.30	33.7
2	10:04	29.51	100	6.60	1,730	18.91	-118	1.15	32.9
3	10:05	29.56	100	6.59	1,730	18.99	-119	1.05	29.3
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	25 L HNO3
1	500 mL ZANAL

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

Ferrous Iron over range mg/L

Comments FD → 32.11

Sampler's Signature: [Signature]



**Site: Edwards Ash Pond**

WELL/SAMPLE POINT AW-19

Purge Method: Dedicated Pump

Date: 8-22-23 Start Time: 11:30 Finish/Sample Time: 12:57

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Depth to Water From MP: 14.10 ft  
 Water Column Length: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L  
 Min. Purge Volume: 1.5 Gal / L  
 Total Purge Volume: 1.8 Gal / L  
 Max Drawdown: NA 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	11:50	16.03	100	6.51	1,080	20.01	-58	1.10	27.9
2	11:51	16.11	100	6.50	1,060	20.07	-58	1.00	26.8
3	11:52	16.20	100	6.49	1,050	20.03	-57	0.96	24.6
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanlon

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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	2.5 L HNO3
1	500 mL ZnAc

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

Ferrous Iron 2.673 mg/L

Comments FD - 18.12

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-21

Purge Method: Dedicated Pump

Date: 8-22-23 Start Time: 14:40 Finish/Sample Time: 16:07

Well Depth (Bottom) From MP:      ft  
 Min. Purge Volume: 1.5 Gal / L  
 Depth to Water From MP: 17.47 ft  
 Total Purge Volume: 1.8 Gal / L  
 Water Column Length:      ft  
 Max Drawdown: NA ft  
 Well Water Volume:      Gal / L  
 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	14:58	18.80	100	6.55	1,040	18.73	141	7.89	16.2
2	14:59	18.84	100	6.54	1,040	18.64	136	7.74	15.7
3	15:00	18.88	100	6.53	1,050	18.59	130	7.69	15.0
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
6	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	2.5 L HNO3
1	500 mL H2O

15

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

Ferrous Iron 5.247 mg/L  
 Over Range <sup>BC</sup> 9/12/23

Comments FD 19.89

Sampler's Signature: [Signature]

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Kyle Lane</i>				Location: <i>EDWARD Power</i>					
Weather: <i>84° to 93° sunny</i>				Environment: <i>dry</i>					
Multiparameter Water Meter		Make: <i>Hanba</i>	Model: <i>V-5000</i>	Serial Number: <i>PW264J03</i>					
Water Level Meter		Make: <i>Heron</i>	Model: <i>water table</i>	Serial Number: <i>19FF220213/ML</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.95</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2040</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	<i>NA</i>	Geotech	3GA1071	Jan-24
ORP	<i>7.14</i>	mV	±15 mV	<i>P</i>	<i>NA</i>	<i>NA</i>	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.01</i>	mg/L	±0.1	<i>P</i>	<i>NA</i>	<i>NA</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.00</i>	%	97-100%	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.40</i>	NTU	<2 NTU	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <i>16:40</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.94</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GE870	May-24	
pH 7.00b	<i>7.01</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GF113	Jun-24	
pH 10.00b	<i>10.03</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GE820	May-24	
SC 1000	<i>10.32</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	Ricca	4209A12	Aug-23	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>NA</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023051-02	2/21/2025
pH 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-23
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)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>16:35</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<i>4.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023067-01	3/14/2025
7.00a	<i>6.94</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023051-02	2/21/2025
10.00a	<i>9.95</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	022361-01	12/27/2024
SC 1000	<i>10.10</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	<i>NA</i>	Ricca	4209A12	Aug-23
DO (Zero pt)	<i>0.01</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>NA</i>	<i>NA</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0</i>	NTU	<2 NTU	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)

Comments: *NA*

Signature: <i>[Signature]</i>	Date: <i>8-21-2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Pemberton</i>		Location: <i>Edwards power station</i>	
Weather: <i>840-900h Wind Partly cloudy NE 7mph</i>		Environment: <i>grass, gravel D: 16</i>	
Multiparameter Water Meter	Make: <i>Hanna</i>	Model: <i>US000</i>	Serial Number: <i>U4U1F7VE</i>
Water Level Meter	Make: <i>Hanna</i>	Model: <i>D: 000-7</i>	Serial Number: <i>3717-T</i>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.01</i>	s.u.	±0.1 s.u.	P	NO	-	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.75</i>	s.u.	±0.1 s.u.	P	YES	7.00	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.02</i>	s.u.	±0.1 s.u.	P	NO	-	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2000</i>	µS/cm	±5%	P	-	-	Geotech	3GA1071	Jan-24
ORP	<i>226</i>	mV	±15 mV	P	-	-	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	P	-	-	Macron	#000228049	8/26/2025
DO (Saturated)	<i>18.77</i>	%	97-100%	P	-	-	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	-	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>1148</i>	<i>224 @ 29°C</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.02</i>	s.u.	±0.15 s.u.	P	-	Geotech	2GE870	May-24	
pH 7.00b	<i>6.86</i>	s.u.	±0.15 s.u.	P	-	Geotech	2GF113	Jun-24	
pH 10.00b	<i>10.05</i>	s.u.	±0.15 s.u.	P	-	Geotech	2GE820	May-24	
SC 1000	<i>1000</i>	µS/cm	±5%	P	-	Ricca	4209A12	Aug-23	

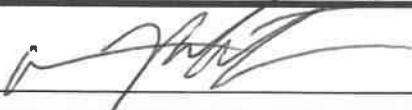
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
pH 7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
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)

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-23
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: *only one well samples*

Signature:		Date:	<i>8/21/2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Membrin</i>				Location: <i>Edwards power station</i>			
Weather: <i>73°-92° sunny wind NE Smpk</i>				Environment: <i>grass, gravel, dirt</i>			
Multiparameter Water Meter		Make: <i>Horioba</i>	Model: <i>V5000</i>	Serial Number: <i>0401FTVF</i>			
Water Level Meter		Make: <i>Heron</i>	Model: <i>Dipa-T</i>	Serial Number: <i>3717-T</i>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.92</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.64</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1960</i>	µS/cm	±5%	P	NO	N/A	Geotech	3GA1071	Jan-24
ORP	<i>236</i>	mV	±15 mV	P	NO	N/A	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	<i>113.3</i>	%	97-100%	P	YES	100.0	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

*22.9 @ 25°C*

ICV (Initial Calibration Verification)						Time: <i>0845</i>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.04</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	May-24
pH 7.00b	<i>6.88</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GF113	Jun-24
pH 10.00b	<i>9.99</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24
SC 1000	<i>994</i>	µS/cm	±5%	P	N/A	Ricca	4209A12	Aug-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>1600</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.97</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.24</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC 1000	<i>998</i>	µS/cm	±5%	P	NO	N/A	Ricca	4209A12	Aug-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	N/A	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-23
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: <i>[Signature]</i>	Date: <i>8/22/2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Kyle Lane</b>				Location: <b>Edward Power</b>					
Weather: <b>9:00 Sunny</b>				Environment: <b>DM</b>					
Multiparameter Water Meter		Make: <b>HANNA</b>	Model: <b>V-5000</b>	Serial Number: <b>PW264JD3</b>					
Water Level Meter		Make: <b>HANNA</b>	Model: <b>water tape</b>	Serial Number: <b>19FF220213ML</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.37	s.u.	±0.1 s.u.	F	yes	4.00	MSI	023067-01	3/14/2025
pH 7.00a	8.93	s.u.	±0.1 s.u.	F	na	NA	MSI	023051-02	2/21/2025
pH 10.00a	9.97	s.u.	±0.1 s.u.	F	na	NA	MSI	022361-01	12/27/2024
SC Zero (DI)	0.20	µS/cm	0<25 µS/cm	F	na	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1.970	µS/cm	±5%	F	na	NA	Geotech	3GA1071	Jan-24
ORP	2.12	mV	±15 mV	F	na	NA	InSitu	3GD927	Jan-24
DO (Zero pt)	0.08	mg/L	±0.1	F	na	NA	Macron	#000228049	8/26/2025
DO (Saturated)	97.50	%	97-100%	F	na	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.9	NTU	<2 NTU	F	na	NA	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)						Time: <b>08:40</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	NA		Geotech	2GE870	May-24
pH 7.00b	7.04	s.u.	±0.15 s.u.	F	na		Geotech	2GF113	Jun-24
pH 10.00b	10.09	s.u.	±0.15 s.u.	F	na		Geotech	2GE820	May-24
SC 1000	9.90	µS/cm	±5%	F	na		Ricca	4209A12	Aug-23
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time: <b>NA</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023067-01	3/14/2025
pH 7.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023051-02	2/21/2025
pH 10.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	022361-01	12/27/2024
SC 1000	/	µS/cm	±5%	/	/	/	Ricca	4209A12	Aug-23
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)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time: <b>1A:20</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.02	s.u.	±0.1 s.u.	P	na	NA	MSI	023067-01	3/14/2025
7.00a	7.05	s.u.	±0.1 s.u.	F	na	NA	MSI	023051-02	2/21/2025
10.00a	9.99	s.u.	±0.1 s.u.	F	na	NA	MSI	022361-01	12/27/2024
SC 1000	10.40	µS/cm	±5%	F	na	NA	Ricca	4209A12	Aug-23
DO (Zero pt)	0.01	mg/L	±0.1 mg/L	F	na	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0	NTU	<2 NTU	F	na	NA	Pace Labs	N/A (DI)	N/A (DI)
Comments: <b>NA</b>									
Signature: <b>[Signature]</b>				Date: <b>8-22-2023</b>					

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Kimberlin</i>				Location: <i>Edwards</i>			
Weather: <i>82°-97° Sunny Wind SW 7mph</i>				Environment: <i>grass, gravel, dirt</i>			
Multiparameter Water Meter		Make: <i>Hori: 6a</i>	Model: <i>V5000</i>	Serial Number: <i>U4U1FTVF</i>			
Water Level Meter		Make: <i>Heron</i>	Model: <i>D-0057</i>	Serial Number: <i>3717-7</i>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<i>7.00</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.94</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2010</i>	µS/cm	±5%	P	NO	N/A	Geotech	3GA1071	Jan-24
ORP	<i>222</i>	mV	±15 mV	P	NO	N/A	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	<i>87.6</i>	%	97-100%	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

*226 @ 27°C*

ICV (Initial Calibration Verification)					Time:
					<i>0843</i>

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.00</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	May-24
pH 7.00b	<i>6.91</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GF113	Jun-24
pH 10.00b	<i>10.07</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24
SC 1000	<i>990</i>	µS/cm	±5%	P	N/A	Ricca	4209A12	Aug-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:
					<i>1600</i>

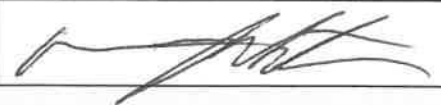
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.07</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<i>7.06</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.10</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC 1000	<i>989</i>	µS/cm	±5%	P	NO	N/A	Ricca	4209A12	Aug-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	N/A	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-23
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: 	Date: <i>8/23/23</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: KYU LAM				Location: EDWARDS POWER					
Weather: 90° Sunny				Environment: Dry					
Multiparameter Water Meter		Make: HORIBA	Model: V-5000	Serial Number: PW264303					
Water Level Meter		Make: HANNA	Model: WATER TO PL	Serial Number: 19FF220213ML					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025
pH 7.00a	6.91	s.u.	±0.1 s.u.	P	NA	NA	MSI	023051-02	2/21/2025
pH 10.00a	9.99	s.u.	±0.1 s.u.	P	NA	NA	MSI	022361-01	12/27/2024
SC Zero (DI)	0.00	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1980	µS/cm	±5%	P	NA	NA	Geotech	3GA1071	Jan-24
ORP	210	mV	±15 mV	P	NA	NA	InSitu	3GD927	Jan-24
DO (Zero pt)	0.03	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	97.00	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.6	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: 08:40			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.10	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	May-24	
pH 7.00b	6.88	s.u.	±0.15 s.u.	P	NA	Geotech	2GF113	Jun-24	
pH 10.00b	10.03	s.u.	±0.15 s.u.	P	NA	Geotech	2GE820	May-24	
SC 1000	970	µS/cm	±5%	P	NA	Ricca	4209A12	Aug-23	


Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: NA			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023067-01	3/14/2025
pH 7.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023051-02	2/21/2025
pH 10.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	022361-01	12/27/2024
SC 1000	/	µS/cm	±5%	/	/	/	Ricca	4209A12	Aug-23
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)

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	4.26	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025
7.00a	7.08	s.u.	±0.1 s.u.	P	NA	NA	MSI	023051-02	2/21/2025
10.00a	9.98	s.u.	±0.1 s.u.	P	NA	NA	MSI	022361-01	12/27/2024
SC 1000	1018	µS/cm	±5%	P	NA	NA	Ricca	4209A12	Aug-23
DO (Zero pt)	0.04	mg/L	±0.1 mg/L	P	NA	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0.8	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: 	Date: 8-23-2023
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>JD</u>				Location: <u>Vista Edwards</u>					
Weather: <u>71-81°F sunny wind NE 7-8 mph</u>				Environment: <u>grass, road</u>					
Multiparameter Water Meter		Make: <u>Hanba</u>	Model: <u>U-5000</u>	Serial Number: <u>YL9KJ9HA</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dipper-T</u>	Serial Number: <u>11FF22093054L</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>pass</u>	<u>No</u>	<u>NA</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>6.54</u>	s.u.	±0.1 s.u.	<u>fail</u>	<u>yes</u>	<u>7.00</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	<u>pass</u>	<u>No</u>	<u>NA</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>20</u>	µS/cm	0<25 µS/cm	<u>↓</u>	<u>↓</u>	<u>↓</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1970</u>	µS/cm	±5%	<u>↓</u>	<u>↓</u>	<u>↓</u>	Geotech	3GA1071	Jan-24
ORP	<u>124</u>	mV	±15 mV	<u>fail</u>	<u>yes</u>	<u>230</u>	InSitu	3GD927	Jan-24
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1	<u>pass</u>	<u>No</u>	<u>NA</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>97.7</u>	%	97-100%	<u>↓</u>	<u>↓</u>	<u>↓</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>1.2</u>	NTU	<2 NTU	<u>↓</u>	<u>↓</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>0930</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	<u>3.89</u>	s.u.	±0.15 s.u.	<u>pass</u>	<u>NA</u>		Geotech	2GE870	May-24
pH 7.00b	<u>6.73</u>	s.u.	±0.15 s.u.	<u>↓</u>	<u>↓</u>		Geotech	2GF113	Jun-24
pH 10.00b	<u>9.95</u>	s.u.	±0.15 s.u.	<u>↓</u>	<u>↓</u>		Geotech	2GE820	May-24
SC 1000	<u>954</u>	µS/cm	±5%	<u>↓</u>	<u>↓</u>		Ricca	4209A12	Aug-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):				Time: <u>8/28</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>pass</u>	<u>No</u>	<u>NA</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.09</u>	s.u.	±0.1 s.u.	<u>↓</u>	<u>↓</u>	<u>↓</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>↓</u>	<u>↓</u>	<u>↓</u>	MSI	022361-01	12/27/2024
SC 1000	<u>1030</u>	µS/cm	±5%	<u>↓</u>	<u>↓</u>	<u>↓</u>	Ricca	4209A12	Aug-23
DO (Zero pt)	<u>0.10</u>	mg/L	±0.1 mg/L	<u>↓</u>	<u>↓</u>	<u>↓</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.8</u>	NTU	<2 NTU	<u>↓</u>	<u>↓</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-23
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>8/28/23</u>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Aaron Plemberlon</b>		Location: <b>Edwards power station</b>	
Weather: <b>65°-81° Sunny wind NE 4MP</b>		Environment: <b>grass, gravel, dirt</b>	
Multiparameter Water Meter	Make: <b>Horiba</b>	Model: <b>JS008</b>	Serial Number: <b>PW26YJ D3</b>
Water Level Meter	Make: <b>Heron</b>	Model: <b>Differ 7</b>	Serial Number: <b>3717-T</b>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.01</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<b>7.00</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<b>9.98</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC Zero (DI)	<b>0.0</b>	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1990</b>	µS/cm	±5%	P	NO	N/A	Geotech	3GA1071	Jan-24
ORP	<b>233</b>	mV	±15 mV	P	NO	N/A	InSitu	3GD927	Jan-24
DO (Zero pt)	<b>0.09</b>	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	<b>99.7</b>	%	97-100%	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>2.0</b>	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	<b>3.92</b>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	May-24		
pH 7.00b	<b>7.00</b>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GF113	Jun-24		
pH 10.00b	<b>10.00</b>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24		
SC 1000	<b>978</b>	µS/cm	±5%	P	N/A	Ricca	4209A12	Aug-23		


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.	
pH 4.00a	<b>4.06</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025	
pH 7.00a	<b>7.02</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025	
pH 10.00a	<b>10.04</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024	
SC 1000	<b>988</b>	µS/cm	±5%	P	NO	N/A	Ricca	4209A12	Aug-23	
DO (Zero pt)	<b>0.09</b>	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025	
Turbidity (DI)	<b>0.0</b>	NTU	<2 NTU	P	NO	N/A	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-23	
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: 	Date: <b>8/28 /2023</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Joe Reed</b>	Location: <b>Edwards Power</b>
Weather:	Environment:

Multiparameter Water Meter	Make: <b>Horiba</b>	Model: <b>U5000</b>	Serial Number: <b>Y29KJ9HA</b>
Water Level Meter	Make: <b>Heron</b>	Model: <b>1900</b>	Serial Number: <b>19FF211192HB</b>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.04</b>	s.u.	±0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	<b>7.01</b>	s.u.	±0.1 s.u.	P	N		MSI	023051-02	2/21/2025
pH 10.00a	<b>10.05</b>	s.u.	±0.1 s.u.	P	N		MSI	022361-01	12/27/2024
SC Zero (DI)	<b>1.0</b>	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1990</b>	µS/cm	±5%	P	N		Geotech	3GA1071	Jan-24
ORP	<b>240</b>	mV	±15 mV	P	N		InSitu	3GD927	Jan-24
DO (Zero pt)	<b>0.05</b>	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	<b>97.9</b>	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.1</b>	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <b>925</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<b>4.00</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	May-24	
pH 7.00b	<b>7.98</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GF113	Jun-24	
pH 10.00b	<b>9.98</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24	
SC 1000	<b>1000</b>	µS/cm	±5%	P	N	Ricca	4209A12	Aug-23	

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.
pH 4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
pH 7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
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)

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-23
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: <b>Joseph R Reed</b>	Date: <b>8/29/23</b>
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WELL/SAMPLE POINT AP05S

Purge Method: portable pump

Date: 8-23-23 Start Time: 11:30

Finish/Sample Time: 13:04

Well Depth (Bottom) From MP: \_\_\_\_\_ ft

Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 6.07 ft

Total Purge Volume: 1.8 Gal / L

Water Column Length: \_\_\_\_\_ ft

Max Drawdown: NA ft

Well Water Volume: \_\_\_\_\_ Gal / L

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	11:50	06.43	100	7.02	1,470	26.7	-131	1.47	43.1
2	11:51	06.42	100	6.91	1,490	26.7	-132	1.30	40.9
3	11:52	06.43	100	6.88	1,490	26.6	-133	1.26	39.7
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	2.5 L HPLC
1	500 mL ZNCL

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

Ferrous Iron over range mg/L

Comments NA

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AP07S

Purge Method: Portable pump

Date: 8/28/23 Start Time: 0945 Finish/Sample Time: 1047

Well Depth (Bottom) From MP: 37.35 ft Min. Purge Volume: 1.0 Gal (L)  
 Depth to Water From MP: 25.19 ft Total Purge Volume: 1.4 Gal (L)  
 Water Column Length: 12.16 ft Max Drawdown: - ft  
 Well Water Volume: 7.36 Gal (L) Total Drawdown: 0.97 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	1007	25.77	100	6.98	1430	20.49	42	10.12	135
2	1010	25.95	100	6.97	1430	20.55	43	9.90	114
3	1012	25.98	100	6.95	1420	20.59	44	9.81	101
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)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	2.5L HNO3
1	NaOH + ZnAc

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

Ferrous Iron 0.097 mg/L

Comments Final DTW = 26.16'

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-01

Purge Method: De-scale & pump

Date: 8/22/23 Start Time: 1158 Finish/Sample Time: 1428

Well Depth (Bottom) From MP: \_\_\_\_\_ ft Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Depth to Water From MP: 10.28 ft Total Purge Volume: 1500 Gal / L (ML)  
 Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 15.62 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	1221	11.72	100	6.63	1470	24.89	-91	0.57	15.2
2	1223	11.90	100	6.64	1470	24.73	-92	0.54	10.0
3	1225	12.05	100	6.64	1450	24.70	-95	0.51	8.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horioba

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
313	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
313	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
111	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
111	General (P, 250 mL) <u>500mL 100mL</u>
111	(P, 500mL, No OH & ZnAc) <u>APP 8/22/23</u>
111	(P, 2.5L, HNO3)

15415

Filtered	
Qty	Bottles
111	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
111	General (P, 500mL) <u>1000mL</u>
313	TOC (A, V, 40mL, H2SO4)

Ferrous Iron Over range mg/L

Comments Final DTW 25.90

Sampler's Signature: [Signature]

**Site: Edwards Ash Pond**

WELL/SAMPLE POINT AW-05

Purge Method: Dedicated pump

Date: 8/28/23 Start Time: 1335 Finish/Sample Time: 1449

Well Depth (Bottom) From MP: Pump ft Min. Purge Volume: 1.0 Gal / 0

Depth to Water From MP: 8.93 ft Total Purge Volume: 1.3 Gal / 0

Water Column Length: — ft Max Drawdown: — ft

Well Water Volume: — Gal / L Total Drawdown: 0.31 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	1346	9.09	100	7.03	1720	21.49	55	0.66	645
2	1347	9.10	100	7.01	1730	21.14	40	0.65	687
3	1349	9.10	100	7.01	1730	21.45	26	0.49	697
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

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)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	2.5L HNO3
1	NaOH + Zn Ac

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

Ferrous Iron 4.189 mg/L

Comments Final DTW = 9.24'

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-06

Purge Method: Dedicated Blaster

Date: 8/28/2023 Start Time: 1450 Finish/Sample Time: 1610

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

Depth to Water From MP: 27.52 ft Total Purge Volume: 1000 Gal / L (1000)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 10.43 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	1505	29.64	100	7.08	1110	23.40	-78	2.02	43.7
2	1507	29.80	100	7.02	1110	23.37	-77	2.08	40.4
3	1509	29.97	100	7.00	1110	23.28	-85	2.00	36.3
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)
<u>3</u>	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250 mL) 1000mV
<u>1</u>	(P, 500mL, HNO3) (HCL)
<u>1</u>	(P, 250mL, HNO3)

15

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P, 500mL) 1000mV
<u>3</u>	TOC (A,V, 40mL, H2SO4)

App 8/28/23 Ferrous Iron 0.553 mg/L

Comments Final DTW 37.95 AL

Sampler's Signature: \_\_\_\_\_



Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-08

Purge Method: Descaled pump

Date: 8/28/2023 Start Time: 1315 Finish/Sample Time: 1440

Well Depth (Bottom) From MP: \_\_\_\_\_ ft Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Depth to Water From MP: 24.76 ft Total Purge Volume: \_\_\_\_\_ Gal / L  
 Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L 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	1332	24.17	100	6.88	489	19.79	-118	12.14	117
2	1334	30.34	100	6.85	436	19.89	-115	12.38	67.3
3	1336	30.34	100	6.90	455	19.83	-119	12.40	112
4	1338	30.72	100	6.83	473	19.90	-120	12.36	116
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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, 500mL, H2SO4) NaOH (H2NAC)
1	(P, 2.5L, HNO3)

15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	TOL (A, V, 40mL, H2SO4)

Ferrous Iron Over range mg/L

Comments

Final DTW 39.63 AL

check valve issues cause flow rate to fluctuate between 25-200 ml/min

Sampler's Signature: \_\_\_\_\_

*[Signature]*

WELL/SAMPLE POINT AW-09

Purge Method: Bladder pump

Date: 8/29/23 Start Time: 1000 Finish/Sample Time: 1150

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

Depth to Water From MP: 26.73 ft Total Purge Volume: 1.8 Gal

Water Column Length: — ft Max Drawdown: — ft

Well Water Volume: — Gal / L Total Drawdown: 12.22 ft

End DTW  
38.95

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	1030	2980	100	7.18	1470	18.25	-90	4.84	211
2	1031	2999	100	7.13	1490	18.23	-93	4.69	194
3	1032	3021	100	7.12	1500	18.20	-94	4.50	177
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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	2.5 L HNO3
1	Zn acetate 500mL

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

Ferrous Iron Over Range mg/L

Comments

Sampler's Signature: Joseph R Paul

WELL/SAMPLE POINT AW-10

Purge Method: Desiccated Bladder

Date: 8/28/2023 Start Time: 1115 Finish/Sample Time: 1304

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

Depth to Water From MP: 2.35 ft Total Purge Volume: 1500 Gal / L (L)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 3.40 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	1158	4.04	100	6.43	2370	20.30	-107	0.00	0.0
2	1200	4.14	100	6.42	2370	20.35	-110	0.00	0.0
3	1202	4.24	100	6.42	2370	20.29	-111	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)
<u>3</u>	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250mL) 1000mL
<u>1</u>	(P, 500mL NaOH + 200mL)
<u>1</u>	(P, 2.5L, HNO3)

15

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P,500mL)
<u>3</u>	TOC (A,V, 40mL, H2SO4)

Ferrous Iron over range mg/L

Comments Final DTW 5.75 ft

Sampler's Signature: \_\_\_\_\_

*[Handwritten Signature]*

**Site: Edwards Ash Pond**

WELL/SAMPLE POINT AW-11

Purge Method: Def: cable & bladder

Date: 8/28/2023 Start Time: 0945 Finish/Sample Time: 1110

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

Depth to Water From MP: 6.37 ft Total Purge Volume: 1500 Gal / L (ml)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 0.0 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	1005	6.37	100	6.30	2010	16.83	-94	0.23	120
2	1007	6.37	100	6.29	1990	16.75	-95	0.21	108
3	1009	6.37	100	6.29	1990	16.78	-96	0.24	100
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
<u>3</u>	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250ml) <u>100ml</u>
<u>1</u>	(P, 500ml, NaOH + 2n Ac)
<u>1</u>	(P, 2.5L, HNO3)

15

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P, 500ml) <u>100ml</u>
<u>3</u>	TOC (A, 40mL, H2SO4)

AP/ 7/25/23  
 Ferrous Iron 6. OVER RANGE mg/L

Comments Final 1 TW - 6.37 ft

Sampler's Signature: \_\_\_\_\_

Site: **Edwards Ash Pond**

WELL/SAMPLE POINT AW-14

Purge Method: Dedicated Bladder

Date: 8/23/23 Start Time: 1430 Finish/Sample Time: 1553

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

Depth to Water From MP: 7.06 ft Total Purge Volume: 1500 Gal / L mL

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 10.00 ft

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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	1448	8.43	100	7.14	1650	23.10	-130	1.16	0.0
2	1450	8.95	100	7.07	1680	23.16	-132	1.13	0.0
3	1452	9.10	100	6.99	1720	23.25	-132	1.09	0.0
4	<del>_____</del>								
5	<del>_____</del>								
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

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

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
3	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, 500mL, NaOH & ZNAC)
1	(P, 250mL, HNO3)

15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
3	General (P, 500mL) 1000mL
	TOC (A,V, 40mL, H2SO4)

Ferrous Iron 0.06 / range mg/L

Comments Final DEW 17.06

Sampler's Signature: \_\_\_\_\_

WELL/SAMPLE POINT AW-15

Purge Method: Desiccated Blaster

Date: 8/23/23 Start Time: 1130 Finish/Sample Time: 1255

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

Depth to Water From MP: 9.00 ft Total Purge Volume: 1500 Gal / L (mL)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 0.20 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	1149	9.17	100	6.78	2040	19.34	-139	0.55	0.0
2	1151	9.18	100	6.78	2040	19.40	-140	0.42	0.0
3	1153	9.19	100	6.78	2050	19.48	-140	0.45	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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
<u>3</u>	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250 mL) 1000 mL
<u>1</u>	(P, 500 mL NaOH vial)
<u>1</u>	(P, 250 mL, HNO3)

(15)

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P, 500 mL) 1000 mL
<u>3</u>	TOC (A,V, 40mL, H2SO4)

Ferrous Iron Over range mg/L

Comments: Final DTU 09.20

Sampler's Signature: \_\_\_\_\_

WELL/SAMPLE POINT AW-15S

Purge Method: Descaler Bladder

Date: 8/23/23 Start Time: 1258 Finish/Sample Time: 1425

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

Depth to Water From MP: 1.75 ft Total Purge Volume: 1500 Gal / L (ML)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 5.00 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	1318	10.95	100	6.92	1720	25.12	-30	0.40	0.0
2	1320	11.00	100	6.92	1730	25.05	-29	0.39	0.0
3	1322	11.05	100	6.92	1730	25.10	-29	0.35	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hor:60

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
<u>3</u>	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250 mL)
<u>1</u>	(P, 500mL, NaOH & ZnAc)
<u>1</u>	(P, 250mL, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P, 500mL) <u>1000mL</u>
<u>3</u>	TOC (A, V, 40mL, H2SO4)

Ferrous Iron 0.433 mg/L

Comments Final DTW 14.75 PL

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-16

Purge Method: Dedicator Pump

Date: 8-21-23 Start Time: 12:05 Finish/Sample Time: 14:18 1428 L

Well Depth (Bottom) From MP: 56.80 ft Top of Pump Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 25.21 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: 31.59 ft Max Drawdown: NA ft

Well Water Volume: 5.054 Gal / L Total Drawdown: \_\_\_\_\_ ft

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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	12:25	25.87	100	7.01	2,000	20.92	-119	0.21	9.0
2	12:26	25.90	100	6.99	1,990	20.89	-120	0.18	8.5
3	12:27	25.91	100	6.96	1,970	20.81	-120	0.12	9.7
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
<u>1</u>	VOAs (C,V, 40mL, HCL)
<u>3+3</u>	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3+3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1+1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1+1</u>	General (P, 250 mL)
<u>1+1</u>	<u>2.5 L HNO3</u>
<u>1+1</u>	<u>P, 500 mL, ZNAC</u>

30

Filtered	
Qty	Bottles
<u>1+1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1+1</u>	General (P,500mL)
<u>3+3</u>	<u>TOC</u>

Ferrous Iron 5.161 mg/L

Comments FD-26.11 DUP were GRABED

Sampler's Signature: [Signature]



WELL/SAMPLE POINT AW-17

Purge Method: Dedicated Pump

Date: 8-21-23 Start Time: 14:32 Finish/Sample Time: 16:01

Well Depth (Bottom) From MP: 56.62 ft TOP OF PUMP Min. Purge Volume: 1.5 Gal / L  
 Depth to Water From MP: 26.14 ft Total Purge Volume: 1.8 Gal / L  
 Water Column Length: 30.48 ft Max Drawdown: NA ft  
 Well Water Volume: 4,876 Gal / L 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	14:50	26.84	100	7.04	1,620	25.29	-103	1.53	137
2	14:51	26.82	100	6.99	1,630	25.15	-104	1.41	141
3	14:52	26.83	100	6.95	1,620	25.08	-106	1.30	140
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	2.5 L HNO3
1	500 mL ZNAC

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Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	40L 40 mL

Ferrous Iron OVER RANGE mg/L

Comments FD → 27.91

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-18

Purge Method: Dedicated Pump

Date: 8-22-23 Start Time: 09:43 Finish/Sample Time: 11:11

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Depth to Water From MP: 27.97 ft  
 Water Column Length: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L  
 Min. Purge Volume: 1.5 Gal / L  
 Total Purge Volume: 1.8 Gal / L  
 Max Drawdown: NA 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	10:03	29.48	100	6.62	1,740	18.92	-117	1.30	33.7
2	10:04	29.51	100	6.60	1,730	18.91	-118	1.15	32.9
3	10:05	29.56	100	6.59	1,730	18.99	-119	1.05	29.3
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	25 L HNO3
1	500 mL ZANAL

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

Ferrous Iron over range mg/L

Comments FD → 32.11

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-19

Purge Method: Dedicated Pump

Date: 8-22-23 Start Time: 11:30 Finish/Sample Time: 12:57

Well Depth (Bottom) From MP: \_\_\_\_\_ ft Min. Purge Volume: 1.5 Gal / L  
 Depth to Water From MP: 14.10 ft Total Purge Volume: 1.8 Gal / L  
 Water Column Length: \_\_\_\_\_ ft Max Drawdown: NA ft  
 Well Water Volume: \_\_\_\_\_ Gal / L 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	11:50	16.03	100	6.51	1,050	20.01	-58	1.10	2.79
2	11:51	16.11	100	6.50	1,060	20.07	-58	1.00	26.8
3	11:52	16.20	100	6.49	1,050	20.03	-57	0.96	24.6
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanlon

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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	2.5 L HNO3
1	500 mL ZnAc

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

Ferrous Iron 2.673 mg/L

Comments FD - 18.12

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-21

Purge Method: Dedicated Pump

Date: 8-22-23 Start Time: 14:40 Finish/Sample Time: 16:07

Well Depth (Bottom) From MP:      ft  
 Min. Purge Volume: 1.5 Gal / L  
 Depth to Water From MP: 17.47 ft  
 Total Purge Volume: 1.8 Gal / L  
 Water Column Length:      ft  
 Max Drawdown: NA ft  
 Well Water Volume:      Gal / L  
 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	14:58	18.80	100	6.55	1,040	18.73	141	7.89	16.2
2	14:59	18.84	100	6.54	1,040	18.64	136	7.74	15.7
3	15:00	18.88	100	6.53	1,050	18.59	130	7.69	15.0
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
6	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	2.5 L HNO3
1	500 mL H2O

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

Ferrous Iron 5.247 mg/L  
 Over Range <sup>BC</sup> 9/12/23

Comments FD 19.89

Sampler's Signature: [Signature]

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Kyle Lane</i>				Location: <i>EDWARD Power</i>					
Weather: <i>84° to 93° sunny</i>				Environment: <i>dry</i>					
Multiparameter Water Meter		Make: <i>Haniba</i>	Model: <i>V-5000</i>	Serial Number: <i>PW264J03</i>					
Water Level Meter		Make: <i>Heron</i>	Model: <i>water table</i>	Serial Number: <i>19FF220213/ML</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.95</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2040</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	<i>NA</i>	Geotech	3GA1071	Jan-24
ORP	<i>7.14</i>	mV	±15 mV	<i>P</i>	<i>NA</i>	<i>NA</i>	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.01</i>	mg/L	±0.1	<i>P</i>	<i>NA</i>	<i>NA</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.00</i>	%	97-100%	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.40</i>	NTU	<2 NTU	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <i>16:40</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.94</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GE870	May-24	
pH 7.00b	<i>7.01</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GF113	Jun-24	
pH 10.00b	<i>10.03</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GE820	May-24	
SC 1000	<i>10.32</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	Ricca	4209A12	Aug-23	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>NA</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023051-02	2/21/2025
pH 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-23
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)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>16:35</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<i>4.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023067-01	3/14/2025
7.00a	<i>6.94</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023051-02	2/21/2025
10.00a	<i>9.95</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	022361-01	12/27/2024
SC 1000	<i>10.10</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	<i>NA</i>	Ricca	4209A12	Aug-23
DO (Zero pt)	<i>0.01</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>NA</i>	<i>NA</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0</i>	NTU	<2 NTU	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)

Comments: *NA*

Signature: <i>[Signature]</i>	Date: <i>8-21-2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Pemberton</i>		Location: <i>Edwards power station</i>	
Weather: <i>840-900h Wind Partly cloudy NE 7mph</i>		Environment: <i>grass, gravel D:16</i>	
Multiparameter Water Meter	Make: <i>Hanna</i>	Model: <i>US000</i>	Serial Number: <i>U4U1FTVE</i>
Water Level Meter	Make: <i>Hanna</i>	Model: <i>D:000-1</i>	Serial Number: <i>3717-T</i>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.01</i>	s.u.	±0.1 s.u.	P	NO	-	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.75</i>	s.u.	±0.1 s.u.	P	YES	7.00	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.02</i>	s.u.	±0.1 s.u.	P	NO	-	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2000</i>	µS/cm	±5%	P	-	-	Geotech	3GA1071	Jan-24
ORP	<i>226</i>	mV	±15 mV	P	-	-	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	P	-	-	Macron	#000228049	8/26/2025
DO (Saturated)	<i>18.77</i>	%	97-100%	P	-	-	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	-	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>1148</i>	<i>224 @ 29°C</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.02</i>	s.u.	±0.15 s.u.	P	-	Geotech	2GE870	May-24	
pH 7.00b	<i>6.86</i>	s.u.	±0.15 s.u.	P	-	Geotech	2GF113	Jun-24	
pH 10.00b	<i>10.05</i>	s.u.	±0.15 s.u.	P	-	Geotech	2GE820	May-24	
SC 1000	<i>1000</i>	µS/cm	±5%	P	-	Ricca	4209A12	Aug-23	

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.
pH 4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
pH 7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
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)

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-23
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: *only one well samples*

Signature:		Date:	<i>8/21/2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Membrin</i>				Location: <i>Edwards power station</i>			
Weather: <i>73°-92° sunny wind NE Smpk</i>				Environment: <i>grass, gravel, dirt</i>			
Multiparameter Water Meter		Make: <i>Horiya</i>	Model: <i>V5000</i>	Serial Number: <i>0401FTVF</i>			
Water Level Meter		Make: <i>Heron</i>	Model: <i>Dipa-T</i>	Serial Number: <i>3717-T</i>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.92</i>	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	<i>9.64</i>	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1960</i>	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	<i>236</i>	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	<i>113.3</i>	%	97-100%		yes	100.0	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

*229 @ 25°C*

ICV (Initial Calibration Verification)						Time: <i>0845</i>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.04</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	May-24
pH 7.00b	<i>6.88</i>	s.u.	±0.15 s.u.	P		Geotech	2GF113	Jun-24
pH 10.00b	<i>9.99</i>	s.u.	±0.15 s.u.	P		Geotech	2GE820	May-24
SC 1000	<i>994</i>	µS/cm	±5%			Ricca	4209A12	Aug-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>1600</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.97</i>	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	<i>10.24</i>	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC 1000	<i>998</i>	µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU				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-23
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: 	Date: <i>8/22/2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Kyle Larr</b>				Location: <b>Edward Power</b>					
Weather: <b>9:00 Sunny</b>				Environment: <b>DM</b>					
Multiparameter Water Meter		Make: <b>HANNA</b>	Model: <b>V-5000</b>	Serial Number: <b>PW264JD3</b>					
Water Level Meter		Make: <b>HANNA</b>	Model: <b>water tape</b>	Serial Number: <b>19FF220213ML</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.37</b>	s.u.	±0.1 s.u.	<b>F</b>	<b>yes</b>	<b>4.00</b>	MSI	023067-01	3/14/2025
pH 7.00a	<b>8.93</b>	s.u.	±0.1 s.u.	<b>F</b>	<b>no</b>	<b>NA</b>	MSI	023051-02	2/21/2025
pH 10.00a	<b>9.97</b>	s.u.	±0.1 s.u.	<b>F</b>	<b>no</b>	<b>NA</b>	MSI	022361-01	12/27/2024
SC Zero (DI)	<b>0.20</b>	µS/cm	0<25 µS/cm	<b>F</b>	<b>no</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1.970</b>	µS/cm	±5%	<b>F</b>	<b>no</b>	<b>NA</b>	Geotech	3GA1071	Jan-24
ORP	<b>2.12</b>	mV	±15 mV	<b>F</b>	<b>no</b>	<b>NA</b>	InSitu	3GD927	Jan-24
DO (Zero pt)	<b>0.08</b>	mg/L	±0.1	<b>F</b>	<b>no</b>	<b>NA</b>	Macron	#000228049	8/26/2025
DO (Saturated)	<b>97.50</b>	%	97-100%	<b>F</b>	<b>no</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.9</b>	NTU	<2 NTU	<b>F</b>	<b>no</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)						Time: <b>08:40</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	<b>4.01</b>	s.u.	±0.15 s.u.	<b>P</b>	<b>NA</b>		Geotech	2GE870	May-24
pH 7.00b	<b>7.04</b>	s.u.	±0.15 s.u.	<b>F</b>	<b>NA</b>		Geotech	2GF113	Jun-24
pH 10.00b	<b>10.09</b>	s.u.	±0.15 s.u.	<b>F</b>	<b>NA</b>		Geotech	2GE820	May-24
SC 1000	<b>9.90</b>	µS/cm	±5%	<b>F</b>	<b>NA</b>		Ricca	4209A12	Aug-23
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time: <b>NA</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.02</b>	s.u.	±0.1 s.u.	<b>F</b>	<b>no</b>	<b>NA</b>	MSI	023067-01	3/14/2025
pH 7.00a	<b>7.05</b>	s.u.	±0.1 s.u.	<b>F</b>	<b>no</b>	<b>NA</b>	MSI	023051-02	2/21/2025
pH 10.00a	<b>9.99</b>	s.u.	±0.1 s.u.	<b>F</b>	<b>no</b>	<b>NA</b>	MSI	022361-01	12/27/2024
SC 1000	<b>10.40</b>	µS/cm	±5%	<b>F</b>	<b>no</b>	<b>NA</b>	Ricca	4209A12	Aug-23
DO (Zero pt)	<b>0.01</b>	mg/L	±0.1 mg/L	<b>F</b>	<b>no</b>	<b>NA</b>	Macron	#000228049	8/26/2025
Turbidity (DI)	<b>0.9</b>	NTU	<2 NTU	<b>F</b>	<b>no</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time: <b>1A:20</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<b>4.02</b>	s.u.	±0.1 s.u.	<b>F</b>	<b>no</b>	<b>NA</b>	MSI	023067-01	3/14/2025
7.00a	<b>7.05</b>	s.u.	±0.1 s.u.	<b>F</b>	<b>no</b>	<b>NA</b>	MSI	023051-02	2/21/2025
10.00a	<b>9.99</b>	s.u.	±0.1 s.u.	<b>F</b>	<b>no</b>	<b>NA</b>	MSI	022361-01	12/27/2024
SC 1000	<b>10.40</b>	µS/cm	±5%	<b>F</b>	<b>no</b>	<b>NA</b>	Ricca	4209A12	Aug-23
DO (Zero pt)	<b>0.01</b>	mg/L	±0.1 mg/L	<b>F</b>	<b>no</b>	<b>NA</b>	Macron	#000228049	8/26/2025
Turbidity (DI)	<b>0.9</b>	NTU	<2 NTU	<b>F</b>	<b>no</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)
Comments: <b>NA</b>									
Signature: <b>[Signature]</b>				Date: <b>8-22-2023</b>					



## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Kimberlin</i>				Location: <i>Edwards</i>					
Weather: <i>82°-97° Sunny Wind SW 7mph</i>				Environment: <i>grass, gravel, dirt</i>					
Multiparameter Water Meter		Make: <i>Hori: 6a</i>	Model: <i>V5000</i>	Serial Number: <i>U4U1FTVF</i>					
Water Level Meter		Make: <i>Heron</i>	Model: <i>D-0057</i>	Serial Number: <i>3717-7</i>					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>7.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.94</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2010</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Geotech	3GA1071	Jan-24
ORP	<i>222</i>	mV	±15 mV	<i>P</i>	<i>NO</i>	<i>N/A</i>	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	<i>P</i>	<i>NO</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>87.6</i>	%	97-100%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

*226@27°C*

ICV (Initial Calibration Verification)					Time:
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?
pH 4.00b	<i>4.00</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>
pH 7.00b	<i>6.91</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>
pH 10.00b	<i>10.07</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>
SC 1000	<i>990</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>

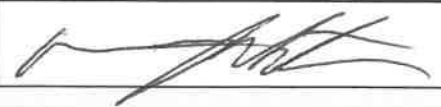
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:	
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
pH 4.00a	<i>4.07</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>
pH 7.00a	<i>7.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>
pH 10.00a	<i>10.10</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>
SC 1000	<i>989</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>N/A</i>
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>NO</i>	<i>N/A</i>
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>

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-23
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: 	Date: <i>8/23/23</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>KYU LAM</b>				Location: <b>EDWARD POWER</b>					
Weather: <b>90° Sunny</b>				Environment: <b>Dry</b>					
Multiparameter Water Meter		Make: <b>HORIBA</b>	Model: <b>V-5000</b>	Serial Number: <b>PW264303</b>					
Water Level Meter		Make: <b>HERON</b>	Model: <b>water to PL</b>	Serial Number: <b>19FF220213ML</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.08</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>NA</b>	<b>NA</b>	MSI	023067-01	3/14/2025
pH 7.00a	<b>6.91</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>NA</b>	<b>NA</b>	MSI	023051-02	2/21/2025
pH 10.00a	<b>9.99</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>NA</b>	<b>NA</b>	MSI	022361-01	12/27/2024
SC Zero (DI)	<b>0.00</b>	µS/cm	0<25 µS/cm	<b>P</b>	<b>NA</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1980</b>	µS/cm	±5%	<b>P</b>	<b>NA</b>	<b>NA</b>	Geotech	3GA1071	Jan-24
ORP	<b>210</b>	mV	±15 mV	<b>P</b>	<b>NA</b>	<b>NA</b>	InSitu	3GD927	Jan-24
DO (Zero pt)	<b>0.03</b>	mg/L	±0.1	<b>P</b>	<b>NA</b>	<b>NA</b>	Macron	#000228049	8/26/2025
DO (Saturated)	<b>92.00</b>	%	97-100%	<b>P</b>	<b>NA</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.6</b>	NTU	<2 NTU	<b>P</b>	<b>NA</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <b>08:40</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<b>4.10</b>	s.u.	±0.15 s.u.	<b>P</b>	<b>NA</b>	Geotech	2GE870	May-24	
pH 7.00b	<b>6.88</b>	s.u.	±0.15 s.u.	<b>P</b>	<b>NA</b>	Geotech	2GF113	Jun-24	
pH 10.00b	<b>10.03</b>	s.u.	±0.15 s.u.	<b>P</b>	<b>NA</b>	Geotech	2GE820	May-24	
SC 1000	<b>970</b>	µS/cm	±5%	<b>P</b>	<b>NA</b>	Ricca	4209A12	Aug-23	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <b>NA</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.08</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>NA</b>	<b>NA</b>	MSI	023067-01	3/14/2025
pH 7.00a	<b>6.91</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>NA</b>	<b>NA</b>	MSI	023051-02	2/21/2025
pH 10.00a	<b>9.99</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>NA</b>	<b>NA</b>	MSI	022361-01	12/27/2024
SC 1000	<b>970</b>	µS/cm	±5%	<b>P</b>	<b>NA</b>	<b>NA</b>	Ricca	4209A12	Aug-23
DO (Zero pt)	<b>0.03</b>	mg/L	±0.1 mg/L	<b>P</b>	<b>NA</b>	<b>NA</b>	Macron	#000228049	8/26/2025
Turbidity (DI)	<b>0.6</b>	NTU	<2 NTU	<b>P</b>	<b>NA</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <b>NA</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<b>4.06</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>NA</b>	<b>NA</b>	MSI	023067-01	3/14/2025
7.00a	<b>7.00</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>NA</b>	<b>NA</b>	MSI	023051-02	2/21/2025
10.00a	<b>9.98</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>NA</b>	<b>NA</b>	MSI	022361-01	12/27/2024
SC 1000	<b>1018</b>	µS/cm	±5%	<b>P</b>	<b>NA</b>	<b>NA</b>	Ricca	4209A12	Aug-23
DO (Zero pt)	<b>0.04</b>	mg/L	±0.1 mg/L	<b>P</b>	<b>NA</b>	<b>NA</b>	Macron	#000228049	8/26/2025
Turbidity (DI)	<b>0.8</b>	NTU	<2 NTU	<b>P</b>	<b>NA</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <b>[Signature]</b>	Date: <b>8-23-2023</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>JD</u>				Location: <u>Vista Edwards</u>					
Weather: <u>71-81°F sunny wind NE 7-8 mph</u>				Environment: <u>grass, road</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>U-5000</u>	Serial Number: <u>YL9KJ9HA</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dipper-T</u>	Serial Number: <u>11FF22093054L</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>pass</u>	<u>No</u>	<u>NA</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>6.54</u>	s.u.	±0.1 s.u.	<u>fail</u>	<u>yes</u>	<u>7.00</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	<u>pass</u>	<u>No</u>	<u>NA</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>20</u>	µS/cm	0<25 µS/cm	<u>↓</u>	<u>↓</u>	<u>↓</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1970</u>	µS/cm	±5%	<u>↓</u>	<u>↓</u>	<u>↓</u>	Geotech	3GA1071	Jan-24
ORP	<u>124</u>	mV	±15 mV	<u>fail</u>	<u>yes</u>	<u>230</u>	InSitu	3GD927	Jan-24
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1	<u>pass</u>	<u>No</u>	<u>NA</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>97.7</u>	%	97-100%	<u>↓</u>	<u>↓</u>	<u>↓</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>1.2</u>	NTU	<2 NTU	<u>↓</u>	<u>↓</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>0930</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.89</u>	s.u.	±0.15 s.u.	<u>pass</u>	<u>NA</u>	Geotech	2GE870	May-24	
pH 7.00b	<u>6.73</u>	s.u.	±0.15 s.u.	<u>↓</u>	<u>↓</u>	Geotech	2GF113	Jun-24	
pH 10.00b	<u>9.95</u>	s.u.	±0.15 s.u.	<u>↓</u>	<u>↓</u>	Geotech	2GE820	May-24	
SC 1000	<u>954</u>	µS/cm	±5%	<u>↓</u>	<u>↓</u>	Ricca	4209A12	Aug-23	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>8/28</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>pass</u>	<u>No</u>	<u>NA</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.09</u>	s.u.	±0.1 s.u.	<u>↓</u>	<u>↓</u>	<u>↓</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>↓</u>	<u>↓</u>	<u>↓</u>	MSI	022361-01	12/27/2024
SC 1000	<u>1030</u>	µS/cm	±5%	<u>↓</u>	<u>↓</u>	<u>↓</u>	Ricca	4209A12	Aug-23
DO (Zero pt)	<u>0.10</u>	mg/L	±0.1 mg/L	<u>↓</u>	<u>↓</u>	<u>↓</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.8</u>	NTU	<2 NTU	<u>↓</u>	<u>↓</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-23
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>8/28/23</u>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Aaron Plemberlon</b>		Location: <b>Edwards power station</b>	
Weather: <b>65°-81° Sunny wind NE 4MP</b>		Environment: <b>grass, gravel, dirt</b>	
Multiparameter Water Meter	Make: <b>Horiba</b>	Model: <b>JS008</b>	Serial Number: <b>PW26YJ D3</b>
Water Level Meter	Make: <b>Heron</b>	Model: <b>Differ 7</b>	Serial Number: <b>3717-T</b>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.01</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<b>7.00</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<b>9.98</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC Zero (DI)	<b>0.0</b>	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1990</b>	µS/cm	±5%	P	NO	N/A	Geotech	3GA1071	Jan-24
ORP	<b>233</b>	mV	±15 mV	P	NO	N/A	InSitu	3GD927	Jan-24
DO (Zero pt)	<b>0.09</b>	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	<b>9.97</b>	%	97-100%	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>2.0</b>	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <b>0924</b>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<b>3.92</b>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	May-24	
pH 7.00b	<b>7.00</b>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GF113	Jun-24	
pH 10.00b	<b>10.00</b>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24	
SC 1000	<b>978</b>	µS/cm	±5%	P	N/A	Ricca	4209A12	Aug-23	


Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <b>1617</b>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.06</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<b>7.02</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<b>10.04</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC 1000	<b>988</b>	µS/cm	±5%	P	NO	N/A	Ricca	4209A12	Aug-23
DO (Zero pt)	<b>0.09</b>	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	<b>0.0</b>	NTU	<2 NTU	P	NO	N/A	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-23
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: 	Date: <b>8/28 /2023</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Joe Reed</b>	Location: <b>Edwards Power</b>
Weather:	Environment:

Multiparameter Water Meter	Make: <b>Horiba</b>	Model: <b>U5000</b>	Serial Number: <b>Y29KJ9HA</b>
Water Level Meter	Make: <b>Heron</b>	Model: <b>1900</b>	Serial Number: <b>19FF211192HB</b>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.04</b>	s.u.	±0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	<b>7.01</b>	s.u.	±0.1 s.u.	P	N		MSI	023051-02	2/21/2025
pH 10.00a	<b>10.05</b>	s.u.	±0.1 s.u.	P	N		MSI	022361-01	12/27/2024
SC Zero (DI)	<b>1.0</b>	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1990</b>	µS/cm	±5%	P	N		Geotech	3GA1071	Jan-24
ORP	<b>240</b>	mV	±15 mV	P	N		InSitu	3GD927	Jan-24
DO (Zero pt)	<b>0.05</b>	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	<b>97.9</b>	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.1</b>	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <b>925</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<b>4.00</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	May-24	
pH 7.00b	<b>7.98</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GF113	Jun-24	
pH 10.00b	<b>10.98</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24	
SC 1000	<b>1000</b>	µS/cm	±5%	P	N	Ricca	4209A12	Aug-23	

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.
pH 4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
pH 7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
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)

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-23
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: <b>Joseph R Reed</b>	Date: <b>8/29/23</b>
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GH04348  
VMW 8-22-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		REGULATORY AGENCY	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		NPDES    GROUND WATER    DRINKING WATER	
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		UST    RCRA    OTHER	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		Site Location	
Phone: (217) 753-8911    Fax:		Project Name:		Project Reference:		STATE: <b>IL</b>	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Profile #:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX    CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.			
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	EDW-257-301	EDW-845-301		EDW-SUP-000	EDW-CAP-301							
1		AW-19																										
2		AW-20																										
3		AW-21																										
4		AW-23																										
5		EMW-05																										
6		SG-01																										
7		SG-02																										
8		SG-03																										
9		XPW01A	WT 6			8/21/23	1515		X	X	X																	
10		XPW02																										
11		XPW03																										
12		Field Blank																										
13		AW 16 Dup	WT 6			8/21/23	1428		X	X	X																	
14		XPW01A Dup	WT 6			8/21/23	1515		X	X	X																	
15																												
16																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<b>EDW-23Q3-Rev 0</b>	<i>[Signature]</i>	8/21/23	1707	<i>[Signature]</i>	8-22-23	700	0.6	Y	N	Y	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Brian Voelker</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY): 08/21/23			

GHO 4553  
√mw 8.22.23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 1 of 2	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</b>	
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		UST    RCRA    OTHER	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		Site Location STATE: <b>IL</b>	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (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 ↓ Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.
		MATRIX	CODE			DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301		
1	AP05S																							
2	AP07S																							
3	APW-01																							
4	AW-01			WTG		8/22/23	1428		1S	X	X	X												
5	AW-05																							
6	AW-06																							
7	AW-08																							
8	AW-09																							
9	AW-10																							
10	AW-11																							
11	AW-14																							
12	AW-15																							
13	AW-15S																							
14	AW-16																							
15	AW-17																							
16	AW-18			WTG		8/22/23	1111		1S	X	X	X												

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS				
<b>EDW-23Q3-Rev 0</b>		<i>[Signature]</i>		8/22/23	1640	<i>[Signature]</i>		8-22-23	1640	18.2	Y	N	Y	
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Anna Remberka</i>														
SIGNATURE of SAMPLER: <i>[Signature]</i>														
										DATE Signed (MM/DD/YY): 08/22/23				



GHO4553  
Vmw 8-22-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 2 of 2	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</b>	
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		UST    RCRA    OTHER	
Phone: (217) 753-8911    Fax:		Project Name:		Quote Reference:		Site Location STATE: <b>IL</b>	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX    CODE DRINKING WATER    DW WATER    WT WASTE WATER    WW PRODUCT    P SOL/SOLID    SL OIL    OL 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	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301			
1	AW-19		WT	G	8/22/23	1257	16	X	X	X														
2	AW-20		WT	G	8/22/23	1434	15	X	X	X														
3	AW-21		WT	G	8/23/23	1604	15	X	X	X														
4	AW-23																							
5	EMW-05																							
6	SG-01																							
7	SG-02																							
8	SG-03																							
9	XPW01A																							
10	XPW02		WT	G	8/22/23	1557	15	X	X	X														
11	XPW03																							
12	Field Blank		WT	G	8/22/23	1111	15	X	X	X														
13	AW01 Dup		WT	G	8/22/23	1428	15	X	X	X														
14																								
15																								
16																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<b>EDW-23Q3-Rev 0</b>	<i>[Signature]</i>	8/22/23	1640	<i>[Signature]</i>	8-22-23	1640	18.2	Y	N	Y
<b>SAMPLER NAME AND SIGNATURE</b>							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Aaron Remberton</i>										
SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DD/YY): 08/22/23										

G1101842  
VMW 8-23-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>	
Company: <u>Vistra Corp</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		NPDES    GROUND WATER    DRINKING WATER	
Address: <u>13498 E. 900th St</u>		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>		UST    RCRA    OTHER	
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Address: <u>see Section A</u>		Site Location	
Phone: (217) 753-8911    Fax:		Project Name:		Quote Reference:		STATE: <u>IL</u>	
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Project Manager:		Profile #:	

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	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol					Other
1	AP05S		WT	G	8/23/23	1304	15	X	X	X										
2	AP07S																			
3	APW-01		WT	G	8/23/23	1442	15	X	X	Y										
4	AW-01																			
5	AW-05																			
6	AW-06																			
7	AW-08																			
8	AW-09																			
9	AW-10																			
10	AW-11																			
11	AW-14		WT	G	8/23/23	1553	15	X	X	X										
12	AW-15		WT	G	8/23/23	1255	15	X	X	X										
13	AW-15S		WT	G	8/23/23	1425	15	X	X	X										
14	AW-16																			
15	AW-17																			
16	AW-18																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>[Signature]</i>	8/23/23	1634	<i>[Signature]</i>	8-23-23	1634	11.7	Y	N	Y
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: <u>Aaron Remington</u>				SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed (MM/DDYY): <u>08/23/23</u>				



GH05495  
VMW 8-29-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<table border="1"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> <tr> <td colspan="2">Site Location</td> <td>IL</td> </tr> <tr> <td colspan="2">Requested Due Date/TAT:</td> <td>10 day</td> </tr> </table>			REGULATORY AGENCY			NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER	Site Location		IL	Requested Due Date/TAT:		10 day
REGULATORY AGENCY																							
NPDES	GROUND WATER	DRINKING WATER																					
UST	RCRA	OTHER																					
Site Location		IL																					
Requested Due Date/TAT:		10 day																					
Company: <b>Vistra Corp</b>	Report To: <b>Brian Voelker</b>	Attention: <b>Jason Stuckey</b>	Company Name: <b>Vistra Corp</b>																				
Address: <b>13498 E. 900th St</b>	Copy To: <b>Jason Stuckey</b>	Address: <b>see Section A</b>																					
Email To: <b>Brian.Voelker@VistraCorp.com</b>	Purchase Order No.:	Quote Reference:																					
Phone: <b>(217) 753-8911</b> Fax:	Project Name:	Project Manager:																					
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		STATE: <b>IL</b>																	

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIFE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No / Lab I.D.	
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301			
																								Requested Analysis Filtered (Y/N)
1	AP05S																							
2	AP07S		WT 6		8/28/23	1047	15	X	X	X														
3	APW-01																							
4	AW-01																							
5	AW-05		WT 6		8/28/23	1449	15	X	X	X														
6	AW-06		WT 6		8/28/23	1610	15	X	X	X														
7	AW-08		WT 6		8/28/23	1440	15	X	X	X														
8	AW-09																							
9	AW-10		WT 6		8/28/23	1304	15	X	X	X														
10	AW-11		WT 6		8/28/23	1110	15	X	X	X														
11	AW-14																							
12	AW-15																							
13	AW-15S																							
14	AW-16																							
15	AW-17																							
16	AW-18																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
<b>EDW-23Q3-Rev 0</b>	<i>[Signature]</i>	08/28/23	1701	<i>[Signature]</i>	8-29-23	700	2.9	Y	N	Y			

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Arron Rembert</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/28/23		

GH05495  
VMW 8-29-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> <tr> <td colspan="2">Site Location</td> <td>IL</td> </tr> <tr> <td colspan="2">STATE:</td> <td></td> </tr> </table>			REGULATORY AGENCY			NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER	Site Location		IL	STATE:		
REGULATORY AGENCY																							
NPDES	GROUND WATER	DRINKING WATER																					
UST	RCRA	OTHER																					
Site Location		IL																					
STATE:																							
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>																			
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>																			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>																			
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:																			
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:																			
				Profile #:																			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N ↓ Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301		
1	AW-19																						
2	AW-20																						
3	AW-21																						
4	AW-23																						
5	EMW-05		WT	G	8/28/23	1320	15	X	X	X													
6	SG-01																						
7	SG-02																						
8	SG-03																						
9	XPW01A																						
10	XPW02																						
11	XPW03		WT	G	8/28/23	1616	15	X	X	X													
12	Field Blank																						
13	EB02		WT	G	8/28/23	1625	15	X	X	X													
14																							
15																							
16																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>[Signature]</i>	08/28/23	1701	<i>[Signature]</i>	8/29/23	700	2.9	Y	N	Y

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Jason Stuckey</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY): 08/28/23			







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

October 11, 2023

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](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in black ink that reads "Diane Billings". The signature is written in a cursive, flowing style.

Diane Billings  
Project Manager





**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

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Work Order    GH04366

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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
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



---

Work Order GH04572

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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
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



---

Work Order GH04878

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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
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order GH05497

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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
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



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Work Order    GH05671

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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
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:** GH04366-01  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04366-02  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 16:01  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04366-03  
**Name:** XPW01A  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 15:15  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04366-04  
**Name:** AW 16 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis



**ANALYTICAL RESULTS**

**Sample:** GH04366-05  
**Name:** XPW01A DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/21/23 15:15  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04572-01  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04572-02  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 11:11  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04572-03  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 12:57  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis



**ANALYTICAL RESULTS**

**Sample:** GH04572-04  
**Name:** AW-20  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 14:34  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04572-05  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 16:04  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04572-06  
**Name:** XPW02  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 15:57  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04572-07  
**Name:** FIELD BLANK  
**Matrix:** DI Water - Field Blank

**Sampled:** 08/22/23 11:11  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis





**ANALYTICAL RESULTS**

**Sample:** GH04572-08  
**Name:** AW-01 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04878-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 13:04  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04878-02  
**Name:** APW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 14:42  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04878-03  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 15:53  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis



**ANALYTICAL RESULTS**

**Sample:** GH04878-04  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 12:55  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04878-05  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 14:25  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04878-06  
**Name:** AW-23  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 10:44  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04878-07  
**Name:** EB 01  
**Matrix:** DI Water - Equipment Blank

**Sampled:** 08/23/23 16:00  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis



**ANALYTICAL RESULTS**

**Sample:** GH05497-01  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 10:47  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05497-02  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:49  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05497-03  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 16:10  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05497-04  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:40  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis



**ANALYTICAL RESULTS**

**Sample:** GH05497-05  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 13:04  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05497-06  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 11:10  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05497-07  
**Name:** EMW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 13:20  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05497-08  
**Name:** XPW03  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 16:16  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis



Data not pertinent to the compliance monitoring was removed.

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

**ANALYTICAL RESULTS**

**Sample:** GH05497-09  
**Name:** EB 02  
**Matrix:** DI Water - Equipment Blank

**Sampled:** 08/28/23 16:25  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05671-01  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 08/29/23 11:50  
**Received:** 08/29/23 14:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**ANALYTICAL RESULTS**

**Sample:** GH04366-01  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

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	3.95	pCi/L			1	0.616	09/18/23 21:28	PACE	904.0 903.0
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**Sample:** GH04366-02  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 16:01  
**Received:** 08/22/23 07:00

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	2.64	pCi/L			1	0.748	09/18/23 21:28	PACE	904.0 903.0
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**ANALYTICAL RESULTS**

**Sample:** GH04366-03  
**Name:** XPW01A  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 15:15  
**Received:** 08/22/23 07:00

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	1.01	pCi/L			1	0.57	09/18/23 21:28	PACE	904.0 903.0
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**Sample:** GH04366-04  
**Name:** AW 16 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

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	5.15	pCi/L			1	0.749	09/18/23 21:28	PACE	904.0 903.0
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**Sample:** GH04366-05  
**Name:** XPW01A DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/21/23 15:15  
**Received:** 08/22/23 07:00

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	0.731	pCi/L			1	0.657	09/18/23 21:28	PACE	904.0 903.0
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**Sample:** GH04572-01  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

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	1.13	pCi/L			1	0.545	09/08/23 18:01	PACE	904.0 903.0
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**ANALYTICAL RESULTS**

**Sample:** GH04572-02  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 11:11  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	6.06	pCi/L			1	0.545	09/08/23 18:01	PACE	904.0 903.0

**Sample:** GH04572-03  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 12:57  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.75	pCi/L			1	0.553	09/08/23 18:01	PACE	904.0 903.0

**Sample:** GH04572-04  
**Name:** AW-20  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 14:34  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.04	pCi/L			1	0.486	09/08/23 18:01	PACE	904.0 903.0

**Sample:** GH04572-05  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 16:04  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.936	pCi/L			1	0.438	09/09/23 00:14	PACE	904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GH04572-06  
**Name:** XPW02  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 15:57  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.12	pCi/L			1	0.416	09/09/23 00:14	PACE	904.0 903.0

**Sample:** GH04572-07  
**Name:** FIELD BLANK  
**Matrix:** DI Water - Field Blank

**Sampled:** 08/22/23 11:11  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.48	pCi/L			1	0.642	09/08/23 23:19	PACE	904.0 903.0

**Sample:** GH04572-08  
**Name:** AW-01 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.558	pCi/L			1	0.543	09/08/23 23:19	PACE	904.0 903.0

**Sample:** GH04878-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 13:04  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.4	pCi/L			1	0.661	09/08/23 23:19	PACE	904.0 903.0





**ANALYTICAL RESULTS**

**Sample:** GH04878-02  
**Name:** APW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 14:42  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.737	pCi/L			1	0.657	09/08/23 23:19	PACE	904.0 903.0

**Sample:** GH04878-03  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 15:53  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	3.53	pCi/L			1	0.791	09/08/23 23:19	PACE	904.0 903.0

**Sample:** GH04878-04  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 12:55  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	6.12	pCi/L			1	0.62	09/08/23 23:19	PACE	904.0 903.0

**Sample:** GH04878-05  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 14:25  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.02	pCi/L			1	0.589	09/08/23 23:19	PACE	904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GH04878-06  
**Name:** AW-23  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 10:44  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.803	pCi/L			1	0.736	09/08/23 23:19	PACE	904.0 903.0

**Sample:** GH04878-07  
**Name:** EB 01  
**Matrix:** DI Water - Equipment Blank

**Sampled:** 08/23/23 16:00  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.103 U	pCi/L			1	0.781	09/08/23 23:19	PACE	904.0 903.0

**Sample:** GH05497-01  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 10:47  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.26	pCi/L			1	0.483	09/22/23 14:40	PACE	904.0 903.0

**Sample:** GH05497-02  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:49  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.0965 U	pCi/L			1	0.919	09/22/23 14:40	PACE	904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GH05497-03  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 16:10  
**Received:** 08/29/23 07:00

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	0.107 U	pCi/L			1	0.484	09/22/23 14:40	PACE	904.0 903.0
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**Sample:** GH05497-04  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:40  
**Received:** 08/29/23 07:00

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	0.434 J	pCi/L			1	0.591	09/22/23 14:40	PACE	904.0 903.0
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**Sample:** GH05497-05  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 13:04  
**Received:** 08/29/23 07:00

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	4.03	pCi/L			1	0.736	09/22/23 14:40	PACE	904.0 903.0
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**Sample:** GH05497-06  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 11:10  
**Received:** 08/29/23 07:00

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	2.45	pCi/L			1	0.534	09/22/23 14:40	PACE	904.0 903.0
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**ANALYTICAL RESULTS**

**Sample:** GH05497-07  
**Name:** EMW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 13:20  
**Received:** 08/29/23 07:00

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	0.499 J	pCi/L			1	0.617	09/22/23 14:40	PACE	904.0 903.0
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**Sample:** GH05497-08  
**Name:** XPW03  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 16:16  
**Received:** 08/29/23 07:00

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	0.261 J	pCi/L			1	0.607	09/22/23 14:40	PACE	904.0 903.0
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**Sample:** GH05497-09  
**Name:** EB 02  
**Matrix:** DI Water - Equipment Blank

**Sampled:** 08/28/23 16:25  
**Received:** 08/29/23 07:00

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	0.263 J	pCi/L			1	0.621	09/22/23 14:40	PACE	904.0 903.0
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**Sample:** GH05671-01  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 08/29/23 11:50  
**Received:** 08/29/23 14:09

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	1.52	pCi/L			1	0.551	09/18/23 21:28	PACE	904.0 903.0
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**QC SAMPLE RESULTS**

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Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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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



August 31, 2023

Gail Shindler  
Pace Peoria  
2231 W Altorfer Dr  
Peoria, IL 61615

RE: Project: GH04366/Vistra Edwards  
Pace Project No.: 50352721

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Patterson  
heather.patterson@pacelabs.com  
(317)228-3146  
Project Manager

Enclosures

cc: Diane Billings, Pace IL/MO  
Janet Clutters, Pace Analytical Peoria  
Taylor Cordle, Pace Analytical Peoria  
Jon Robert Handshy, Pace Hazelwood  
Amy Holmes, Pace Hazelwood  
Chenise Lambert-Sykes, Pace Analytical Peoria  
Erin Lane, Pace Peoria  
Jennifer Solomon, Pace Analytical Peoria



**REPORT OF LABORATORY ANALYSIS**

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### CERTIFICATIONS

Project: GH04366/Vistra Edwards  
Pace Project No.: 50352721

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**Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
Wisconsin Laboratory #: 999788130  
USDA Foreign Soil Permit #: 525-23-13-23119  
USDA Compliance Agreement #: IN-SL-22-001

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### SAMPLE SUMMARY

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50352721001	AW-16	Water	08/21/23 14:28	08/29/23 09:30
50352721002	AW-17	Water	08/21/23 16:01	08/29/23 09:30
50352721003	XPW01A	Water	08/21/23 15:15	08/29/23 09:30
50352721004	AW-16 DUP	Water	08/21/23 14:28	08/29/23 09:30
50352721005	XPW01A DUP	Water	08/21/23 15:15	08/29/23 09:30

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**SAMPLE ANALYTE COUNT**

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50352721001	AW-16	RSK 175 Modified	JRW	3	PASI-I
50352721002	AW-17	RSK 175 Modified	JRW	3	PASI-I
50352721003	XPW01A	RSK 175 Modified	JRW	3	PASI-I
50352721004	AW-16 DUP	RSK 175 Modified	JRW	3	PASI-I
50352721005	XPW01A DUP	RSK 175 Modified	JRW	3	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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**SUMMARY OF DETECTION**

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50352721001	AW-16					
50352721002	AW-17					
50352721003	XPW01A					
50352721004	AW-16 DUP					
50352721005	XPW01A DUP					

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### ANALYTICAL RESULTS

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

<b>Sample: AW-16</b>	<b>Lab ID: 50352721001</b>	Collected: 08/21/23 14:28	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

<b>Sample: AW-17</b>	<b>Lab ID: 50352721002</b>	Collected: 08/21/23 16:01	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

<b>Sample: XPW01A</b>	<b>Lab ID: 50352721003</b>	Collected: 08/21/23 15:15	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

<b>Sample: AW-16 DUP</b>		<b>Lab ID: 50352721004</b>	Collected: 08/21/23 14:28	Received: 08/29/23 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

<b>Sample: XPW01A DUP</b>		<b>Lab ID: 50352721005</b>		Collected: 08/21/23 15:15	Received: 08/29/23 09:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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**QUALITY CONTROL DATA**

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

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QC Batch:	750650	Analysis Method:	RSK 175 Modified
QC Batch Method:	RSK 175 Modified	Analysis Description:	RSK 175 HEADSPACE
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50352721001, 50352721002, 50352721003, 50352721004, 50352721005

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METHOD BLANK: 3440264 Matrix: Water  
 Associated Lab Samples: 50352721001, 50352721002, 50352721003, 50352721004, 50352721005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
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LABORATORY CONTROL SAMPLE: 3440265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
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SAMPLE DUPLICATE: 3440448

Parameter	Units	50352721003 Result	Dup Result	RPD	Max RPD	Qualifiers
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Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
 ND - Not Detected at or above adjusted reporting limit.  
 TNTC - Too Numerous To Count  
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
 MDL - Adjusted Method Detection Limit.  
 PQL - Practical Quantitation Limit.  
 RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
 S - Surrogate  
 1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
 Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
 LCS(D) - Laboratory Control Sample (Duplicate)  
 MS(D) - Matrix Spike (Duplicate)  
 DUP - Sample Duplicate  
 RPD - Relative Percent Difference  
 NC - Not Calculable.  
 SG - Silica Gel - Clean-Up  
 U - Indicates the compound was analyzed for, but not detected.  
 N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
 Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.  
 Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
 TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50352721001	AW-16	RSK 175 Modified	750650		
50352721002	AW-17	RSK 175 Modified	750650		
50352721003	XPW01A	RSK 175 Modified	750650		
50352721004	AW-16 DUP	RSK 175 Modified	750650		
50352721005	XPW01A DUP	RSK 175 Modified	750650		

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WO#: 50352721



50352721

State of Origin: IL  
 Cert. Needed:  YES  NO



Owner Received Date: 8/22/2023  
 Results Required By: 9/6/2023

Workorder Name: VISTRA EDWARDS

Report To:	Subcontract To:	Requested Analysis											
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DIANE BILLINGS  
 Pace Analytical - IL/MO  
 2231 W. Altorfer Drive  
 Peoria, IL 61615  
 800-752-6651

Pace Analytical Services, LLC  
 7726 Moller Road  
 Indianapolis, IN 46268  
 (317)228-3105

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers												LAB USE ONLY							
						RSK 175																			
1	AW-16	GRAB	8/21/2023 14:28	GH04366-01	GW	X																			
2	AW-17	GRAB	8/21/2023 16:01	GH04366-02	GW	X																			
3	XPW01A	GRAB	8/21/2023 15:15	GH04366-03	GW	X																			
4	AW-16 DUP	GRAB	8/21/2023 14:28	GH04366-04	GW	X																			
5	XPW01A DUP	GRAB	8/21/2023 15:15	GH04366-05	GW	X																			
6																									
7																									
8																									
9																									
10																									
11																									
12																									

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>[Signature]</i>	8/24/23 0935	FedEx		
2	FedEx	8-29-23 0930	<i>[Signature]</i> / PACE	8-29-23 0930	
3					Include QC summary and edd

Cooler Temperature on Receipt	1.8 °C	Custody Seal <input checked="" type="checkbox"/> or N	Received on Ice <input checked="" type="checkbox"/> or N	Sample Intact <input checked="" type="checkbox"/> or N
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\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.





**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: NMS 08-29-2023 1124

1. Courier:  FED EX  UPS  CLIENT  PACE  NOW/JETT  OTHER \_\_\_\_\_
2. Custody Seal on Cooler/Box Present:  Yes  No  
(If yes) Seals Intact:  Yes  No (leave blank if no seals were present)
3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**  
1.8 / 1.8
4. Cooler Temperature(s): 1.8 / 1.8     
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material:  Bubble Wrap  Bubble Bags  
 None  Other Styrofoam
6. Ice Type:  Wet  Blue  None
7. If temp. is over 6°C or under 0°C, was the PM notified?:  Yes  No  
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			<input checked="" type="checkbox"/>
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

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# ANALYTICAL REPORT

October 03, 2023

## Pace IR - Peoria, IL

Sample Delivery Group: L1653843  
Samples Received: 08/29/2023  
Project Number: GH04366  
Description: Vistra-Edwards  
Site: 001  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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](http://www.pacenational.com)

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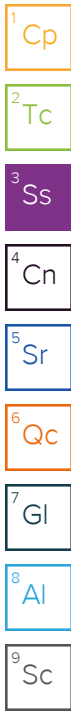


SAMPLE SUMMARY

AW-16 L1653843-01 Non-Potable Water

Collected by  
 Collected date/time 08/21/23 14:28  
 Received date/time 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2132560	1	09/14/23 18:09	09/18/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/18/23 21:28	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN



AW-17 L1653843-02 Non-Potable Water

Collected by  
 Collected date/time 08/21/23 16:01  
 Received date/time 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2132560	1	09/14/23 18:09	09/18/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/18/23 21:28	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 15:33	RGT	Mt. Juliet, TN

XPW01A L1653843-03 Non-Potable Water

Collected by  
 Collected date/time 08/21/23 15:15  
 Received date/time 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2132560	1	09/14/23 18:09	09/18/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/18/23 21:28	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 15:33	RGT	Mt. Juliet, TN

AW 16 DUP L1653843-04 Non-Potable Water

Collected by  
 Collected date/time 08/21/23 14:28  
 Received date/time 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2132560	1	09/14/23 18:09	09/18/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/18/23 21:28	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 15:33	RGT	Mt. Juliet, TN

XPW01A DUP L1653843-05 Non-Potable Water

Collected by  
 Collected date/time 08/21/23 15:15  
 Received date/time 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2132560	1	09/14/23 18:09	09/18/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/18/23 21:28	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 15:33	RGT	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

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

AW-16

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023  
EDWARDS POWER PLANT, ASH POND

# SAMPLE RESULTS - 01

Collected date/time: 09/13/23 14:38

L1653843

EDW-845-301

## Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.18		0.327	0.548	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Barium	107			30.0-143	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Yttrium	104			30.0-136	09/18/2023 21:28	<a href="#">WG2132560</a>

1 Cp

2 Tc

3 Ss

## Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.95		0.602	0.616	09/18/2023 21:28	<a href="#">WG2130036</a>

4 Cn

5 Sr

## Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.77		0.505	0.281	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	91.9			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc

AW-17

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

# SAMPLE RESULTS - 02

Collected date/time: 09/13/23 16:01

EDWARDS POWER PLANT, ASH POND

L1653843

EDW-845-301

## Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.15		0.386	0.667	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Barium	104			30.0-143	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Yttrium	101			30.0-136	09/18/2023 21:28	<a href="#">WG2132560</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

## Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.64		0.500	0.748	09/18/2023 21:28	<a href="#">WG2130036</a>

## Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.494		0.318	0.338	09/15/2023 15:33	<a href="#">WG2130036</a>
(T) Barium-133	92.4			30.0-143	09/15/2023 15:33	<a href="#">WG2130036</a>

XPW01A

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023

SAMPLE RESULTS - 03

Collected date/time: 09/18/2023 15:15

EDWARDS POWER PLANT, ASH POND

L1653843

EDW-845-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.867		0.242	0.432	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Barium	111			30.0-143	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Yttrium	94.6			30.0-136	09/18/2023 21:28	<a href="#">WG2132560</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.01		0.343	0.570	09/18/2023 21:28	<a href="#">WG2130036</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.144	J	0.243	0.372	09/15/2023 15:33	<a href="#">WG2130036</a>
(T) Barium-133	79.6			30.0-143	09/15/2023 15:33	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.75		0.410	0.695	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Barium	115			30.0-143	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Yttrium	91.2			30.0-136	09/18/2023 21:28	<a href="#">WG2132560</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	5.15		0.734	0.749	09/18/2023 21:28	<a href="#">WG2130036</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.41		0.609	0.279	09/15/2023 15:33	<a href="#">WG2130036</a>
(T) Barium-133	86.0			30.0-143	09/15/2023 15:33	<a href="#">WG2130036</a>

XPW01A

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

# SAMPLE RESULTS - 05

Collected date/time: 09/13/23 15:15

EDWARDS POWER PLANT, ASH POND

L1653843

EDW-845-301

## Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.715		0.286	0.519	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Barium	88.9			30.0-143	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Yttrium	103			30.0-136	09/18/2023 21:28	<a href="#">WG2132560</a>

1 Cp

2 Tc

3 Ss

## Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.731		0.361	0.657	09/18/2023 21:28	<a href="#">WG2130036</a>

4 Cn

5 Sr

## Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0164	<u>U</u>	0.221	0.403	09/15/2023 15:33	<a href="#">WG2130036</a>
(T) Barium-133	91.1			30.0-143	09/15/2023 15:33	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3975641-1 09/18/23 21:28

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.779		0.218	0.390
(T) Barium	79.4		79.4	
(T) Yttrium	103		103	

L1650771-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1650771-01 09/18/23 21:28 • (DUP) R3975641-5 09/18/23 21:28

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.80	0.243	0.400	1.93	0.465	0.821	1	6.65	0.236		20	3
(T) Barium	121			84.6	84.6							
(T) Yttrium	92.0			83.2	83.2							

Laboratory Control Sample (LCS)

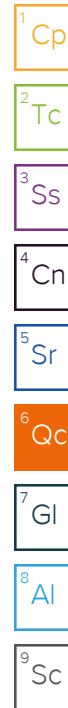
(LCS) R3975641-2 09/18/23 21:28

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.90	97.9	80.0-120	
(T) Barium			96.1		
(T) Yttrium			98.1		

L1650762-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650762-07 09/18/23 21:28 • (MS) R3975641-3 09/18/23 21:28 • (MSD) R3975641-4 09/18/23 21:28

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	10.0	-0.538	8.83	9.60	88.3	96.0	1	70.0-130			8.35		20
(T) Barium		135			126	112							
(T) Yttrium		108			87.6	95.3							





Method Blank (MB)

(MB) R3981103-1 09/15/23 15:33

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.00320	<u>U</u>	0.0756	0.145
(T) Barium-133	52.0		52.0	

L1652263-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1652263-09 09/15/23 19:27 • (DUP) R3981103-5 09/15/23 15:33

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.228	0.212	0.264	-0.0166	0.126	0.300	1	200	0.993	<u>U</u>	20	3
(T) Barium-133	107			86.4	86.4							

Laboratory Control Sample (LCS)

(LCS) R3981103-2 09/15/23 15:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.62	112	80.0-120	
(T) Barium-133			64.5		

L1651386-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1651386-07 09/15/23 19:27 • (MS) R3981103-3 09/15/23 15:33 • (MSD) R3981103-4 09/15/23 15:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.799	21.5	17.9	104	85.4	1	75.0-125			18.4		20
(T) Barium-133		92.7			82.5	84.5							



# GLOSSARY OF TERMS

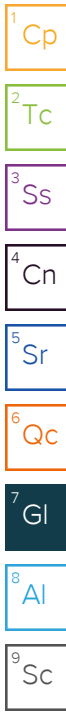
## Guide to Reading and Understanding Your Laboratory Report

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.



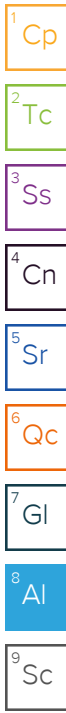
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.







Internal Transfer Chain of Custody

State of Origin: IL  
 Cert. Needed:  YES  NO



Workorder: GH04366      Workorder Name: Vistra - Edwards      Owner Received Date: 8/22/2023      Results Required By: 9/15/2023

Report To:	Subcontract To:	Requested Analysis
Diane Billings Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122	

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers										LAB USE ONLY			
						1	2	3	4	5	6	7	8	9	10				
1	AW-16	GRAB	8/21/2023 14:28	GH04366-01	GW	X													
2	AW-17	GRAB	8/21/2023 16:01	GH04366-02	GW	X													
3	XPW01A	GRAB	8/21/2023 15:15	GH04366-03	GW	X													
4	AW 16 DUP	GRAB	8/21/2023 14:28	GH04366-04	GW	X													
5	XPW01A DUP	GRAB	8/21/2023 15:15	GH04366-05	GW	X													
6																			
7																			
8																			
9																			
10																			

L1653843  
LAB USE ONLY

Transfers Released	Date/Time	Received By	Date/Time	Comments
<i>[Signature]</i>	8/26/23	Haley Robinson	8/29/23 0900	Needs reported as 226, 228 and also combined 226/228
<i>[Signature]</i>	8/26/23 0900			Include QC summary

Cooler Temperature on Receipt: \_\_\_\_\_ °C      Custody Seal:  Y or  N      Received on Ice:  Y or  N      Sample Intact:  Y or  N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist

COC Seal Present/Intact:  Y  N      If Applicable VOA Zero Headspace:  Y  N  
 COC Signed/Accurate:  Y  N      Pres. Correct/Check:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 PA Screen <0.5 nR/hr:  Y  N

*Amb*

63190053786



L1653843



Ship to :  
 Pace Analytical - Mt Juliet  
 12055 Lebanon Rd  
 Mt Juliet TN 37122

INTER\_LABORATORY WORK ORDER # GH04366

(To be complete by sending lab)

Sending Project No:	GH04366
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	8/31/2023
REQUESTED COMPLETION DATE:	9/15/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Diane Billings
Receiving Region	MT Juliet	External Client	Vistra-Edwards
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units \_\_\_\_\_ Report Wet or Dry Weight? \_\_\_\_\_ Cert Needed: IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		5		5	\$242.10	\$1,210.50
					\$0.00	\$0.00
					\$0.00	\$0.00
<b>TOTAL</b>						\$1,210.50

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$1,210.50	\$968.40	\$242.10
		<b>TOTAL</b>	\$968.40	\$242.10

\* Custom Revenue Allocation

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:  Yes  No

CONFIRMATION OF WORK COMPLETED

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.



Ship to :  
 Pace Analytical - Mt Juliet  
 12065 Lebanon Rd  
 Mt Juliet TN 37122

11053843

INTER LABORATORY WORK ORDER # GH04366

(To be complete by sending lab)

Sending Project No:	GH04366
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	8/31/2023
REQUESTED COMPLETION DATE:	9/15/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Diane Billings
Receiving Region	MT Juliet	External Client	Vistra-Edwards
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units \_\_\_\_\_ Report Wet or Dry Weight? \_\_\_\_\_ Cert Needed: \_\_\_\_\_ IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		5		5	\$242.10	\$1,210.50
					\$0.00	\$0.00
					\$0.00	\$0.00
<b>TOTAL</b>						<b>\$1,210.50</b>

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$1,210.50	\$968.40	\$242.10
* Custom Revenue Allocation		TOTAL	\$968.40	\$242.10

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:  Yes  No

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

Original sent to the receiving lab - Copy kept at the sending lab.  
 When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Data not pertinent to the compliance monitoring was removed.



September 11, 2023

Gail Shindler  
Pace Peoria  
2231 W Altorfer Dr  
Peoria, IL 61615

RE: Project: GH04572/VISTRA EDWARDS  
Pace Project No.: 50352712

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:  
• Pace Analytical Services - Indianapolis

Revised report replaces report dated 08/31/23. Revised to change client sample ID for sample -008 per client request.  
091123hmp

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Patterson  
heather.patterson@pacelabs.com  
(317)228-3146  
Project Manager

Enclosures

cc: Diane Billings, Pace IL/MO  
Janet Clutters, Pace Analytical Peoria  
Taylor Cordle, Pace Analytical Peoria  
Jon Robert Handshy, Pace Hazelwood  
Amy Holmes, Pace Hazelwood  
Chenise Lambert-Sykes, Pace Analytical Peoria  
Erin Lane, Pace Peoria  
Jennifer Solomon, Pace Analytical Peoria



**REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: GH04572/MISTRA EDWARDS  
Pace Project No.: 50352712

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### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
Wisconsin Laboratory #: 999788130  
USDA Foreign Soil Permit #: 525-23-13-23119  
USDA Compliance Agreement #: IN-SL-22-001

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## REPORT OF LABORATORY ANALYSIS

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**SAMPLE SUMMARY**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50352712001	AW-01	Water	08/22/23 14:28	08/29/23 09:30
50352712002	AW-18	Water	08/22/23 11:11	08/29/23 09:30
50352712003	AW-19	Water	08/22/23 12:57	08/29/23 09:30
50352712004	AW-20	Water	08/22/23 14:34	08/29/23 09:30
50352712005	AW-21	Water	08/22/23 16:04	08/29/23 09:30
50352712006	XPW02	Water	08/22/23 15:57	08/29/23 09:30
50352712007	FIELD BLANK	Water	08/22/23 11:11	08/29/23 09:30
50352712008	AW-01 DUP	Water	08/22/23 14:28	08/29/23 09:30

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50352712001	AW-01	RSK 175 Modified	JRW	3	PASI-I
50352712002	AW-18	RSK 175 Modified	JRW	3	PASI-I
50352712003	AW-19	RSK 175 Modified	JRW	3	PASI-I
50352712004	AW-20	RSK 175 Modified	JRW	3	PASI-I
50352712005	AW-21	RSK 175 Modified	JRW	3	PASI-I
50352712006	XPW02	RSK 175 Modified	JRW	3	PASI-I
50352712007	FIELD BLANK	RSK 175 Modified	JRW	3	PASI-I
50352712008	AW-01 DUP	RSK 175 Modified	JRW	3	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50352712001	AW-01					
50352712002	AW-18					
50352712003	AW-19					
50352712004	AW-20					
50352712006	XPW02					
50352712008	AW-01 DUP					

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample:</b> AW-01	<b>Lab ID:</b> 50352712001	Collected: 08/22/23 14:28	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample: AW-18</b>	<b>Lab ID: 50352712002</b>	Collected: 08/22/23 11:11	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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**ANALYTICAL RESULTS**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample: AW-19</b>	<b>Lab ID: 50352712003</b>	Collected: 08/22/23 12:57	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample:</b> AW-20	<b>Lab ID:</b> 50352712004	Collected: 08/22/23 14:34	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample:</b> AW-21	<b>Lab ID:</b> 50352712005	Collected: 08/22/23 16:04	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample:</b> XPW02	<b>Lab ID:</b> 50352712006	Collected: 08/22/23 15:57	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample: FIELD BLANK</b>		<b>Lab ID: 50352712007</b>	Collected: 08/22/23 11:11	Received: 08/29/23 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample:</b> AW-01 DUP	<b>Lab ID:</b> 50352712008	Collected: 08/22/23 14:28	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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**QUALITY CONTROL DATA**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

---

QC Batch:	750650	Analysis Method:	RSK 175 Modified
QC Batch Method:	RSK 175 Modified	Analysis Description:	RSK 175 HEADSPACE
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50352712001, 50352712002, 50352712003, 50352712004, 50352712005, 50352712006, 50352712007, 50352712008

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METHOD BLANK: 3440264 Matrix: Water  
 Associated Lab Samples: 50352712001, 50352712002, 50352712003, 50352712004, 50352712005, 50352712006, 50352712007, 50352712008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
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LABORATORY CONTROL SAMPLE: 3440265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
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SAMPLE DUPLICATE: 3440448

Parameter	Units	50352721003 Result	Dup Result	RPD	Max RPD	Qualifiers
-----------	-------	--------------------	------------	-----	---------	------------

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: GH04572/MISTRA EDWARDS  
Pace Project No.: 50352712

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50352712001	AW-01	RSK 175 Modified	750650		
50352712002	AW-18	RSK 175 Modified	750650		
50352712003	AW-19	RSK 175 Modified	750650		
50352712004	AW-20	RSK 175 Modified	750650		
50352712005	AW-21	RSK 175 Modified	750650		
50352712006	XPW02	RSK 175 Modified	750650		
50352712007	FIELD BLANK	RSK 175 Modified	750650		
50352712008	AW-01 DUP	RSK 175 Modified	750650		

**REPORT OF LABORATORY ANALYSIS**

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W0#: 50352712



50352712



State of Origin: IL  YES  NO  
Cert. Needed:  YES  NO

Owner Received Date: 8/23/2023 By: 9/7/2023  
Requested Analysis

Workorder: GH04572 Workorder Name: VISTRA EDWARDS

Subcontract To:

DIANE BILLINGS  
Pace Analytical - IL/MO  
2231 W. Altorfer Drive  
Peoria, IL 61615  
800-752-6651

Pace Analytical Services, LLC  
7726 Moiler Road  
Indianapolis, IN 46268  
(317)228-3105

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Date/Time	Received By	Date/Time	Comments
1	AW-01	GRAB	8/22/2023 14:28	GH04572-01	GW					
2	AW-18	GRAB	8/22/2023 11:11	GH04572-02	GW					
3	AW-19	GRAB	8/22/2023 12:57	GH04572-03	GW					
4	AW-20	GRAB	8/22/2023 14:34	GH04572-04	GW					
5	AW-21	GRAB	8/22/2023 16:04	GH04572-05	GW					
6	XPW02	GRAB	8/22/2023 15:57	GH04572-06	GW					
7	FIELD BLANK	GRAB	8/22/2023 11:11	GH04572-07	GW					
8	AP-01-DUP AW-01 Dup	GRAB	8/22/2023 14:28	GH04572-08	GW					
9										
10										
11										
12										
Transfers Released By										
1			8/26/23 09:35					FedEx		
2			8-24-23 09:50					Michael Shields / PACE	8-29-23 09:50	
3										Include QC summary and add

Cooler Temperature on Receipt 1.8 °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N  
\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
This chain of custody is considered complete as is since this information is available in the owner laboratory.

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1





**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: NMS 08-29-2023 1124

1. Courier:  FED EX  UPS  CLIENT  PACE  NOW/JETT  OTHER \_\_\_\_\_
2. Custody Seal on Cooler/Box Present:  Yes  No  
(If yes) Seals Intact:  Yes  No (leave blank if no seals were present)
3. Thermometer: **1 2 3 4 5 6 7 8** **A B C D E F G H**
4. Cooler Temperature(s): 1.8 / 1.8     
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material:  Bubble Wrap  Bubble Bags  
 None  Other Styrofoam
6. Ice Type:  Wet  Blue  None
7. If temp. is over 6°C or under 0°C, was the PM notified?:  Yes  No  
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			<input checked="" type="checkbox"/>
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present <input checked="" type="checkbox"/>	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

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# ANALYTICAL REPORT

September 13, 2023

## Pace IR - Peoria, IL

Sample Delivery Group: L1650654  
Samples Received: 08/29/2023  
Project Number: GH04572  
Description: VISTRA EDWARDS

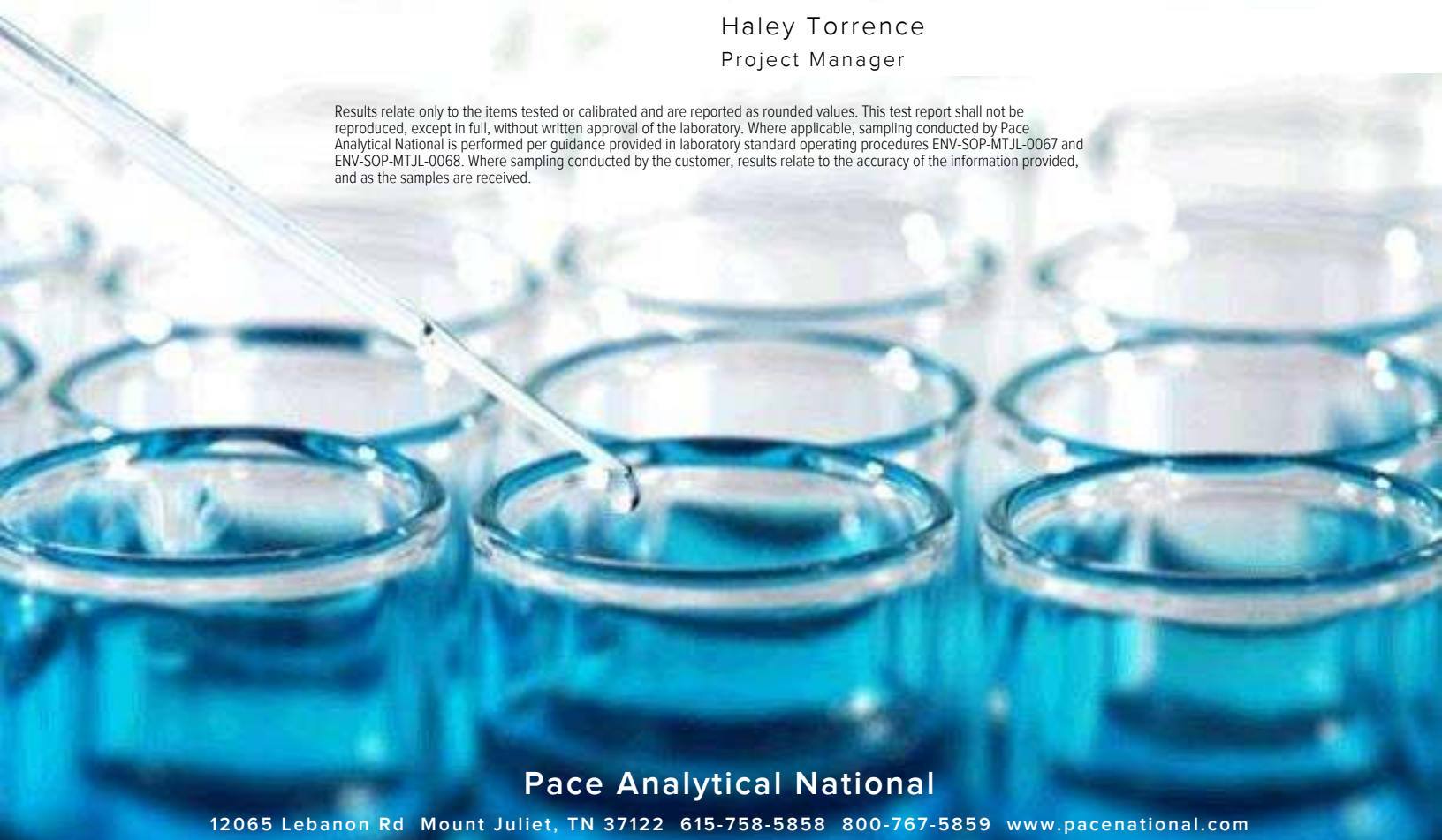
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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.

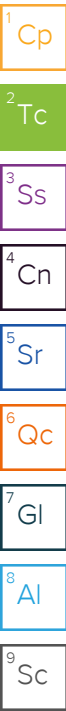


**Pace Analytical National**

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

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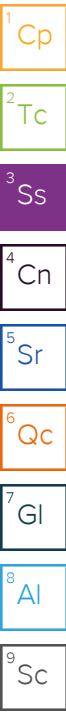


SAMPLE SUMMARY

AW-01 L1650654-01 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/22/23 14:28 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 18:01	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 18:01	RGT	Mt. Juliet, TN



AW-18 L1650654-02 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/22/23 11:11 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 18:01	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 18:01	RGT	Mt. Juliet, TN

AW-19 L1650654-03 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/22/23 12:57 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 18:01	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 18:01	RGT	Mt. Juliet, TN

AW-20 L1650654-04 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/22/23 14:34 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 18:01	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 18:01	RGT	Mt. Juliet, TN

AW-21 L1650654-05 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/22/23 16:04 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/09/23 00:14	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/09/23 00:14	RGT	Mt. Juliet, TN

XPW02 L1650654-06 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/22/23 15:57 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/09/23 00:14	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/09/23 00:14	RGT	Mt. Juliet, TN

# SAMPLE SUMMARY

## FIELD BLANK L1650654-07 Non-Potable Water

Collected by  
 Collected date/time 08/22/23 11:11  
 Received date/time 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

## AW-01 DUP L1650654-08 Non-Potable Water

Collected by  
 Collected date/time 08/22/23 14:28  
 Received date/time 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn  
 5 Sr  
 6 Qc  
 7 Gl  
 8 Al  
 9 Sc

# 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

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

AW-01

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

SAMPLE RESULTS - 01

Collected date/time: 09/13/23 14:23

EDWARDS POWER PLANT, ASH POND

L1650654

EDW-845-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.980		0.284	0.474	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	108			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	108			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.13		0.341	0.545	09/08/2023 18:01	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.147	J	0.189	0.269	09/08/2023 18:01	<a href="#">WG2123822</a>
(T) Barium-133	101			30.0-143	09/08/2023 18:01	<a href="#">WG2123822</a>



AW-18

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

# SAMPLE RESULTS - 02

Collected date: 09/13/23 11:11

EDWARDS POWER PLANT, ASH POND

L1650654

EDW-845-301

## Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	3.12		0.332	0.482	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	111			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	100			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

1 Cp

2 Tc

3 Ss

## Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	6.06		0.747	0.545	09/08/2023 18:01	<a href="#">WG2123822</a>

4 Cn

5 Sr

## Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.94		0.669	0.255	09/08/2023 18:01	<a href="#">WG2123822</a>
(T) Barium-133	115			30.0-143	09/08/2023 18:01	<a href="#">WG2123822</a>

6 Qc

7 Gl

8 Al

9 Sc

AW-19

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

SAMPLE RESULTS - 03

Collected date/time: 09/06/2023 12:57

EDWARDS POWER PLANT, ASH POND

L1650654

EDW-845-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.801		0.247	0.412	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	103			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	102			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.75		0.486	0.553	09/08/2023 18:01	<a href="#">WG2123822</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.952		0.419	0.369	09/08/2023 18:01	<a href="#">WG2123822</a>
(T) Barium-133	103			30.0-143	09/08/2023 18:01	<a href="#">WG2123822</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.501		0.242	0.413	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	118			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	102			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.04		0.559	0.486	09/08/2023 18:01	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.54		0.504	0.257	09/08/2023 18:01	<a href="#">WG2123822</a>
(T) Barium-133	93.6			30.0-143	09/08/2023 18:01	<a href="#">WG2123822</a>

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.796		0.234	0.388	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	92.3			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	105			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.936		0.280	0.438	09/09/2023 00:14	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.140	J	0.154	0.203	09/09/2023 00:14	<a href="#">WG2123822</a>
(T) Barium-133	98.5			30.0-143	09/09/2023 00:14	<a href="#">WG2123822</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

XPW02

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023

SAMPLE RESULTS - 06

Collected date/time: 09/13/23 15:57

EDWARDS POWER PLANT, ASH POND

L1650654

EDW-845-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.12		0.207	0.326	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	110			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	107			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.12		0.242	0.416	09/09/2023 00:14	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.000	<u>U</u>	0.125	0.259	09/09/2023 00:14	<a href="#">WG2123822</a>
(T) Barium-133	103			30.0-143	09/09/2023 00:14	<a href="#">WG2123822</a>

FIELD BLANK

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

SAMPLE RESULTS - 07

Collected date/time: 09/13/23 11:11

EDWARDS POWER PLANT, ASH POND

L1650654

EDW-845-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.746		0.308	0.522	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	115			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	98.3			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.48		0.509	0.642	09/08/2023 23:19	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.739		0.405	0.374	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	83.1			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.221	J	0.251	0.439	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	102			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	94.0			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.558		0.371	0.543	09/08/2023 23:19	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.338		0.273	0.320	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	99.4			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3972128-1 09/06/23 20:57

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.235	↓	0.179	0.311
(T) Barium	116		116	
(T) Yttrium	103		103	

L1650713-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1650713-07 09/06/23 20:57 • (DUP) R3972128-5 09/06/23 20:57

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.103	0.419	0.735	1.28	0.335	0.735	1	170	2.19		20	3
(T) Barium	110			109	109							
(T) Yttrium	89.6			109	109							

Laboratory Control Sample (LCS)

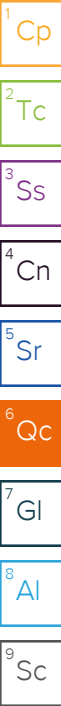
(LCS) R3972128-2 09/06/23 20:57

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.94	98.8	80.0-120	
(T) Barium			121		
(T) Yttrium			102		

L1650654-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650654-07 09/06/23 20:57 • (MS) R3972128-3 09/06/23 20:57 • (MSD) R3972128-4 09/06/23 20:57

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	0.746	17.3	16.1	99.4	91.7	1	70.0-130			7.66		20
(T) Barium		115			115	111							
(T) Yttrium		98.3			107	99.9							





WG2123820

ATTACHMENT B.  
845 QUARTERLY REPORT - QUARTER 3, 2023  
Radiochemist: EDWARD S. SMITH  
EDWARDS POWER PLANT, ASH POND  
EDW-845-301

Data not pertinent to the compliance monitoring was removed.

# QUALITY CONTROL SUMMARY

[L1650654-01.02.03.04.05.06.07.08](#)

## Method Blank (MB)

(MB) R3971134-4 09/09/23 00:14

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0117	<u>U</u>	0.0229	0.0411
(T) Barium-133	60.1		60.1	

## L1650654-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1650654-01 09/08/23 18:01 • (DUP) R3971134-3 09/08/23 18:01

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER %	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.147	0.189	0.269	-0.0296	0.156	0.269	1	200	0.722	<u>U</u>	20	3
(T) Barium-133	101			77.2	77.2							

## Laboratory Control Sample (LCS)

(LCS) R3971134-5 09/09/23 14:33

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.02	80.2	80.0-120	
(T) Barium-133			76.9		

## L1650713-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650713-05 09/08/23 23:19 • (MS) R3971134-1 09/08/23 18:01 • (MSD) R3971134-2 09/08/23 18:01

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	0.280	18.0	19.4	88.8	95.7	1	75.0-125			7.42		20
(T) Barium-133		73.3			79.8	77.1							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 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.

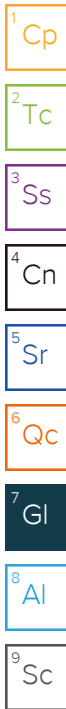
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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



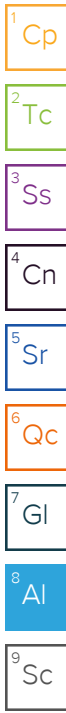
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.







August 31, 2023

Gail Shindler  
Pace Peoria  
2231 W Altorfer Dr  
Peoria, IL 61615

RE: Project: GH04878/VISTRA EDWARDS  
Pace Project No.: 50352715

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Patterson  
heather.patterson@pacelabs.com  
(317)228-3146  
Project Manager

Enclosures

cc: Diane Billings, Pace IL/MO  
Janet Clutters, Pace Analytical Peoria  
Taylor Cordle, Pace Analytical Peoria  
Jon Robert Handshy, Pace Hazelwood  
Amy Holmes, Pace Hazelwood  
Chenise Lambert-Sykes, Pace Analytical Peoria  
Erin Lane, Pace Peoria  
Jennifer Solomon, Pace Analytical Peoria



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## CERTIFICATIONS

Project: GH04878/MISTRA EDWARDS  
Pace Project No.: 50352715

---

### **Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
Wisconsin Laboratory #: 999788130  
USDA Foreign Soil Permit #: 525-23-13-23119  
USDA Compliance Agreement #: IN-SL-22-001

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**SAMPLE SUMMARY**

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50352715001	AP05S	Water	08/23/23 13:04	08/29/23 09:30
50352715002	APW-01	Water	08/23/23 14:42	08/29/23 09:30
50352715003	AW-14	Water	08/23/23 15:53	08/29/23 09:30
50352715004	AW-15	Water	08/23/23 12:55	08/29/23 09:30
50352715005	AW-15S	Water	08/23/23 14:25	08/29/23 09:30
50352715006	AW-23	Water	08/23/23 10:44	08/29/23 09:30
50352715007	EB 01	Water	08/23/23 16:00	08/29/23 09:30

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**SAMPLE ANALYTE COUNT**

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50352715001	AP05S	RSK 175 Modified	JRW	3	PASI-I
50352715002	APW-01	RSK 175 Modified	JRW	3	PASI-I
50352715003	AW-14	RSK 175 Modified	JRW	3	PASI-I
50352715004	AW-15	RSK 175 Modified	JRW	3	PASI-I
50352715005	AW-15S	RSK 175 Modified	JRW	3	PASI-I
50352715006	AW-23	RSK 175 Modified	JRW	3	PASI-I
50352715007	EB 01	RSK 175 Modified	JRW	3	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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**SUMMARY OF DETECTION**

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50352715001	AP05S					
50352715002	APW-01					
50352715003	AW-14					
50352715004	AW-15					
50352715005	AW-15S					
50352715007	EB 01					

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### ANALYTICAL RESULTS

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

<b>Sample: AP05S</b>	<b>Lab ID: 50352715001</b>	Collected: 08/23/23 13:04	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

<b>Sample: APW-01</b>	<b>Lab ID: 50352715002</b>	Collected: 08/23/23 14:42	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

<b>Sample:</b> AW-14	<b>Lab ID:</b> 50352715003	Collected: 08/23/23 15:53	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

<b>Sample: AW-15</b>	<b>Lab ID: 50352715004</b>	Collected: 08/23/23 12:55	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

<b>Sample: AW-15S</b>	<b>Lab ID: 50352715005</b>	Collected: 08/23/23 14:25	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

<b>Sample:</b> AW-23	<b>Lab ID:</b> 50352715006	Collected: 08/23/23 10:44	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

<b>Sample: EB 01</b>	<b>Lab ID: 50352715007</b>	Collected: 08/23/23 16:00	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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**QUALITY CONTROL DATA**

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

---

QC Batch:	750650	Analysis Method:	RSK 175 Modified
QC Batch Method:	RSK 175 Modified	Analysis Description:	RSK 175 HEADSPACE
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50352715001, 50352715002, 50352715003, 50352715004, 50352715005, 50352715006, 50352715007

---

METHOD BLANK: 3440264 Matrix: Water  
 Associated Lab Samples: 50352715001, 50352715002, 50352715003, 50352715004, 50352715005, 50352715006, 50352715007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
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LABORATORY CONTROL SAMPLE: 3440265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
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SAMPLE DUPLICATE: 3440448

Parameter	Units	50352721003 Result	Dup Result	RPD	Max RPD	Qualifiers
-----------	-------	--------------------	------------	-----	---------	------------

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: GH04878/MISTRA EDWARDS

Pace Project No.: 50352715

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50352715001	AP05S	RSK 175 Modified	750650		
50352715002	APW-01	RSK 175 Modified	750650		
50352715003	AW-14	RSK 175 Modified	750650		
50352715004	AW-15	RSK 175 Modified	750650		
50352715005	AW-15S	RSK 175 Modified	750650		
50352715006	AW-23	RSK 175 Modified	750650		
50352715007	EB 01	RSK 175 Modified	750650		

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Inter **WO#: 50352715**  
  
 50352715

State of Origin: IL  
 Cert. Needed:  YES  NO



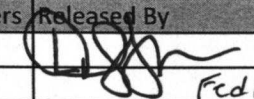
Owner Received Date: 8/24/2023 By: 9/8/2023 Results Required

Workorder: GH04878

Workorder Name: VISTRA EDWARDS

Report To:	Subcontract To:	Requested Analysis
DIANE BILLINGS Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical Services, LLC 7726 Moller Road Indianapolis, IN 46268 (317)228-3105	

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers										LAB USE ONLY	
						RSK 175											
1	AP05S	GRAB	8/23/2023 13:04	GH04878-01	GW	X											
2	APW-01	GRAB	8/23/2023 14:42	GH04878-02	GW	X											001
3	AW-14	GRAB	8/23/2023 15:53	GH04878-03	GW	X											002
4	AW-15	GRAB	8/23/2023 12:55	GH04878-04	GW	X											003
5	AW-15S	GRAB	8/23/2023 14:25	GH04878-05	GW	X											004
6	AW-23	GRAB	8/23/2023 10:44	GH04878-06	GW	X											005
7	EB 01	GRAB	8/23/2023 16:00	GH04878-07	GW	X											006
8																	007
9																	
10																	
11																	
12																	

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1		8/24/23 0935	FedEx		
2	FedEx	8-29-23 0930	Michael Slade / PACE	8-29-23 0930	
3					Include QC summary and edd

Cooler Temperature on Receipt 1.8 °C Custody Seal  or N Received on Ice  or N Sample Intact  or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.





**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: NMS 08-29-2023 1124

- 1. Courier:  FED EX  UPS  CLIENT  PACE  NOW/JETT  OTHER \_\_\_\_\_
- 2. Custody Seal on Cooler/Box Present:  Yes  No  
(If yes) Seals Intact:  Yes  No (leave blank if no seals were present)
- 3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**  
1.8 / 1.8 [ ] [ ] [ ]
- 4. Cooler Temperature(s): 1.8 / 1.8 [ ] [ ] [ ]  
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

- 5. Packing Material:  Bubble Wrap  Bubble Bags  
 None  Other Styrofoam
- 6. Ice Type:  Wet  Blue  None
- 7. If temp. is over 6°C or under 0°C, was the PM notified?:  Yes  No  
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			<input checked="" type="checkbox"/>
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	<input checked="" type="checkbox"/>	<u>Absent</u>	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





# ANALYTICAL REPORT

September 13, 2023

## Pace IR - Peoria, IL

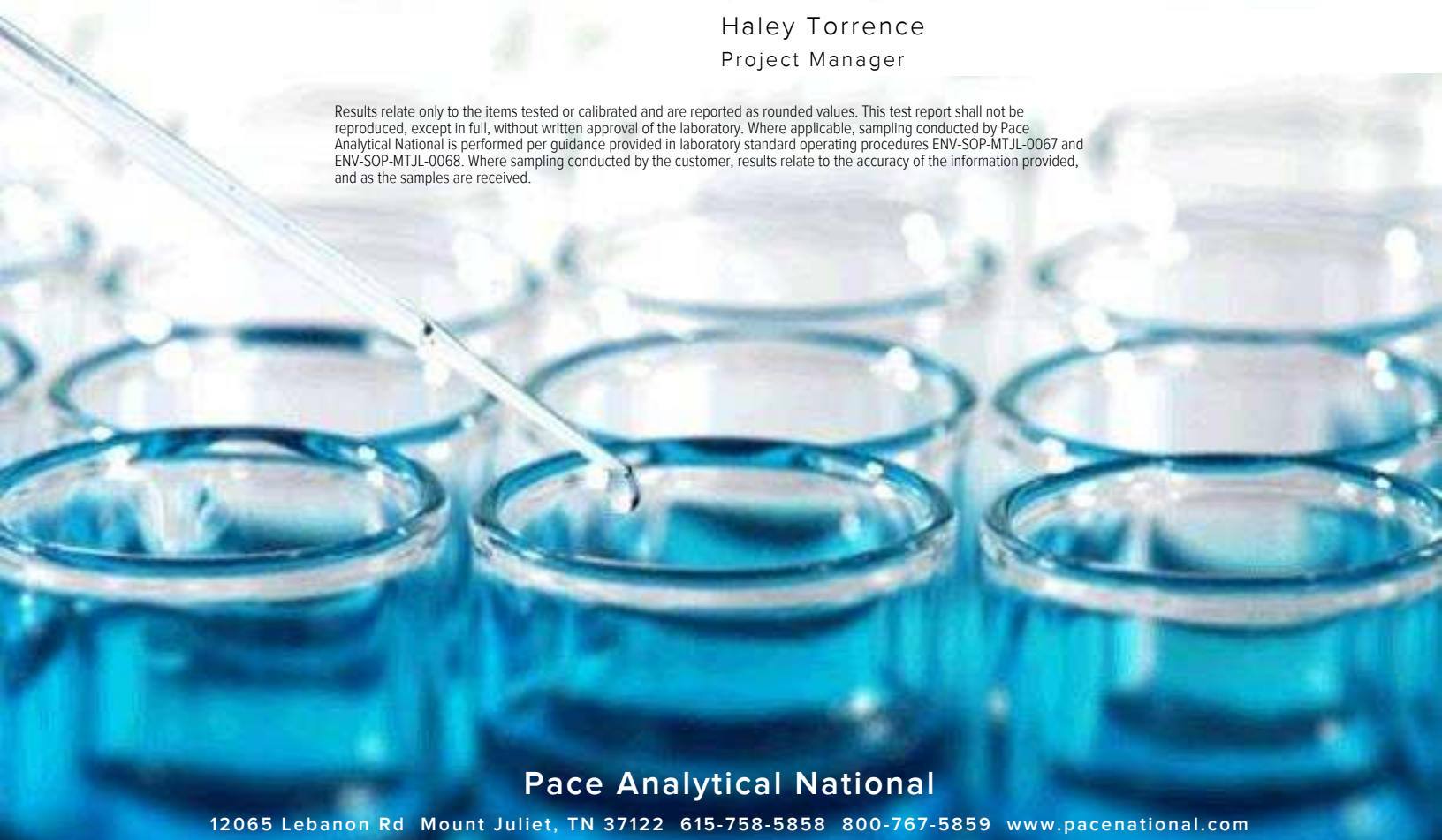
Sample Delivery Group: L1650713  
Samples Received: 08/29/2023  
Project Number: GH04878  
Description: Vistra Edwards  
Site: 01  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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.

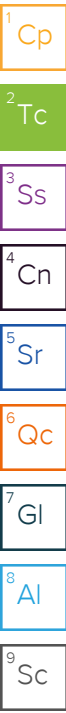


**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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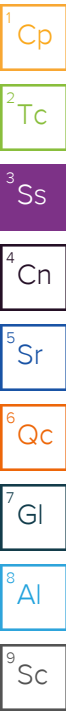


SAMPLE SUMMARY

AP05S L1650713-01 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/23/23 13:04 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN



APW-01 L1650713-02 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/23/23 14:42 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

AW-14 L1650713-03 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/23/23 15:53 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

AW-15 L1650713-04 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/23/23 12:55 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

AW-15S L1650713-05 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/23/23 14:25 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

AW-23 L1650713-06 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/23/23 10:44 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

# SAMPLE SUMMARY

## EB01 L1650713-07 Non-Potable Water

Collected by  
 Collected date/time 08/23/23 16:00  
 Received date/time 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

# 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

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

AP05S

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

SAMPLE RESULTS - 01

Collected date: 09/13/23 12:19

EDWARDS POWER PLANT, ASH POND

L1650713

EDW-845-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.519	J	0.320	0.552	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	108			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	96.5			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.40		0.519	0.661	09/08/2023 23:19	<a href="#">WG2123822</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.879		0.408	0.364	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	98.4			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.579		0.325	0.558	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	99.7			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	102			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.737		0.400	0.657	09/08/2023 23:19	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.158	J	0.233	0.347	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	92.0			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

AW-14

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

SAMPLE RESULTS - 03

Collected date/time: 09/13/23 15:53

EDWARDS POWER PLANT, ASH POND

L1650713

EDW-845-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.99		0.446	0.704	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	103			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	91.6			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.53		0.563	0.791	09/08/2023 23:19	<a href="#">WG2123822</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.547		0.343	0.361	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	109			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

6 Qc

7 Gl

8 Al

9 Sc

AW-15

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

SAMPLE RESULTS - 04

Collected date/time: 09/13/23 12:55

EDWARDS POWER PLANT, ASH POND

L1650713

EDW-845-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	3.91		0.380	0.554	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	114			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	109			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	6.12		0.697	0.620	09/08/2023 23:19	<a href="#">WG2123822</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.21		0.584	0.279	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	103			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.737		0.261	0.439	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	101			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	104			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.02		0.396	0.589	09/08/2023 23:19	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.280	J	0.298	0.392	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	73.3			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.384	J	0.394	0.685	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	113			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	92.7			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.803		0.481	0.736	09/08/2023 23:19	<a href="#">WG2123822</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.419		0.276	0.269	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	107			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

6 Qc

7 Gl

8 Al

9 Sc

EB01

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

# SAMPLE RESULTS - 07

Collected date/time: 09/13/23 16:06

845 QUARTERLY REPORT - QUARTER 3, 2023

L1650713

EDWARDS POWER PLANT, ASH POND

EDW-845-301

## Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.103	<u>U</u>	0.419	0.735	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	110			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	89.6			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

1 Cp

2 Tc

3 Ss

## Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.103	<u>U</u>	0.433	0.781	09/08/2023 23:19	<a href="#">WG2123822</a>

4 Cn

5 Sr

## Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.000	<u>U</u>	0.111	0.265	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	96.3			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3972128-1 09/06/23 20:57

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.235	↓	0.179	0.311
(T) Barium	116		116	
(T) Yttrium	103		103	

L1650713-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1650713-07 09/06/23 20:57 • (DUP) R3972128-5 09/06/23 20:57

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.103	0.419	0.735	1.28	0.335	0.735	1	170	2.19		20	3
(T) Barium	110			109	109							
(T) Yttrium	89.6			109	109							

Laboratory Control Sample (LCS)

(LCS) R3972128-2 09/06/23 20:57

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.94	98.8	80.0-120	
(T) Barium			121		
(T) Yttrium			102		

L1650654-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650654-07 09/06/23 20:57 • (MS) R3972128-3 09/06/23 20:57 • (MSD) R3972128-4 09/06/23 20:57

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	0.746	17.3	16.1	99.4	91.7	1	70.0-130			7.66		20
(T) Barium		115			115	111							
(T) Yttrium		98.3			107	99.9							



Method Blank (MB)

(MB) R3971134-4 09/09/23 00:14

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.0117	<u>U</u>	0.0229	0.0411
(T) Barium-133	60.1		60.1	

L1650654-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1650654-01 09/08/23 18:01 • (DUP) R3971134-3 09/08/23 18:01

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.147	0.189	0.269	-0.0296	0.156	0.269	1	200	0.722	<u>U</u>	20	3
(T) Barium-133	101			77.2	77.2							

Laboratory Control Sample (LCS)

(LCS) R3971134-5 09/09/23 14:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.02	80.2	80.0-120	
(T) Barium-133			76.9		

L1650713-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650713-05 09/08/23 23:19 • (MS) R3971134-1 09/08/23 18:01 • (MSD) R3971134-2 09/08/23 18:01

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.280	18.0	19.4	88.8	95.7	1	75.0-125			7.42		20
(T) Barium-133		73.3			79.8	77.1							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 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.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

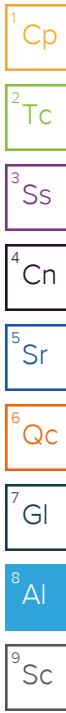
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.









September 11, 2023

Gail Shindler  
Pace Peoria  
2231 W Altorfer Dr  
Peoria, IL 61615

RE: Project: GH05497/Vistra - Edwards  
Pace Project No.: 50353062

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on September 01, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Patterson  
heather.patterson@pacelabs.com  
(317)228-3146  
Project Manager

Enclosures

cc: Diane Billings, Pace IL/MO  
Janet Clutters, Pace Analytical Peoria  
Taylor Cordle, Pace Analytical Peoria  
Jon Robert Handshy, Pace Hazelwood  
Amy Holmes, Pace Hazelwood  
Chenise Lambert-Sykes, Pace Analytical Peoria  
Erin Lane, Pace Peoria  
Jennifer Solomon, Pace Analytical Peoria



## REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: GH05497/Vistra - Edwards  
Pace Project No.: 50353062

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**Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
Wisconsin Laboratory #: 999788130  
USDA Foreign Soil Permit #: 525-23-13-23119  
USDA Compliance Agreement #: IN-SL-22-001

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**SAMPLE SUMMARY**

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50353062001	AP07S	Water	08/28/23 10:47	09/01/23 09:30
50353062002	AW-05	Water	08/28/23 14:49	09/01/23 09:30
50353062003	AW-06	Water	08/28/23 16:10	09/01/23 09:30
50353062004	AW-08	Water	08/28/23 14:40	09/01/23 09:30
50353062005	AW-10	Water	08/28/23 13:04	09/01/23 09:30
50353062006	AW-11	Water	08/28/23 11:10	09/01/23 09:30
50353062007	EMW-05	Water	08/28/23 13:20	09/01/23 09:30
50353062008	XPW03	Water	08/28/23 16:16	09/01/23 09:30
50353062009	EB 02	Water	08/28/23 16:25	09/01/23 09:30

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**SAMPLE ANALYTE COUNT**

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50353062001	AP07S	RSK 175 Modified	TAY	3	PASI-I
50353062002	AW-05	RSK 175 Modified	TAY	3	PASI-I
50353062003	AW-06	RSK 175 Modified	TAY	3	PASI-I
50353062004	AW-08	RSK 175 Modified	TAY	3	PASI-I
50353062005	AW-10	RSK 175 Modified	TAY	3	PASI-I
50353062006	AW-11	RSK 175 Modified	TAY	3	PASI-I
50353062007	EMW-05	RSK 175 Modified	TAY	3	PASI-I
50353062008	XPW03	RSK 175 Modified	TAY	3	PASI-I
50353062009	EB 02	RSK 175 Modified	TAY	3	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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**SUMMARY OF DETECTION**

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50353062004	AW-08					
50353062005	AW-10					
50353062006	AW-11					
50353062008	XPW03					

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**ANALYTICAL RESULTS**

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample: AP07S</b>	<b>Lab ID: 50353062001</b>	Collected: 08/28/23 10:47	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample:</b> AW-05	<b>Lab ID:</b> 50353062002	Collected: 08/28/23 14:49	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample: AW-06</b>	<b>Lab ID: 50353062003</b>	Collected: 08/28/23 16:10	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample: AW-08</b>	<b>Lab ID: 50353062004</b>	Collected: 08/28/23 14:40	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample: AW-10</b>	<b>Lab ID: 50353062005</b>	Collected: 08/28/23 13:04	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample:</b> AW-11	<b>Lab ID:</b> 50353062006	Collected: 08/28/23 11:10	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample: EMW-05</b>	<b>Lab ID: 50353062007</b>	Collected: 08/28/23 13:20	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample:</b> XPW03	<b>Lab ID:</b> 50353062008	Collected: 08/28/23 16:16	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample: EB 02</b>	<b>Lab ID: 50353062009</b>	Collected: 08/28/23 16:25	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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**QUALITY CONTROL DATA**

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

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QC Batch:	751446	Analysis Method:	RSK 175 Modified
QC Batch Method:	RSK 175 Modified	Analysis Description:	RSK 175 HEADSPACE
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50353062001, 50353062002, 50353062003, 50353062007, 50353062009

---

METHOD BLANK: 3443675 Matrix: Water  
 Associated Lab Samples: 50353062001, 50353062002, 50353062003, 50353062007, 50353062009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
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LABORATORY CONTROL SAMPLE: 3443676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
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SAMPLE DUPLICATE: 3443677

Parameter	Units	50353062001 Result	Dup Result	RPD	Max RPD	Qualifiers
-----------	-------	--------------------	------------	-----	---------	------------

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL DATA**

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

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QC Batch: 751593 Analysis Method: RSK 175 Modified  
 QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50353062004, 50353062005, 50353062006, 50353062008

---

METHOD BLANK: 3444332 Matrix: Water  
 Associated Lab Samples: 50353062004, 50353062005, 50353062006, 50353062008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
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LABORATORY CONTROL SAMPLE: 3444333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
-----------	-------	-------------	------------	-----------	--------------	------------

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
 ND - Not Detected at or above adjusted reporting limit.  
 TNTC - Too Numerous To Count  
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
 MDL - Adjusted Method Detection Limit.  
 PQL - Practical Quantitation Limit.  
 RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
 S - Surrogate  
 1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
 Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
 LCS(D) - Laboratory Control Sample (Duplicate)  
 MS(D) - Matrix Spike (Duplicate)  
 DUP - Sample Duplicate  
 RPD - Relative Percent Difference  
 NC - Not Calculable.  
 SG - Silica Gel - Clean-Up  
 U - Indicates the compound was analyzed for, but not detected.  
 N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
 Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.  
 Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
 TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: 751593  
 [BM] Matrix precision data could not be provided for this analytical batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

BM Matrix precision data could not be provided for this analytical batch due to insufficient sample volume.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50353062001	AP07S	RSK 175 Modified	751446		
50353062002	AW-05	RSK 175 Modified	751446		
50353062003	AW-06	RSK 175 Modified	751446		
50353062004	AW-08	RSK 175 Modified	751593		
50353062005	AW-10	RSK 175 Modified	751593		
50353062006	AW-11	RSK 175 Modified	751593		
50353062007	EMW-05	RSK 175 Modified	751446		
50353062008	XPW03	RSK 175 Modified	751593		
50353062009	EB 02	RSK 175 Modified	751446		

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**SAMPLE CONDITION UPON RECEIPT FORM**



Date/Time and Initials of person examining contents: 9/1/23 19:43 TH

1. Courier:  FED EX  UPS  CLIENT  PACE  NOW/JETT  OTHER \_\_\_\_\_

2. Custody Seal on Cooler/Box Present:  Yes  No  
 (If yes) Seals Intact:  Yes  No (leave blank if no seals were present)

3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**

4. Cooler Temperature(s): 1.8/2.1     
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material:  Bubble Wrap  Bubble Bags  
 None  Other \_\_\_\_\_

6. Ice Type:  Wet  Blue  None

7. If temp. is over 6°C or under 0°C, was the PM notified?:  Yes  No  
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Containers Intact?:	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

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# ANALYTICAL REPORT

October 03, 2023

## Pace IR - Peoria, IL

Sample Delivery Group: L1652263  
Samples Received: 09/01/2023  
Project Number: GH05497  
Description: Vistra-Edwards  
Site: 001  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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.

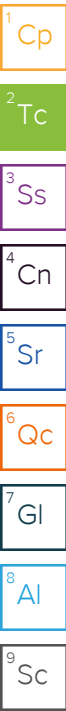
Pace Analytical National

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

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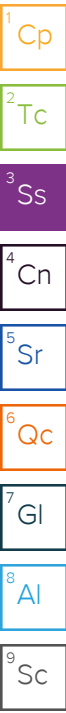


SAMPLE SUMMARY

AP07S L1652263-01 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/28/23 10:47 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN



AW-05 L1652263-02 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/28/23 14:49 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

AW-06 L1652263-03 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/28/23 16:10 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

AW-08 L1652263-04 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/28/23 14:40 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

AW-10 L1652263-05 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/28/23 13:04 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

AW-11 L1652263-06 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/28/23 11:10 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN



# SAMPLE SUMMARY

## EMW-05 L1652263-07 Non-Potable Water

Collected by  
 Collected date/time 08/28/23 13:20  
 Received date/time 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

## XPW03 L1652263-08 Non-Potable Water

Collected by  
 Collected date/time 08/28/23 16:16  
 Received date/time 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

## EB 02 L1652263-09 Non-Potable Water

Collected by  
 Collected date/time 08/28/23 16:25  
 Received date/time 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	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

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

AP07S

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

# SAMPLE RESULTS - 01

Collected date/time: 09/28/23 10:17

EDWARDS POWER PLANT, ASH POND

L1652263

EDW-845-301

## Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.134	<u>U</u>	0.217	0.405	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	119			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	94.0			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

1 Cp

2 Tc

3 Ss

## Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.26		0.474	0.483	09/22/2023 14:40	<a href="#">WG2130036</a>

4 Cn

5 Sr

## Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.13		0.421	0.263	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	93.3			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc

AW-05

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

SAMPLE RESULTS - 02

Collected date/time: 09/22/2023 14:40

EDWARDS POWER PLANT, ASH POND

L1652263

EDW-845-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.0372	<u>U</u>	0.474	0.887	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	107			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	78.9			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0965	<u>U</u>	0.498	0.919	09/22/2023 14:40	<a href="#">WG2130036</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0965	<u>J</u>	0.154	0.240	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	93.6			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc

AW-06

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

SAMPLE RESULTS - 03

Collected date/time: 09/22/2023 16:10

EDWARDS POWER PLANT, ASH POND

L1652263

EDW-845-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.253	<u>U</u>	0.228	0.437	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	116			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	109			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.107	<u>U</u>	0.270	0.484	09/22/2023 14:40	<a href="#">WG2130036</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.107	<u>J</u>	0.144	0.208	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	109			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc

AW-08

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023

SAMPLE RESULTS - 04

Collected date/time: 09/22/2023 14:40

EDWARDS POWER PLANT, ASH POND

L1652263

EDW-845-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.876	<u>U</u>	0.264	0.517	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	139			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	98.1			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.434	<u>J</u>	0.388	0.591	09/22/2023 14:40	<a href="#">WG2130036</a>

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.434		0.285	0.287	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	99.3			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.26		0.387	0.658	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	132			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	94.5			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.03		0.678	0.736	09/22/2023 14:40	<a href="#">WG2130036</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.77		0.557	0.329	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	89.5			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc

AW-11

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

SAMPLE RESULTS - 06

Collected date/time: 09/28/23 11:10

EDWARDS POWER PLANT, ASH POND

L1652263

EDW-845-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.953		0.266	0.471	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	113			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	94.9			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.45		0.559	0.534	09/22/2023 14:40	<a href="#">WG2130036</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.50		0.492	0.251	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	93.7			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.475	J	0.280	0.511	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	147	C1		30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	98.6			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.499	J	0.335	0.617	09/22/2023 14:40	<a href="#">WG2130036</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0242	U	0.184	0.346	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	85.6			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



XPW03

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

# SAMPLE RESULTS - 08

Collected date/time: 09/22/2023 16:16

EDWARDS POWER PLANT, ASH POND

L1652263

EDW-845-301

## Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.340	<u>U</u>	0.295	0.559	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	113			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	105			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

1 Cp

2 Tc

3 Ss

## Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.261	<u>J</u>	0.368	0.607	09/22/2023 14:40	<a href="#">WG2130036</a>

4 Cn

5 Sr

## Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.261		0.220	0.236	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	92.2			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.0351	<u>U</u>	0.301	0.562	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	120			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	90.0			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.263	<u>J</u>	0.368	0.621	09/22/2023 14:40	<a href="#">WG2130036</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.228	<u>J</u>	0.212	0.264	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	107			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc

# QUALITY CONTROL SUMMARY

[L1652263-01.02.03.04.05.06.07.08.09](#)

## Method Blank (MB)

(MB) R3978600-1 09/22/23 14:40

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-228	-0.0308	<u>U</u>	0.174	0.328
(T) Barium	116		116	
(T) Yttrium	117		117	

## L1652263-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1652263-01 09/22/23 14:40 • (DUP) R3978600-5 09/22/23 14:40

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-228	0.134	0.217	0.405	0.537	0.326	0.597	1	120	1.03	<u>J</u>	20	3
(T) Barium	119			116	116							
(T) Yttrium	94.0			95.8	95.8							

## Laboratory Control Sample (LCS)

(LCS) R3978600-2 09/22/23 14:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-228	5.00	4.57	91.3	80.0-120	
(T) Barium			90.3		
(T) Yttrium			98.1		

## L1650760-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650760-02 09/22/23 14:40 • (MS) R3978600-3 09/22/23 14:40 • (MSD) R3978600-4 09/22/23 14:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-228	10.0	0.352	14.3	11.8	140	114	1	70.0-130	<u>J5</u>		19.4		20
(T) Barium		104			122	95.0							
(T) Yttrium		89.0			78.5	83.7							

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3981103-1 09/15/23 15:33

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.00320	<u>U</u>	0.0756	0.145
(T) Barium-133	52.0		52.0	

L1652263-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1652263-09 09/15/23 19:27 • (DUP) R3981103-5 09/15/23 15:33

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.228	0.212	0.264	-0.0166	0.126	0.300	1	200	0.993	<u>U</u>	20	3
(T) Barium-133	107			86.4	86.4							

Laboratory Control Sample (LCS)

(LCS) R3981103-2 09/15/23 15:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.62	112	80.0-120	
(T) Barium-133			64.5		

L1651386-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1651386-07 09/15/23 19:27 • (MS) R3981103-3 09/15/23 15:33 • (MSD) R3981103-4 09/15/23 15:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.799	21.5	17.9	104	85.4	1	75.0-125			18.4		20
(T) Barium-133		92.7			82.5	84.5							



# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

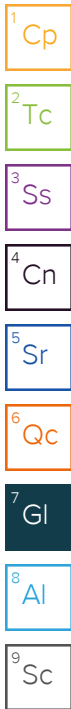
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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
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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
U	Below Detectable Limits: Indicates that the analyte was not detected.



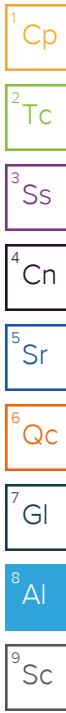
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.









September 11, 2023

Gail Shindler  
Pace Peoria  
2231 W Altorfer Dr  
Peoria, IL 61615

RE: Project: GH05671/ Vistra - Edwards  
Pace Project No.: 50353060

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on September 01, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:  
• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Patterson  
heather.patterson@pacelabs.com  
(317)228-3146  
Project Manager

Enclosures

cc: Diane Billings, Pace IL/MO  
Janet Clutters, Pace Analytical Peoria  
Taylor Cordle, Pace Analytical Peoria  
Jon Robert Handshy, Pace Hazelwood  
Amy Holmes, Pace Hazelwood  
Chenise Lambert-Sykes, Pace Analytical Peoria  
Erin Lane, Pace Peoria  
Jennifer Solomon, Pace Analytical Peoria



**REPORT OF LABORATORY ANALYSIS**

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### CERTIFICATIONS

Project: GH05671/ Vistra - Edwards  
Pace Project No.: 50353060

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**Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
Wisconsin Laboratory #: 999788130  
USDA Foreign Soil Permit #: 525-23-13-23119  
USDA Compliance Agreement #: IN-SL-22-001

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### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: GH05671/ Vistra - Edwards  
Pace Project No.: 50353060

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50353060001	AW-09	Water	08/29/23 11:50	09/01/23 09:30

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**SAMPLE ANALYTE COUNT**

Project: GH05671/ Vistra - Edwards  
 Pace Project No.: 50353060

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50353060001	AW-09	RSK 175 Modified	TAY	3	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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**SUMMARY OF DETECTION**

Project: GH05671/ Vistra - Edwards  
 Pace Project No.: 50353060

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50353060001	AW-09					

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### ANALYTICAL RESULTS

Project: GH05671/ Vistra - Edwards  
 Pace Project No.: 50353060

<b>Sample: AW-09</b>	<b>Lab ID: 50353060001</b>	Collected: 08/29/23 11:50	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: GH05671/ Vistra - Edwards  
 Pace Project No.: 50353060

QC Batch: 751804	Analysis Method: RSK 175 Modified
QC Batch Method: RSK 175 Modified	Analysis Description: RSK 175 HEADSPACE
	Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50353060001

METHOD BLANK: 3445357 Matrix: Water  
 Associated Lab Samples: 50353060001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
-----------	-------	--------------	-----------------	----------	------------

LABORATORY CONTROL SAMPLE: 3445358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
-----------	-------	-------------	------------	-----------	--------------	------------

SAMPLE DUPLICATE: 3445359

Parameter	Units	50353070015 Result	Dup Result	RPD	Max RPD	Qualifiers
-----------	-------	--------------------	------------	-----	---------	------------

SAMPLE DUPLICATE: 3445360

Parameter	Units	50353070016 Result	Dup Result	RPD	Max RPD	Qualifiers
-----------	-------	--------------------	------------	-----	---------	------------

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: GH05671/ Vistra - Edwards  
Pace Project No.: 50353060

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: GH05671/ Vistra - Edwards  
 Pace Project No.: 50353060

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50353060001	AW-09	RSK 175 Modified	751804		

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE CONDITION UPON RECEIPT FORM**

Pace

Date/Time and Initials of person examining contents: 9/1/23 19:43 TH

1. Courier:  FED EX  UPS  CLIENT  PACE  NOW/JETT  OTHER \_\_\_\_\_
2. Custody Seal on Cooler/Box Present:  Yes  No  
 (If yes)Seals Intact:  Yes  No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H
4. Cooler Temperature(s): 1.8/2.1     
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material:  Bubble Wrap  Bubble Bags  
 None  Other \_\_\_\_\_
6. Ice Type:  Wet  Blue  None
7. If temp. is over 6°C or under 0°C, was the PM notified?:  Yes  No  
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			<input checked="" type="checkbox"/>
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?			<input checked="" type="checkbox"/>
			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

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# ANALYTICAL REPORT

October 03, 2023

## Pace IR - Peoria, IL

Sample Delivery Group: L1652265  
Samples Received: 09/01/2023  
Project Number: GH05671  
Description: Vistra-Edwards  
Site: 001  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

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<b>Cp: Cover Page</b>	1	
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<b>Cn: Case Narrative</b>	4	
<b>Sr: Sample Results</b>	5	
<b>AW-09 L1652265-01</b>	5	
<b>Qc: Quality Control Summary</b>	6	
<b>Radiochemistry by Method 904/9320</b>	6	
<b>Radiochemistry by Method SM7500Ra B M</b>	7	
<b>Gl: Glossary of Terms</b>	8	
<b>Al: Accreditations &amp; Locations</b>	9	
<b>Sc: Sample Chain of Custody</b>	10	

# SAMPLE SUMMARY

## AW-09 L1652265-01 Non-Potable Water

Collected by  
 Collected date/time 08/29/23 11:50  
 Received date/time 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2132560	1	09/14/23 18:09	09/18/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/18/23 21:28	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Gl
- <sup>8</sup>Al
- <sup>9</sup>Sc

# 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

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



AW-09

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 3, 2023

# SAMPLE RESULTS - 01

Collected date/time: 09/13/23 11:54

EDWARDS POWER PLANT, ASH POND

L1652265

EDW-845-301

## Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.12		0.287	0.506	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Barium	112			30.0-143	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Yttrium	100			30.0-136	09/18/2023 21:28	<a href="#">WG2132560</a>

1 Cp

2 Tc

3 Ss

## Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.52		0.374	0.551	09/18/2023 21:28	<a href="#">WG2130036</a>

4 Cn

5 Sr

## Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.402		0.240	0.218	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	91.8			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3975641-1 09/18/23 21:28

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.779		0.218	0.390
(T) Barium	79.4		79.4	
(T) Yttrium	103		103	

L1650771-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1650771-01 09/18/23 21:28 • (DUP) R3975641-5 09/18/23 21:28

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.80	0.243	0.400	1.93	0.465	0.821	1	6.65	0.236		20	3
(T) Barium	121			84.6	84.6							
(T) Yttrium	92.0			83.2	83.2							

Laboratory Control Sample (LCS)

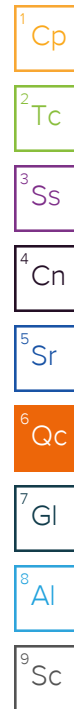
(LCS) R3975641-2 09/18/23 21:28

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.90	97.9	80.0-120	
(T) Barium			96.1		
(T) Yttrium			98.1		

L1650762-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650762-07 09/18/23 21:28 • (MS) R3975641-3 09/18/23 21:28 • (MSD) R3975641-4 09/18/23 21:28

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	10.0	-0.538	8.83	9.60	88.3	96.0	1	70.0-130			8.35		20
(T) Barium		135			126	112							
(T) Yttrium		108			87.6	95.3							



Method Blank (MB)

(MB) R3981103-1 09/15/23 15:33

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.00320	<u>U</u>	0.0756	0.145
(T) Barium-133	52.0		52.0	

L1652263-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1652263-09 09/15/23 19:27 • (DUP) R3981103-5 09/15/23 15:33

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.228	0.212	0.264	-0.0166	0.126	0.300	1	200	0.993	<u>U</u>	20	3
(T) Barium-133	107			86.4	86.4							

Laboratory Control Sample (LCS)

(LCS) R3981103-2 09/15/23 15:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.62	112	80.0-120	
(T) Barium-133			64.5		

L1651386-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1651386-07 09/15/23 19:27 • (MS) R3981103-3 09/15/23 15:33 • (MSD) R3981103-4 09/15/23 15:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.799	21.5	17.9	104	85.4	1	75.0-125			18.4		20
(T) Barium-133		92.7			82.5	84.5							



# 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.

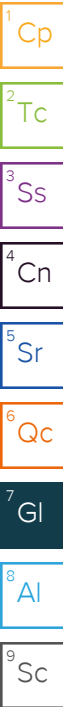
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

U	Below Detectable Limits: Indicates that the analyte was not detected.
---	---



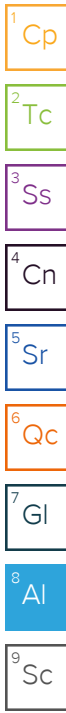
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



Internal Transfer Chain of Custody

State of Origin: IL  
 Cert. Needed:  YES  NO



Workorder: GH05671

Workorder Name: Vistra - Edwards

Owner Received Date: 8/29/2023

Results Required By: 9/12/2023

Report To: Diane Billings  
 Pace Analytical - IL/MO  
 2231 W. Altorfer Drive  
 Peoria, IL 61615  
 800-752-6651

Subcontract To: Pace Analytical - Mt Juliet  
 12065 Lebanon Rd  
 Mt Juliet TN 37122

Requested Analysis

PH-10BDH4321 TRC-2144141  
 CR6-20221V  
 PH-10BDH4321 TRC-2144141  
 CR6-20221V

1204

LAB USE ONLY

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis																
1	AW-09	GRAB	8/29/2023 11:50	GH05671-01	GW	X	Radium 226/228																
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>[Signature]</i>	8/31/23 11:37	<i>[Signature]</i>	9/11/23 0900	Needs reported as 226, 228 and also combined 226/228
2					
3					Include QC summary and edd

Cooler Temperature on Receipt \_\_\_\_\_ °C Custody Seal  Y or N Received on Ice  Y or N Sample Intact  Y or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist 6319 6005 5697  
 COC Seal Present/Intact:  Y  N If Applicable  
 COC Signed/Accurate:  Y  N VOA Zero Headspace:  Y  N  
 Bottles arrive intact:  Y  N Pres. Correct/Check:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 RAD Screen <0.5 mR/hr:  Y  N  
 GRAB 18-2 + 0 = 18-2





Ship to :  
 Pace Analytical Services, LLC  
 1638 Roseytown Rd - Suites 2,3,4  
 Greensburg, PA 15601  
 (724)850-5600

11052216

INTER LABORATORY WORK ORDER # GH05671

(To be complete by sending lab)

Sending Project No:	GH05671
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	8/30/2023
REQUESTED COMPLETION DATE:	9/12/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Diane Billings
Receiving Region	MT JULIET	External Client	Vistra - Edwards
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units \_\_\_\_\_ Report Wet or Dry Weight? \_\_\_\_\_ Cert Needed: IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		1		1	\$242.10	\$242.10
		1		1	\$0.00	\$0.00
		1		1	\$0.00	\$0.00
<b>TOTAL</b>						<b>\$242.10</b>

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$242.10	\$193.68	\$48.42
<b>TOTAL</b>			<b>\$193.68</b>	<b>\$48.42</b>

\* Custom Revenue Allocation

Return Samples to Sending Region:  Yes  No

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

CONFIRMATION OF WORK COMPLETED

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

Original sent to the receiving lab - Copy kept at the sending lab.  
 When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to incorporate as needed.







GH04572  
VMW 8-22-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 1 of 2	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</b>	
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		NPDES <b>GROUND WATER</b> <b>DRINKING WATER</b>	
Phone: (217) 753-8911   Fax:		Project Name:		Quote Reference:		UST <b>RCRA</b> <b>OTHER</b>	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Site Location	
				Profile #:		STATE: <b>IL</b>	

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WIP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.		
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	EDW-257-301	EDW-845-301	EDW-SUP-000			EDW-CAP-301	
																								Y
1	AP05S																							
2	AP07S																							
3	APW-01																							
4	AW-01																							
5	AW-05																							
6	AW-06																							
7	AW-08																							
8	AW-09																							
9	AW-10																							
10	AW-11																							
11	AW-14																							
12	AW-15																							
13	AW-15S																							
14	AW-16																							
15	AW-17																							
16	AW-18																							
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS														
EDW-23Q3-Rev 0		<i>[Signature]</i>		8/22/23	1640	<i>[Signature]</i>		8-22-23	1640	18.2	Y	N	Y											
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>Harry Rembert</i>																								
SIGNATURE of SAMPLER: <i>[Signature]</i>														DATE Signed (MM/DD/YY): 08/22/23										

### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**

Required Client Information:

**Section B**

Required Project Information:

**Section C**

Invoice Information:

Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>	
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>	
Phone: <b>(217) 753-8911</b>	Fax:	Project Name:		Quote Reference:	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:	
				Profile #:	

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPF)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301			
																								Y/N
1	AW-19		W/G	G	8/22/23	1257	15	X	X															
2	AW-20		W/G	G	8/22/23	1434	15	X	X															
3	AW-21		W/G	G	8/22/23	1604	15	X	X															
4	AW-23																							
5	EMW-05																							
6	SG-01																							
7	SG-02																							
8	SG-03																							
9	XPW01A																							
10	XPW02		W/G	G	8/22/23	1557	15	X	X															
11	XPW03																							
12	Field Blank		W/G	G	8/22/23	1111	15	X	X															
13	AW01 Dup		W/G	G	8/22/23	1428	15	X	X															
14																								
15																								
16																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>[Signature]</i>	8/22/23	1640	<i>[Signature]</i>	8-22-23	1640	18.2	Y	N	Y

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>Avatar Penetration</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/22/23		

G#04878  
mmw 8.24.23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>				
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		UST    RCRA    OTHER		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		Site Location		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		STATE: <b>IL</b>		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Profile #:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other					
1	AP05S		WT	G	8/23/23	1304	15	X	X	X											
2	AP07S																				
3	APW-01		WT	G	8/23/23	1442	15	X	X	Y											
4	AW-01																				
5	AW-05																				
6	AW-06																				
7	AW-08																				
8	AW-09																				
9	AW-10																				
10	AW-11																				
11	AW-14		WT	G	8/23/23	1553	15	X	X	X											
12	AW-15		WT	G	8/23/23	1255	15	X	X	X											
13	AW-15S		WT	G	8/23/23	1425	15	X	X	X											
14	AW-16																				
15	AW-17																				
16	AW-18																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
EDW-23Q3-Rev 0	<i>[Signature]</i>	8/23/23	1634	<i>[Signature]</i>	8-23-23	1634	11.7	Y	N	Y	

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>Aaron Penickton</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/23/23		

GH04878  
VMW 8-24-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**

**Required Client Information:**  
 Company: Vistra Corp  
 Address: 13498 E. 900th St  
 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: Jason Stuckey  
 Purchase Order No.:  
 Project Name:  
 Project Number: 2285

**Section C**

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

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.		
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	EDW-257-301	EDW-845-301	EDW-SUP-000			EDW-CAP-301	
1	AW-19																							
2	AW-20																							
3	AW-21																							
4	AW-23																							
5	EMW-05																							
6	SG-01																							
7	SG-02																							
8	SG-03																							
9	XPW01A																							
10	XPW02																							
11	XPW03																							
12	Field Blank																							
13	EB01																							
14																								
15																								
16																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>[Signature]</i>	8/23/23	1634	<i>[Signature]</i>	8-23-23	1634	11.7	Y	N	Y

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Aaron Pemberton  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed (MM/DD/YY): 08/23/23

GH05497  
mmw 8-29-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 1 of 2	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</b>	
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		NPDES    GROUND WATER    DRINKING WATER	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		UST    RCRA    OTHER	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Site Location	
				Profile #:		STATE: <b>IL</b>	

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / . - ) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX    CODE DRINKING WATER    DW WATER    WT WASTE WATER    WW PRODUCT    P SOL/SOLID    SL OIL    OL 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 ↓ Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No / Lab ID.				
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol	Other					EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301
1	AP05S																							
2	AP07S		WT G		8/28/23	1047	15	X	X	X														
3	APW-01																							
4	AW-01																							
5	AW-05		WT G		8/28/23	1449	15	X	X	X														
6	AW-06		WT G		8/28/23	1610	15	X	X	X														
7	AW-08		WT G		8/28/23	1440	15	X	X	X														
8	AW-09																							
9	AW-10		WT G		8/28/23	1304	15	X	X	X														
10	AW-11		WT G		8/28/23	1110	15	X	X	X														
11	AW-14																							
12	AW-15																							
13	AW-15S																							
14	AW-16																							
15	AW-17																							
16	AW-18																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
EDW-23Q3-Rev 0	<i>[Signature]</i>	08/28/23	1701	<i>[Signature]</i>	8-29-23	700	2.9	Y	N	Y	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Container (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Arron Remke/lor</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/28/23		





GH05671  
JMU 8.29.23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Address: <b>see Section A</b>		NPDES <b>GROUND WATER</b> <b>DRINKING WATER</b>		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		UST <b>RCRA</b> <b>OTHER</b>		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		Site Location		IL
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		STATE:		

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No / Lab I.D.				
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other					EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301
1	AP05S																							
2	AP07S																							
3	APW-01																							
4	AW-01																							
5	AW-05																							
6	AW-06																							
7	AW-08																							
8	AW-09				8/29/23	1150	15																	
9	AW-10																							
10	AW-11																							
11	AW-14																							
12	AW-15																							
13	AW-15S																							
14	AW-16																							
15	AW-17																							
16	AW-18																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
EDW-23Q3-Rev 0	<i>Joseph A Reed</i>	1/10/23	8/29/23	<i>Joe Reed</i>	8/29/23	1409	1.7	Y	N	Y	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Joe Reed</i>				
SIGNATURE of SAMPLER:	<i>Joseph A Reed</i>	DATE Signed (MM/DD/YY):	8/29/23		



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

October 12, 2023

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](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in black ink that reads "Diane Billings". The signature is written in a cursive, flowing style.

Diane Billings  
Project Manager



**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

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Work Order      GH04553

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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

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Work Order    GH04842

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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
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

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Work Order    GH05495

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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
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

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Work Order    GH05632

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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
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:** GH04553-03  
**Name:** AW-20  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 14:34  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	88	mg/L		08/23/23 13:58	10	10	08/23/23 13:58	CRD	EPA 300.0 REV 2.1
Sulfate	59	mg/L		08/23/23 13:58	10	10	08/23/23 13:58	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	16.87	Feet		08/22/23 14:34	1		08/22/23 14:34	FIELD	Field*
Dissolved oxygen, Field	0.54	mg/L		08/22/23 14:34	1		08/22/23 14:34	FIELD	Field*
Oxidation Reduction Potential	-60.0	mV		08/22/23 14:34	1	-500	08/22/23 14:34	FIELD	Field*
pH, Field Measured	6.24	pH Units		08/22/23 14:34	1		08/22/23 14:34	FIELD	Field*
Specific Conductance, Field Measured	1310	umhos/cm		08/22/23 14:34	1		08/22/23 14:34	FIELD	Field*
Temperature, Field Measured	17.4	°C		08/22/23 14:34	1		08/22/23 14:34	FIELD	Field*
Turbidity, Field Measured	18.6	NTU		08/22/23 14:34	1	0.00	08/22/23 14:34	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	600	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Fluoride	0.285	mg/L		08/30/23 18:05	1	0.250	08/30/23 18:05	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	850	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 12:13	TJJ	EPA 6020A
Arsenic	11	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:13	TJJ	EPA 6020A
Barium	140	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:13	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 08:54	TJJ	EPA 6020A
Boron	3400	ug/L		08/28/23 08:52	5	10	08/31/23 08:54	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:13	TJJ	EPA 6020A
Calcium	160	mg/L		08/28/23 08:52	5	0.20	08/29/23 12:13	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 12:13	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 12:13	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:13	TJJ	EPA 6020A
Magnesium	61	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:13	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 12:13	TJJ	EPA 6020A
Molybdenum	2.4	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:13	TJJ	EPA 6020A
Potassium	0.98	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:13	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:13	TJJ	EPA 6020A
Sodium	64	mg/L		08/28/23 08:52	5	0.10	08/29/23 12:13	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GH04553-03  
**Name:** AW-20  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 14:34  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:13	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 11:07	BRS	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** GH04842-02  
**Name:** APW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 14:42  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	130	mg/L		08/24/23 12:08	25	25	08/24/23 12:08	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		08/24/23 11:48	1	0.250	08/24/23 11:48	TMS	EPA 300.0 REV 2.1
Sulfate	300	mg/L		08/24/23 12:27	100	100	08/24/23 12:27	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	6.23	Feet		08/23/23 14:42	1		08/23/23 14:42	FIELD	Field*
Dissolved oxygen, Field	2.8	mg/L		08/23/23 14:42	1		08/23/23 14:42	FIELD	Field*
Oxidation Reduction Potential	-83.0	mV		08/23/23 14:42	1	-500	08/23/23 14:42	FIELD	Field*
pH, Field Measured	6.50	pH Units		08/23/23 14:42	1		08/23/23 14:42	FIELD	Field*
Specific Conductance, Field Measured	1250	umhos/cm		08/23/23 14:42	1		08/23/23 14:42	FIELD	Field*
Temperature, Field Measured	25.6	°C		08/23/23 14:42	1		08/23/23 14:42	FIELD	Field*
Turbidity, Field Measured	16.9	NTU		08/23/23 14:42	1	0.00	08/23/23 14:42	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	390	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1000	mg/L	B2	08/25/23 10:34	1	26	08/25/23 11:45	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 13:11	TJJ	EPA 6020A
Arsenic	6.5	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:11	TJJ	EPA 6020A
Barium	69	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:11	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 09:14	TJJ	EPA 6020A
Boron	1000	ug/L		08/28/23 08:52	5	10	08/31/23 09:14	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:11	TJJ	EPA 6020A
Calcium	170	mg/L		08/28/23 08:52	5	0.20	08/29/23 13:11	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 13:11	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 13:11	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:11	TJJ	EPA 6020A
Magnesium	77	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:11	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 13:11	TJJ	EPA 6020A
Molybdenum	1.3	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:11	TJJ	EPA 6020A
Potassium	0.79	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:11	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:11	TJJ	EPA 6020A
Sodium	53	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:11	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GH04842-02  
**Name:** APW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 14:42  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:11	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 11:42	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GH04842-06  
**Name:** AW-23  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 10:44  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	49	mg/L		08/24/23 16:00	25	25	08/24/23 16:00	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		08/24/23 15:41	1	0.250	08/24/23 15:41	TMS	EPA 300.0 REV 2.1
Sulfate	230	mg/L		08/24/23 16:00	25	25	08/24/23 16:00	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	4.36	Feet		08/23/23 10:44	1		08/23/23 10:44	FIELD	Field*
Dissolved oxygen, Field	0.44	mg/L		08/23/23 10:44	1		08/23/23 10:44	FIELD	Field*
Oxidation Reduction Potential	-34.0	mV		08/23/23 10:44	1	-500	08/23/23 10:44	FIELD	Field*
pH, Field Measured	6.82	pH Units		08/23/23 10:44	1		08/23/23 10:44	FIELD	Field*
Specific Conductance, Field Measured	1260	umhos/cm		08/23/23 10:44	1		08/23/23 10:44	FIELD	Field*
Temperature, Field Measured	21.2	°C		08/23/23 10:44	1		08/23/23 10:44	FIELD	Field*
Turbidity, Field Measured	133	NTU		08/23/23 10:44	1	0.00	08/23/23 10:44	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	390	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		08/29/23 08:33	1	10	08/29/23 08:33	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	730	mg/L	B2	08/25/23 10:34	1	26	08/25/23 11:45	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 13:26	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:26	TJJ	EPA 6020A
Barium	45	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:26	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 09:45	TJJ	EPA 6020A
Boron	550	ug/L		08/28/23 08:52	5	10	08/31/23 09:45	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:26	TJJ	EPA 6020A
Calcium	140	mg/L		08/28/23 08:52	5	0.20	08/29/23 13:26	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 13:26	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 13:26	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:26	TJJ	EPA 6020A
Magnesium	55	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:26	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 13:26	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:26	TJJ	EPA 6020A
Potassium	1.1	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:26	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:26	TJJ	EPA 6020A
Sodium	64	mg/L		08/28/23 08:52	5	0.10	08/29/23 13:26	TJJ	EPA 6020A



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**ANALYTICAL RESULTS**

**Sample:** GH04842-06  
**Name:** AW-23  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 10:44  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:26	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 12:04	BRS	EPA 6010B

**ANALYTICAL RESULTS**

**Sample:** GH05495-07  
**Name:** EMW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 13:20  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	18	mg/L		08/29/23 16:50	5	5.0	08/29/23 16:50	CRD	EPA 300.0 REV 2.1
Sulfate	130	mg/L		08/29/23 17:09	25	25	08/29/23 17:09	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	20.84	Feet		08/28/23 13:20	1		08/28/23 13:20	FIELD	Field*
Dissolved oxygen, Field	1.0	mg/L		08/28/23 13:20	1		08/28/23 13:20	FIELD	Field*
Oxidation Reduction Potential	52.0	mV		08/28/23 13:20	1	-500	08/28/23 13:20	FIELD	Field*
pH, Field Measured	6.82	pH Units		08/28/23 13:20	1		08/28/23 13:20	FIELD	Field*
Specific Conductance, Field Measured	1340	umhos/cm		08/28/23 13:20	1		08/28/23 13:20	FIELD	Field*
Temperature, Field Measured	19.4	°C		08/28/23 13:20	1		08/28/23 13:20	FIELD	Field*
Turbidity, Field Measured	70.5	NTU		08/28/23 13:20	1	0.00	08/28/23 13:20	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	600	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		09/02/23 11:35	1	10	09/02/23 11:35	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		09/06/23 17:32	1	0.250	09/06/23 17:32	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	900	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 15:34	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:34	TJJ	EPA 6020A
Barium	62	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:34	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:34	TJJ	EPA 6020A
Boron	1000	ug/L		08/31/23 08:50	5	10	09/08/23 08:55	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:34	TJJ	EPA 6020A
Calcium	190	mg/L		08/31/23 08:50	5	0.20	09/06/23 15:34	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/31/23 08:50	5	4.0	09/06/23 15:34	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/31/23 08:50	5	2.0	09/06/23 15:34	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:34	TJJ	EPA 6020A
Magnesium	79	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:34	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 15:34	TJJ	EPA 6020A
Molybdenum	1.3	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:34	TJJ	EPA 6020A
Potassium	0.39	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:34	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:34	TJJ	EPA 6020A
Sodium	21	mg/L		08/31/23 08:50	5	0.10	09/06/23 15:34	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** GH05495-07  
**Name:** EMW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 13:20  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:34	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/31/23 08:50	1	20	09/06/23 09:54	BRS	EPA 6010B

**Sample:** GH05632-04  
**Name:** SG-02  
**Matrix:** Ground Water

**Sampled:** 08/21/23 10:03  
**Received:** 08/29/23 14:09

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

Depth, From Measuring Point	450	Feet		08/21/23 10:03	1		08/21/23 10:03	FIELD	Field*
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**Sample:** GH05632-05  
**Name:** SG-03  
**Matrix:** Ground Water

**Sampled:** 08/21/23 10:00  
**Received:** 08/29/23 14:09

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

Depth, From Measuring Point	448	Feet		08/21/23 10:00	1		08/21/23 10:00	FIELD	Field*
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### QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B342111 - No Prep - SM 2540C</u></b>									
<b>Blank (B342111-BLK1)</b>				Prepared & Analyzed: 08/24/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B342111-BS1)</b>				Prepared & Analyzed: 08/24/23					
Solids - total dissolved solids (TDS)	970	mg/L		1000		97	84.9-109		
<b>Duplicate (B342111-DUP2)</b>				Sample: GH04553-01 Prepared & Analyzed: 08/24/23					
Solids - total dissolved solids (TDS)	860	mg/L			830			4	5
<b><u>Batch B342126 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B342126-MS1)</b>				Sample: GH04553-01 Prepared & Analyzed: 08/23/23					
Sulfate	1.00E9	mg/L	Q4	1.500	52.0	NR	80-120		
Chloride	< 1.0	mg/L	Q1	1.500	12	NR	80-120		
<b>Matrix Spike Dup (B342126-MSD1)</b>				Sample: GH04553-01 Prepared & Analyzed: 08/23/23					
Sulfate	1.00E9	mg/L	Q4	1.500	52.0	NR	80-120	0	20
Chloride	< 1.0	mg/L	Q2	1.500	12	NR	80-120		20
<b><u>Batch B342242 - No Prep - SM 2540C</u></b>									
<b>Blank (B342242-BLK1)</b>				Prepared & Analyzed: 08/25/23					
Solids - total dissolved solids (TDS)	< 17	mg/L	B2						
<b>LCS (B342242-BS1)</b>				Prepared & Analyzed: 08/25/23					
Solids - total dissolved solids (TDS)	937	mg/L		1000		94	84.9-109		
<b>Duplicate (B342242-DUP1)</b>				Sample: GH04842-01 Prepared & Analyzed: 08/25/23					
Solids - total dissolved solids (TDS)	835	mg/L	M		890			6	5
<b><u>Batch B342256 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B342256-MS2)</b>				Sample: GH04842-01 Prepared & Analyzed: 08/24/23					
Sulfate	7.47	mg/L	Q1	1.500	5.56	127	80-120		
Chloride	< 1.0	mg/L	Q4	1.500	41	NR	80-120		
<b>Matrix Spike Dup (B342256-MSD2)</b>				Sample: GH04842-01 Prepared & Analyzed: 08/24/23					
Chloride	< 1.0	mg/L	Q4	1.500	41	NR	80-120		20
Sulfate	7.41	mg/L	Q2	1.500	5.56	123	80-120	0.8	20
<b><u>Batch B342344 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B342344-BLK1)</b>				Prepared: 08/28/23 Analyzed: 08/29/23					
Lithium	< 20	ug/L							
<b>LCS (B342344-BS1)</b>				Prepared: 08/28/23 Analyzed: 08/29/23					
Lithium	540	ug/L		555.6		97	80-120		
<b><u>Batch B342344 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B342344-BLK1)</b>				Prepared: 08/28/23 Analyzed: 08/29/23					
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							

**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Blank (B342344-BLK1)</b>				Prepared: 08/28/23 Analyzed: 08/29/23					
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							
<b>LCS (B342344-BS1)</b>				Prepared: 08/28/23 Analyzed: 08/29/23					
Antimony	574	ug/L		555.6		103	80-120		
Arsenic	555	ug/L		555.6		100	80-120		
Barium	560	ug/L		555.6		101	80-120		
Beryllium	572	ug/L		555.6		103	80-120		
Boron	551	ug/L		555.6		99	80-120		
Cadmium	537	ug/L		555.6		97	80-120		
Calcium	5.64	mg/L		5.556		101	80-120		
Chromium	561	ug/L		555.6		101	80-120		
Cobalt	545	ug/L		555.6		98	80-120		
Lead	556	ug/L		555.6		100	80-120		
Magnesium	5.78	mg/L		5.556		104	80-120		
Mercury	52.3	ug/L		55.56		94	80-120		
Molybdenum	521	ug/L		555.6		94	80-120		
Potassium	5.73	mg/L		5.556		103	80-120		
Selenium	566	ug/L		555.6		102	80-120		
Sodium	5.40	mg/L		5.556		97	80-120		
Thallium	528	ug/L		555.6		95	80-120		
<b><u>Batch B342504 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B342504-DUP3)</b>				Sample: GH04553-01		Prepared & Analyzed: 08/29/23			
Alkalinity - bicarbonate as CaCO3	775	mg/L			762			2	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
<b>Duplicate (B342504-DUP5)</b>				Sample: GH04842-01		Prepared & Analyzed: 08/29/23			
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	888	mg/L			838			6	10
<b><u>Batch B342591 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B342591-MS1)</b>				Sample: GH05495-01		Prepared & Analyzed: 08/29/23			
Chloride	< 1.0	mg/L	Q4	1.500	83	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	240	NR	80-120		
<b>Matrix Spike Dup (B342591-MSD1)</b>				Sample: GH05495-01		Prepared & Analyzed: 08/29/23			
Chloride	< 1.0	mg/L	Q4	1.500	83	NR	80-120		20
Sulfate	1.00E9	mg/L	Q4	1.500	240	NR	80-120	0	20
<b><u>Batch B342596 - No Prep - SM 2540C</u></b>									
<b>Blank (B342596-BLK1)</b>				Prepared & Analyzed: 08/30/23					

### QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Blank (B342596-BLK1)</b>				Prepared & Analyzed: 08/30/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B342596-BS1)</b>				Prepared & Analyzed: 08/30/23					
Solids - total dissolved solids (TDS)	1020	mg/L		1000		102	84.9-109		
<b>Duplicate (B342596-DUP1)</b>				Sample: GH05495-01		Prepared & Analyzed: 08/30/23			
Solids - total dissolved solids (TDS)	905	mg/L			875			3	5
<b><u>Batch B342610 - No Prep - SM 4500F C 1997</u></b>									
<b>Matrix Spike (B342610-MS1)</b>				Sample: GH04553-01		Prepared & Analyzed: 08/30/23			
Fluoride	1.29	mg/L		1.000	0.280	101	80-120		
<b>Matrix Spike (B342610-MS2)</b>				Sample: GH04842-04		Prepared & Analyzed: 08/30/23			
Fluoride	1.09	mg/L		1.000	0.0820	101	80-120		
<b>Matrix Spike Dup (B342610-MSD1)</b>				Sample: GH04553-01		Prepared & Analyzed: 08/30/23			
Fluoride	1.32	mg/L		1.000	0.280	104	80-120	2	20
<b>Matrix Spike Dup (B342610-MSD2)</b>				Sample: GH04842-04		Prepared & Analyzed: 08/30/23			
Fluoride	1.09	mg/L		1.000	0.0820	101	80-120	0.5	20
<b><u>Batch B342684 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B342684-BLK1)</b>				Prepared: 08/31/23 Analyzed: 09/06/23					
Lithium	< 20	ug/L							
<b>LCS (B342684-BS1)</b>				Prepared: 08/31/23 Analyzed: 09/06/23					
Lithium	526	ug/L		555.6		95	80-120		
<b>Matrix Spike (B342684-MS1)</b>				Sample: GH05495-01		Prepared: 08/31/23 Analyzed: 09/06/23			
Lithium	512	ug/L		555.6	6.12	91	75-125		
<b>Matrix Spike Dup (B342684-MSD1)</b>				Sample: GH05495-01		Prepared: 08/31/23 Analyzed: 09/06/23			
Lithium	514	ug/L		555.6	6.12	91	75-125	0.4	20
<b><u>Batch B342684 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B342684-BLK1)</b>				Prepared: 08/31/23 Analyzed: 09/06/23					
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							
<b>LCS (B342684-BS1)</b>				Prepared: 08/31/23 Analyzed: 09/06/23					
Antimony	560	ug/L		555.6		101	80-120		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS (B342684-BS1)</b>				Prepared: 08/31/23 Analyzed: 09/06/23					
Arsenic	547	ug/L		555.6		98	80-120		
Barium	545	ug/L		555.6		98	80-120		
Beryllium	541	ug/L		555.6		97	80-120		
Boron	534	ug/L		555.6		96	80-120		
Cadmium	536	ug/L		555.6		97	80-120		
Calcium	5.40	mg/L		5.556		97	80-120		
Chromium	547	ug/L		555.6		99	80-120		
Cobalt	545	ug/L		555.6		98	80-120		
Lead	564	ug/L		555.6		102	80-120		
Magnesium	5.44	mg/L		5.556		98	80-120		
Mercury	51.5	ug/L		55.56		93	80-120		
Molybdenum	535	ug/L		555.6		96	80-120		
Potassium	5.46	mg/L		5.556		98	80-120		
Selenium	555	ug/L		555.6		100	80-120		
Sodium	5.38	mg/L		5.556		97	80-120		
Thallium	544	ug/L		555.6		98	80-120		
<b>Matrix Spike (B342684-MS1)</b>				Sample: GH05495-01		Prepared: 08/31/23 Analyzed: 09/06/23			
Antimony	548	ug/L		555.6	ND	99	75-125		
Arsenic	541	ug/L		555.6	ND	97	75-125		
Barium	603	ug/L		555.6	72.6	96	75-125		
Beryllium	534	ug/L		555.6	ND	96	75-125		
Boron	9940	ug/L		555.6	9390	99	75-125		
Cadmium	527	ug/L		555.6	1.27	95	75-125		
Calcium	160	mg/L	Q4	5.556	157	54	75-125		
Chromium	531	ug/L		555.6	ND	96	75-125		
Cobalt	525	ug/L		555.6	2.92	94	75-125		
Lead	542	ug/L		555.6	0.900	97	75-125		
Magnesium	60.3	mg/L	Q4	5.556	56.7	66	75-125		
Mercury	51.8	ug/L		55.56	ND	93	75-125		
Molybdenum	536	ug/L		555.6	1.06	96	75-125		
Potassium	6.08	mg/L		5.556	0.592	99	75-125		
Selenium	543	ug/L		555.6	ND	98	75-125		
Sodium	63.3	mg/L		5.556	59.0	76	75-125		
Thallium	528	ug/L		555.6	ND	95	75-125		
<b>Matrix Spike Dup (B342684-MSD1)</b>				Sample: GH05495-01		Prepared: 08/31/23 Analyzed: 09/06/23			
Antimony	547	ug/L		555.6	ND	99	75-125	0.08	20
Arsenic	554	ug/L		555.6	ND	100	75-125	2	20
Barium	622	ug/L		555.6	72.6	99	75-125	3	20
Beryllium	550	ug/L		555.6	ND	99	75-125	3	20
Boron	10300	ug/L	Q2	555.6	9390	157	75-125	3	20
Cadmium	542	ug/L		555.6	1.27	97	75-125	3	20
Calcium	161	mg/L	Q4	5.556	157	71	75-125	0.6	20
Chromium	548	ug/L		555.6	ND	99	75-125	3	20
Cobalt	538	ug/L		555.6	2.92	96	75-125	2	20
Lead	556	ug/L		555.6	0.900	100	75-125	3	20
Magnesium	60.9	mg/L		5.556	56.7	76	75-125	0.9	20
Mercury	52.6	ug/L		55.56	ND	95	75-125	2	20



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike Dup (B342684-MSD1)</b>									
			Sample: GH05495-01		Prepared: 08/31/23 Analyzed: 09/06/23				
Molybdenum	547	ug/L		555.6	1.06	98	75-125	2	20
Potassium	6.02	mg/L		5.556	0.592	98	75-125	1	20
Selenium	558	ug/L		555.6	ND	100	75-125	3	20
Sodium	63.5	mg/L		5.556	59.0	80	75-125	0.3	20
Thallium	540	ug/L		555.6	ND	97	75-125	2	20
<b><u>Batch B342872 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B342872-DUP1)</b>									
			Sample: GH05495-01		Prepared & Analyzed: 09/02/23				
Alkalinity - bicarbonate as CaCO3	362	mg/L			362			0	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				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

- B2 Contamination does not impact data since sample result is greater than ten times the contamination level found in the blank.
- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q1 Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q2 Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- 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



WELL/SAMPLE POINT APW-01

Purge Method: Port-BLK PUMP

Date: 8-23-23 Start Time: 13:15 Finish/Sample Time: 14:42

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Depth to Water From MP: 06.23 ft  
 Water Column Length: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L

Min. Purge Volume: 1.5 Gal / L  
 Total Purge Volume: 1.8 Gal / L  
 Max Drawdown: NA 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	13:40	06.40	100	6.51	1,230	25.63	-78	2.96	18.9
2	13:41	06.42	100	6.49	1,230	25.50	-80	2.86	17.0
3	13:42	06.41	100	6.50	1,250	25.56	-83	2.79	16.9
4	<del>_____</del>								
5	<del>_____</del>								
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	2.5 L HNO3
1	500 mL H2SO4

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

Ferrous Iron average mg/L

Comments: NA

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-20

Purge Method: Dedicated Pump

Date: 8-22-23 Start Time: 13:10 Finish/Sample Time: 14:34

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Depth to Water From MP: 16.87 ft  
 Water Column Length: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L

Min. Purge Volume: 1.5 Gal / L  
 Total Purge Volume: 1.8 Gal / L  
 Max Drawdown: NA 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	13:30	17.36	100	6.26	1,320	17.41	-59	0.62	17.3
2	13:31	17.41	100	6.25	1,320	17.48	-59	0.56	19.0
3	13:32	17.34	100	6.24	1,310	17.39	-60	0.54	18.6
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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	2.5 L HNO3
1	500mL ZNCA

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

Ferrous Iron 5.679 mg/L

Comments FD - 17.31

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-23

Purge Method: portable pump with medical tubing

Date: 8/23/23 Start Time: 0920 Finish/Sample Time: 1044

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Depth to Water From MP: 4.36 ft  
 Total Purge Volume: 1500 Gal / L  
 Water Column Length: \_\_\_\_\_ ft  
 Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L  
 Total Drawdown: 0.24 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	0940	4.60	100	6.82	1260	21.10	-34	0.49	152
2	0942	4.60	100	6.82	1250	21.12	-34	0.44	134
3	0944	4.60	100	6.82	1260	21.20	-34	0.44	133
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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, 500mL NaOH & ZnAC)
1	(P, 250 mL, HNO3)

15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000mL
3	TOC (A, V, 40mL, H2SO4)

Ferrous Iron 0.464 mg/L

Comments Final DTW 3.60

Sampler's Signature: \_\_\_\_\_

**ATTORNEY-CLIENT PRIVILEGED AND CONFIDENTIAL**  
**EDWARDS EMW**

WELL EMW-05 Purge Method: Dedicated pump  
 Date: 8/28/23 Start Time: 1141 Finish/Sample Time: 1320  
 Well Depth (Bottom) From MP: Pump ft Min. Purge Volume: 1.0 Gal/10  
 Depth to Water From MP: 20.84 ft Total Purge Volume: 1.3 Gal/10  
 Water Column Length: — ft Max Drawdown: — ft  
 Well Water Volume: — Gal/L Total Drawdown: 7.31 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	1215	22.47	100	6.84	1340	19.51	45	1.20	80.1
2	1217	22.70	100	6.84	1340	19.45	48	1.13	73.8
3	1218	22.85	100	6.82	1340	19.39	52	1.05	70.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	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)
1	2.5L HNO3

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

Ferrous Iron 0.066 mg/L

Comments Final DTW = 28.15'

Sampler's Signature: [Signature]

### Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Kyle Lane</i>				Location: <i>EDWARD Power</i>					
Weather: <i>84° to 93° sunny</i>				Environment: <i>dry</i>					
Multiparameter Water Meter		Make: <i>Hanba</i>	Model: <i>V-500</i>	Serial Number: <i>PW264J03</i>					
Water Level Meter		Make: <i>Heron</i>	Model: <i>water table</i>	Serial Number: <i>19FF220213/ML</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.95</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2040</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	<i>NA</i>	Geotech	3GA1071	Jan-24
ORP	<i>2.14</i>	mV	±15 mV	<i>P</i>	<i>NA</i>	<i>NA</i>	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.01</i>	mg/L	±0.1	<i>P</i>	<i>NA</i>	<i>NA</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.00</i>	%	97-100%	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.40</i>	NTU	<2 NTU	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <i>16:40</i>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>3.94</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GE870	May-24
pH 7.00b	<i>7.01</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GF113	Jun-24
pH 10.00b	<i>10.03</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GE820	May-24
SC 1000	<i>10.32</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	Ricca	4209A12	Aug-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>NA</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023051-02	2/21/2025
pH 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-23
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)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>16:35</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<i>4.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023067-01	3/14/2025
7.00a	<i>6.94</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023051-02	2/21/2025
10.00a	<i>9.95</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	022361-01	12/27/2024
SC 1000	<i>10.10</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	<i>NA</i>	Ricca	4209A12	Aug-23
DO (Zero pt)	<i>0.01</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>NA</i>	<i>NA</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0</i>	NTU	<2 NTU	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)

Comments: *NA*

Signature: <i>[Signature]</i>	Date: <i>8-21-2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Pemberton</i>		Location: <i>E &amp; Wards power station</i>	
Weather: <i>840-900h Wind Partly cloudy NE 7mph</i>		Environment: <i>grass, gravel D: 16</i>	
Multiparameter Water Meter	Make: <i>Hanna</i>	Model: <i>US000</i>	Serial Number: <i>U4U1F7VE</i>
Water Level Meter	Make: <i>Hanna</i>	Model: <i>D: 000-7</i>	Serial Number: <i>3717-T</i>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.01</i>	s.u.	±0.1 s.u.	P	NO	-	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.75</i>	s.u.	±0.1 s.u.	P	YES	7.00	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.02</i>	s.u.	±0.1 s.u.	P	NO	-	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2000</i>	µS/cm	±5%	P	-	-	Geotech	3GA1071	Jan-24
ORP	<i>226</i>	mV	±15 mV	P	-	-	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	P	-	-	Macron	#000228049	8/26/2025
DO (Saturated)	<i>18.77</i>	%	97-100%	P	-	-	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	-	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>1148</i>	<i>224 @ 29°C</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.02</i>	s.u.	±0.15 s.u.	P	-	Geotech	2GE870	May-24	
pH 7.00b	<i>6.86</i>	s.u.	±0.15 s.u.	P	-	Geotech	2GF113	Jun-24	
pH 10.00b	<i>10.05</i>	s.u.	±0.15 s.u.	P	-	Geotech	2GE820	May-24	
SC 1000	<i>1000</i>	µS/cm	±5%	P	-	Ricca	4209A12	Aug-23	

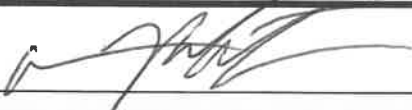
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
pH 7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
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)

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-23
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: *only one well samples*

Signature:		Date:	<i>8/21/2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Membrin</i>				Location: <i>Edwards power station</i>			
Weather: <i>73°-92° sunny wind NE SmpH</i>				Environment: <i>grass, gravel, dirt</i>			
Multiparameter Water Meter		Make: <i>Horiuba</i>	Model: <i>V5000</i>	Serial Number: <i>0401FTVF</i>			
Water Level Meter		Make: <i>Heron</i>	Model: <i>D:pa-T</i>	Serial Number: <i>3717-T</i>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.92</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.64</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1960</i>	µS/cm	±5%	P	NO	N/A	Geotech	3GA1071	Jan-24
ORP	<i>236</i>	mV	±15 mV	P	NO	N/A	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	<i>113.3</i>	%	97-100%	P	YES	100.0	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

*229 @ 25°C*

ICV (Initial Calibration Verification)						Time: <i>0845</i>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.04</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	May-24
pH 7.00b	<i>6.88</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GF113	Jun-24
pH 10.00b	<i>9.99</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24
SC 1000	<i>994</i>	µS/cm	±5%	P	N/A	Ricca	4209A12	Aug-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>1600</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.97</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.24</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC 1000	<i>998</i>	µS/cm	±5%	P	NO	N/A	Ricca	4209A12	Aug-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	N/A	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-23
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: <i>[Signature]</i>	Date: <i>8/22/2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Kyle Larr</b>				Location: <b>Edward Power</b>					
Weather: <b>90° Sunny</b>				Environment: <b>DM</b>					
Multiparameter Water Meter		Make: <b>HANNA</b>	Model: <b>V-5000</b>	Serial Number: <b>PW264JD3</b>					
Water Level Meter		Make: <b>HANNA</b>	Model: <b>water tape</b>	Serial Number: <b>19FF220213ML</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.37	s.u.	±0.1 s.u.	F	9/5	4.00	MSI	023067-01	3/14/2025
pH 7.00a	8.93	s.u.	±0.1 s.u.	P	NA	NA	MSI	023051-02	2/21/2025
pH 10.00a	9.97	s.u.	±0.1 s.u.	P	NA	NA	MSI	022361-01	12/27/2024
SC Zero (DI)	0.20	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1.970	µS/cm	±5%	P	NA	NA	Geotech	3GA1071	Jan-24
ORP	2.12	mV	±15 mV	P	NA	NA	InSitu	3GD927	Jan-24
DO (Zero pt)	0.08	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	97.50	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.9	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)						Time: <b>08:40</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	NA		Geotech	2GE870	May-24
pH 7.00b	7.04	s.u.	±0.15 s.u.	P	NA		Geotech	2GF113	Jun-24
pH 10.00b	10.09	s.u.	±0.15 s.u.	P	NA		Geotech	2GE820	May-24
SC 1000	9.90	µS/cm	±5%	P	NA		Ricca	4209A12	Aug-23
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time: <b>NA</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023067-01	3/14/2025
pH 7.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023051-02	2/21/2025
pH 10.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	022361-01	12/27/2024
SC 1000	/	µS/cm	±5%	/	/	/	Ricca	4209A12	Aug-23
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)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time: <b>1A:20</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.02	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025
7.00a	7.05	s.u.	±0.1 s.u.	P	NA	NA	MSI	023051-02	2/21/2025
10.00a	9.99	s.u.	±0.1 s.u.	P	NA	NA	MSI	022361-01	12/27/2024
SC 1000	10.40	µS/cm	±5%	P	NA	NA	Ricca	4209A12	Aug-23
DO (Zero pt)	0.01	mg/L	±0.1 mg/L	P	NA	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Comments: <b>NA</b>									
Signature: <b>[Signature]</b>				Date: <b>8-22-2023</b>					

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Kimberlin</i>				Location: <i>Edwards</i>			
Weather: <i>82°-97° Sunny Wind SW 7mph</i>				Environment: <i>grass, gravel, dirt</i>			
Multiparameter Water Meter		Make: <i>Hori: 6a</i>	Model: <i>V5000</i>	Serial Number: <i>U4U1FTVF</i>			
Water Level Meter		Make: <i>Heron</i>	Model: <i>D-0057</i>	Serial Number: <i>3717-7</i>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<i>7.00</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.94</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2010</i>	µS/cm	±5%	P	NO	N/A	Geotech	3GA1071	Jan-24
ORP	<i>222</i>	mV	±15 mV	P	NO	N/A	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	<i>87.6</i>	%	97-100%	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>0843</i>		<i>226 @ 27°C</i>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>4.00</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	May-24	
pH 7.00b	<i>6.91</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GF113	Jun-24	
pH 10.00b	<i>10.07</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24	
SC 1000	<i>990</i>	µS/cm	±5%	P	N/A	Ricca	4209A12	Aug-23	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1600</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.07</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<i>7.06</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.10</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC 1000	<i>989</i>	µS/cm	±5%	P	NO	N/A	Ricca	4209A12	Aug-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	N/A	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-23
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: 	Date: <i>8/23/23</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>KYU LAM</i>				Location: <i>EDWARDS POWER</i>					
Weather: <i>90° Sunny</i>				Environment: <i>DRY</i>					
Multiparameter Water Meter		Make: <i>HORIBA</i>	Model: <i>V-5000</i>	Serial Number: <i>PW264303</i>					
Water Level Meter		Make: <i>HERON</i>	Model: <i>WATER TO PL</i>	Serial Number: <i>19FF220213ML</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>NA</i>	<i>NA</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.91</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.99</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.00</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1980</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	<i>NA</i>	Geotech	3GA1071	Jan-24
ORP	<i>210</i>	mV	±15 mV	<i>P</i>	<i>NA</i>	<i>NA</i>	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.03</i>	mg/L	±0.1	<i>P</i>	<i>NA</i>	<i>NA</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>97.00</i>	%	97-100%	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.6</i>	NTU	<2 NTU	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:			
						<i>08:40</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>4.10</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GE870	May-24	
pH 7.00b	<i>6.88</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GF113	Jun-24	
pH 10.00b	<i>10.05</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GE820	May-24	
SC 1000	<i>970</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	Ricca	4209A12	Aug-23	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
						<i>NA</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023051-02	2/21/2025
pH 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-23
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)

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	<i>4.26</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023067-01	3/14/2025
7.00a	<i>7.08</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023051-02	2/21/2025
10.00a	<i>9.98</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	022361-01	12/27/2024
SC 1000	<i>1018</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	<i>NA</i>	Ricca	4209A12	Aug-23
DO (Zero pt)	<i>0.04</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>NA</i>	<i>NA</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.8</i>	NTU	<2 NTU	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <i>[Signature]</i>	Date: <i>8-23-2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>JD</u>				Location: <u>Vista Edwards</u>					
Weather: <u>71-81°F sunny wind NE 7-8 mph</u>				Environment: <u>grass, road</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>U-5000</u>	Serial Number: <u>YL9KJ9HA</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dipper-T</u>	Serial Number: <u>11FF22093054L</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>pass</u>	<u>No</u>	<u>NA</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>6.54</u>	s.u.	±0.1 s.u.	<u>fail</u>	<u>yes</u>	<u>7.00</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	<u>pass</u>	<u>No</u>	<u>NA</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>20</u>	µS/cm	0<25 µS/cm	<u>↓</u>	<u>↓</u>	<u>↓</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1970</u>	µS/cm	±5%	<u>↓</u>	<u>↓</u>	<u>↓</u>	Geotech	3GA1071	Jan-24
ORP	<u>124</u>	mV	±15 mV	<u>fail</u>	<u>yes</u>	<u>230</u>	InSitu	3GD927	Jan-24
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1	<u>pass</u>	<u>No</u>	<u>NA</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>97.7</u>	%	97-100%	<u>↓</u>	<u>↓</u>	<u>↓</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>1.2</u>	NTU	<2 NTU	<u>↓</u>	<u>↓</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>0930</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	<u>3.89</u>	s.u.	±0.15 s.u.	<u>pass</u>	<u>NA</u>		Geotech	2GE870	May-24
pH 7.00b	<u>6.93</u>	s.u.	±0.15 s.u.	<u>↓</u>	<u>↓</u>		Geotech	2GF113	Jun-24
pH 10.00b	<u>9.95</u>	s.u.	±0.15 s.u.	<u>↓</u>	<u>↓</u>		Geotech	2GE820	May-24
SC 1000	<u>954</u>	µS/cm	±5%	<u>↓</u>	<u>↓</u>		Ricca	4209A12	Aug-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):				Time: <u>8/28</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>pass</u>	<u>No</u>	<u>NA</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.09</u>	s.u.	±0.1 s.u.	<u>↓</u>	<u>↓</u>	<u>↓</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>↓</u>	<u>↓</u>	<u>↓</u>	MSI	022361-01	12/27/2024
SC 1000	<u>1030</u>	µS/cm	±5%	<u>↓</u>	<u>↓</u>	<u>↓</u>	Ricca	4209A12	Aug-23
DO (Zero pt)	<u>0.10</u>	mg/L	±0.1 mg/L	<u>↓</u>	<u>↓</u>	<u>↓</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.8</u>	NTU	<2 NTU	<u>↓</u>	<u>↓</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-23
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>8/28/23</u>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Aaron Plemberlan</b>		Location: <b>Edwards power station</b>	
Weather: <b>65°-81° Sunny wind NE 4MP</b>		Environment: <b>grass, gravel, dirt</b>	
Multiparameter Water Meter	Make: <b>Horiba</b>	Model: <b>JS008</b>	Serial Number: <b>PW26YJ D3</b>
Water Level Meter	Make: <b>Heron</b>	Model: <b>Differ 7</b>	Serial Number: <b>3717-T</b>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.01</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<b>7.00</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<b>9.98</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC Zero (DI)	<b>0.0</b>	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1990</b>	µS/cm	±5%	P	NO	N/A	Geotech	3GA1071	Jan-24
ORP	<b>233</b>	mV	±15 mV	P	NO	N/A	InSitu	3GD927	Jan-24
DO (Zero pt)	<b>0.09</b>	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	<b>9.97</b>	%	97-100%	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>2.0</b>	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:					
					<b>0924</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	<b>3.91</b>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	May-24		
pH 7.00b	<b>7.00</b>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GF113	Jun-24		
pH 10.00b	<b>10.00</b>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24		
SC 1000	<b>978</b>	µS/cm	±5%	P	N/A	Ricca	4209A12	Aug-23		

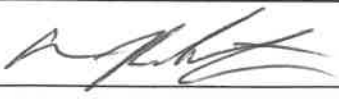
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:					
					<b>1617</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	<b>4.06</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025	
pH 7.00a	<b>7.02</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025	
pH 10.00a	<b>10.04</b>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024	
SC 1000	<b>988</b>	µS/cm	±5%	P	NO	N/A	Ricca	4209A12	Aug-23	
DO (Zero pt)	<b>0.09</b>	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025	
Turbidity (DI)	<b>0.0</b>	NTU	<2 NTU	P	NO	N/A	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-23	
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: 	Date: <b>8/28 /2023</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Joe Reed</u>		Location: <u>Edwards Power</u>							
Weather:		Environment:							
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>V5000</u>	Serial Number: <u>Y29KJ9HA</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>1900</u>	Serial Number: <u>19FF211192HB</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	↘	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	023051-02	2/21/2025
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	022361-01	12/27/2024
SC Zero (DI)	<u>1.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1990</u>	µS/cm	±5%	<u>P</u>	<u>N</u>		Geotech	3GA1071	Jan-24
ORP	<u>240</u>	mV	±15 mV	<u>P</u>	<u>N</u>		InSitu	3GD927	Jan-24
DO (Zero pt)	<u>0.05</u>	mg/L	±0.1	<u>P</u>	<u>N</u>		Macron	#000228049	8/26/2025
DO (Saturated)	<u>97.9</u>	%	97-100%	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.1</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: <u>925</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.00</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE870	May-24	
pH 7.00b	<u>6.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GF113	Jun-24	
pH 10.00b	<u>9.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE820	May-24	
SC 1000	<u>1000</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4209A12	Aug-23	
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.
pH 4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
pH 7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
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)
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-23
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>Joseph R Reed</u>		Date: <u>8/29/23</u>							





GH04553  
Vmw 8-22-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 2 of 2	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</b>	
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		UST    RCRA    OTHER	Site Location STATE: <b>IL</b>
Phone: (217) 753-8911    Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX    CODE DRINKING WATER    DW WATER    WT WASTE WATER    WW PRODUCT    P SOL/SOLID    SL OIL    OL 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 ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301			
1	AW-19		WT	G	8/22/23	1257	16	X	X	X														
2	AW-20		WT	G	8/22/23	1434	15	X	X	X														
3	AW-21		WT	G	8/23/23	1604	15	X	X	X														
4	AW-23																							
5	EMW-05																							
6	SG-01																							
7	SG-02																							
8	SG-03																							
9	XPW01A																							
10	XPW02		WT	G	8/22/23	1557	15	X	X	X														
11	XPW03																							
12	Field Blank		WT	G	8/22/23	1111	15	X	X	X														
13	AW01 Dup		WT	G	8/22/23	1428	15	X	X	X														
14																								
15																								
16																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
<b>EDW-23Q3-Rev 0</b>	<i>[Signature]</i>	8/22/23	1640	<i>[Signature]</i>	8-22-23	1640	18.2	Y	N	Y			

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>Aaron Remberton</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/22/23		

G1101842  
VMW 8-23-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <u>Vistra Corp</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		NPDES    GROUND WATER    DRINKING WATER		
Address: <u>13498 E. 900th St</u>		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>		UST    RCRA    OTHER		
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Address: <u>see Section A</u>		Site Location		
Phone: (217) 753-8911    Fax:		Project Name:		Quote Reference:		STATE: <u>IL</u>		
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Project Manager:		Profile #:		

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (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 Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
		MATRIX	CODE			DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other				
		DRINKING WATER	DW																		
1	AP05S	WT	G	8/23/23	1304	15	X	X	X												
2	AP07S																				
3	APW-01	WT	G	8/23/23	1442	16	X	X	Y												
4	AW-01																				
5	AW-05																				
6	AW-06																				
7	AW-08																				
8	AW-09																				
9	AW-10																				
10	AW-11																				
11	AW-14	WT	G	8/23/23	1553	15	X	X	X												
12	AW-15	WT	G	8/23/23	1255	15	X	X	X												
13	AW-15S	WT	G	8/23/23	1425	16	X	X	X												
14	AW-16																				
15	AW-17																				
16	AW-18																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
EDW-23Q3-Rev 0	<i>[Signature]</i>	8/23/23	1634	<i>[Signature]</i>	8-23-23	1634	11.7	Y	N	Y	
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: <u>Aaron Remington</u>											
SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DDYY): <u>08/23/23</u>											

GH04842  
 JMW 8-23-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		NPDES    GROUND WATER    DRINKING WATER		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		UST    RCRA    OTHER		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		Site Location		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		STATE: <b>IL</b>		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Profile #:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX    CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.			
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	EDW-257-301	EDW-845-301	EDW-SUP-000			EDW-CAP-301		
1	AW-19																								
2	AW-20																								
3	AW-21																								
4	AW-23		WT	G	8/23/23	1044		15	X	X	X														
5	EMW-05																								
6	SG-01																								
7	SG-02																								
8	SG-03																								
9	XPW01A																								
10	XPW02																								
11	XPW03																								
12	Field Blank																								
13	EB01		WT	G	8/23/23	1600		15	X	X	X														
14																									
15																									
16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<b>EDW-23Q3-Rev 0</b>	<i>[Signature]</i>	8/23/23	1634	<i>[Signature]</i>	8-23-23	1634	11.7	Y	N	Y

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>Aaron Pemberton</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/23/23		

GH05495  
VMW 8-29-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b> NPDES    GROUND WATER    DRINKING WATER UST        RCRA                    OTHER  Site Location:                    IL STATE:		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>				
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>				
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>				
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:				
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:				
				Profile #:				

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX    CODE DRINKING WATER    DW WATER                    WT WASTE WATER        WW PRODUCT                P SOIL/SOLID            SL OIL                        OL WIFE                    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 ↓ Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No / Lab I.D.
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301		
1	AP05S																						
2	AP07S		WT 6		8/28/23	1047	15	X	X	X													
3	APW-01																						
4	AW-01																						
5	AW-05		WT 6		8/28/23	1449	15	X	X	X													
6	AW-06		WT 6		8/28/23	1610	15	X	X	X													
7	AW-08		WT 6		8/28/23	1440	15	X	X	X													
8	AW-09																						
9	AW-10		WT 6		8/28/23	1304	15	X	X	X													
10	AW-11		WT 6		8/28/23	1110	15	X	X	X													
11	AW-14																						
12	AW-15																						
13	AW-15S																						
14	AW-16																						
15	AW-17																						
16	AW-18																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<b>EDW-23Q3-Rev 0</b>	<i>[Signature]</i>	08/28/23	1701	<i>[Signature]</i>	8-29-23	700	2.9	Y	N	Y	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Arron Remaker</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/28/23		

GH05495  
VMW 8-29-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<table border="1"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> <tr> <td colspan="2">Site Location</td> <td>IL</td> </tr> <tr> <td colspan="2">STATE:</td> <td></td> </tr> </table>			REGULATORY AGENCY			NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER	Site Location		IL	STATE:		
REGULATORY AGENCY																							
NPDES	GROUND WATER	DRINKING WATER																					
UST	RCRA	OTHER																					
Site Location		IL																					
STATE:																							
Company: <b>Vistra Corp</b>	Report To: <b>Brian Voelker</b>	Attention: <b>Jason Stuckey</b>	Company Name: <b>Vistra Corp</b>																				
Address: <b>13498 E. 900th St</b>	Copy To: <b>Jason Stuckey</b>	Address: <b>see Section A</b>																					
Email To: <b>Brian.Voelker@VistraCorp.com</b>	Purchase Order No.:	Quote Reference:																					
Phone: <b>(217) 753-8911</b> Fax:	Project Name:	Project Manager:																					
Requested Due Date/TAT: <b>10 day</b>	Project Number: <b>2285</b>	Profile #:																					

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N ↓ Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.		
								Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	EDW-257-301	EDW-845-301		EDW-SUP-000	EDW-CAP-301	Requested Analysis Filtered (Y/N)					
1	AW-19																									
2	AW-20																									
3	AW-21																									
4	AW-23																									
5	EMW-05			WT 6	8/28/23	1320	15	X	X	X																
6	SG-01																									
7	SG-02																									
8	SG-03																									
9	XPW01A																									
10	XPW02																									
11	XPW03			WT 6	8/28/23	1616	15	X	X	X																
12	Field Blank																									
13	EB02			WT 6	8/28/23	1625	15	X	X	X																
14																										
15																										
16																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>[Signature]</i>	08/28/23	1701	<i>[Signature]</i>	8/29/23	700	2.9	Y	N	Y

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>Jason Stuckey</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY): 08/28/23			





**ATTACHMENT C  
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND  
QUARTER 3, 2023**



**ATTACHMENT C.**  
**COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023**  
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	E002	Antimony, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.003	0.003
AP07S	PMP	E002	Arsenic, total	mg/L	02/10/21 - 08/28/23	11	82	CI around median	0.001	0.0300
AP07S	PMP	E002	Barium, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	0.0778	2.07
AP07S	PMP	E002	Beryllium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.001	0.00190
AP07S	PMP	E002	Boron, total	mg/L	02/10/21 - 08/28/23	11	0	CB around linear reg	6.34	0.535
AP07S	PMP	E002	Cadmium, total	mg/L	02/10/21 - 08/28/23	11	82	CI around median	0.001	0.00100
AP07S	PMP	E002	Chloride, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	73.7	56.0
AP07S	PMP	E002	Chromium, total	mg/L	02/10/21 - 08/28/23	11	64	CI around median	0.004	0.0480
AP07S	PMP	E002	Cobalt, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	0.00235	0.0280
AP07S	PMP	E002	Fluoride, total	mg/L	02/10/21 - 08/28/23	11	73	CB around T-S line	-1.69	0.396
AP07S	PMP	E002	Lead, total	mg/L	02/10/21 - 08/28/23	11	54	CI around median	0.001	0.0330
AP07S	PMP	E002	Lithium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.02	0.0710
AP07S	PMP	E002	Mercury, total	mg/L	02/10/21 - 08/28/23	11	91	CI around median	0.0002	0.0002
AP07S	PMP	E002	Molybdenum, total	mg/L	02/10/21 - 08/28/23	11	46	CI around median	0.001	0.00620
AP07S	PMP	E002	pH (field)	SU	02/10/21 - 08/28/23	11	0	CI around mean	6.5/6.9	6.3/7.1
AP07S	PMP	E002	Radium 226 + Radium 228, total	pCi/L	02/10/21 - 08/28/23	11	0	CI around mean	0.535	9.60
AP07S	PMP	E002	Selenium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.001	0.00320
AP07S	PMP	E002	Sulfate, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	204	6.48
AP07S	PMP	E002	Thallium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.001	0.001
AP07S	PMP	E002	Total Dissolved Solids	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	783	1,050
AW-01	PMP	E002	Antimony, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.003	0.003
AW-01	PMP	E002	Arsenic, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	-0.000517	0.0300
AW-01	PMP	E002	Barium, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	0.101	2.07
AW-01	PMP	E002	Beryllium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.001	0.00190
AW-01	PMP	E002	Boron, total	mg/L	11/18/22 - 08/22/23	6	0	CI around median (Last Sample, n<7)	0.092	0.535
AW-01	PMP	E002	Cadmium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.001	0.00100
AW-01	PMP	E002	Chloride, total	mg/L	11/18/22 - 08/22/23	6	0	CI around median (Last Sample, n<7)	12	56.0

**ATTACHMENT C.**  
**COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023**  
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	E002	Chromium, total	mg/L	11/18/22 - 08/22/23	6	83	CI around median (Last Sample, n<7)	0.004	0.0480
AW-01	PMP	E002	Cobalt, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	0.0025	0.0280
AW-01	PMP	E002	Fluoride, total	mg/L	11/18/22 - 08/22/23	6	50	CI around mean	0.245	0.396
AW-01	PMP	E002	Lead, total	mg/L	11/18/22 - 08/22/23	6	83	CI around median (Last Sample, n<7)	0.001	0.0330
AW-01	PMP	E002	Lithium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.02	0.0710
AW-01	PMP	E002	Mercury, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.0002	0.0002
AW-01	PMP	E002	Molybdenum, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	0.00212	0.00620
AW-01	PMP	E002	pH (field)	SU	11/18/22 - 08/22/23	6	0	CI around mean	6.6/7.2	6.3/7.1
AW-01	PMP	E002	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 08/22/23	6	0	CI around mean	-0.466	9.60
AW-01	PMP	E002	Selenium, total	mg/L	11/18/22 - 08/22/23	6	83	CI around median (Last Sample, n<7)	0.001	0.00320
AW-01	PMP	E002	Sulfate, total	mg/L	11/18/22 - 08/22/23	6	0	CI around median (Last Sample, n<7)	52	6.48
AW-01	PMP	E002	Thallium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.001	0.001
AW-01	PMP	E002	Total Dissolved Solids	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	708	1,050
AW-05	UA	E002	Antimony, total	mg/L	11/09/15 - 08/28/23	15	93	Most recent sample	0.003	0.003
AW-05	UA	E002	Arsenic, total	mg/L	11/09/15 - 08/28/23	15	0	CI around geomean	0.00393	0.0300
AW-05	UA	E002	Barium, total	mg/L	11/09/15 - 08/28/23	15	0	CI around mean	0.142	2.07
AW-05	UA	E002	Beryllium, total	mg/L	11/09/15 - 08/28/23	14	86	CI around median	0.001	0.00190
AW-05	UA	E002	Boron, total	mg/L	11/09/15 - 08/28/23	16	0	CB around T-S line	2.16	0.535
AW-05	UA	E002	Cadmium, total	mg/L	11/09/15 - 08/28/23	15	87	CI around median	0.001	0.00100
AW-05	UA	E002	Chloride, total	mg/L	11/09/15 - 08/28/23	16	0	CB around linear reg	-173	56.0
AW-05	UA	E002	Chromium, total	mg/L	11/09/15 - 08/28/23	15	33	CI around geomean	0.00583	0.0480
AW-05	UA	E002	Cobalt, total	mg/L	11/09/15 - 08/28/23	15	20	CI around geomean	0.00348	0.0280
AW-05	UA	E002	Fluoride, total	mg/L	11/09/15 - 08/28/23	16	50	CI around median	0.25	0.396
AW-05	UA	E002	Lead, total	mg/L	11/09/15 - 08/28/23	14	36	CI around geomean	0.00168	0.0330
AW-05	UA	E002	Lithium, total	mg/L	11/09/15 - 08/28/23	15	27	CI around geomean	0.0212	0.0710
AW-05	UA	E002	Mercury, total	mg/L	11/09/15 - 08/28/23	15	93	CI around median	0.0002	0.0002
AW-05	UA	E002	Molybdenum, total	mg/L	11/09/15 - 08/28/23	15	0	CI around mean	0.00206	0.00620

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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	Background
AW-05	UA	E002	pH (field)	SU	11/09/15 - 08/28/23	16	0	CI around mean	6.9/7.1	6.3/7.1
AW-05	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 08/28/23	15	0	CI around mean	0.673	9.60
AW-05	UA	E002	Selenium, total	mg/L	11/09/15 - 08/28/23	15	47	CI around median	0.001	0.00320
AW-05	UA	E002	Sulfate, total	mg/L	11/09/15 - 08/28/23	16	0	CI around geomean	288	6.48
AW-05	UA	E002	Thallium, total	mg/L	11/09/15 - 08/28/23	14	100	All ND - Last	0.001	0.001
AW-05	UA	E002	Total Dissolved Solids	mg/L	11/09/15 - 08/28/23	16	0	CI around geomean	1,010	1,050
AW-06	UA	E002	Antimony, total	mg/L	11/10/15 - 08/28/23	16	100	All ND - Last	0.003	0.003
AW-06	UA	E002	Arsenic, total	mg/L	11/10/15 - 08/28/23	21	0	CI around geomean	0.00295	0.0300
AW-06	UA	E002	Barium, total	mg/L	11/10/15 - 08/28/23	21	0	CI around median	0.18	2.07
AW-06	UA	E002	Beryllium, total	mg/L	11/10/15 - 08/28/23	21	86	CI around median	0.001	0.00190
AW-06	UA	E002	Boron, total	mg/L	11/10/15 - 08/28/23	22	0	CB around linear reg	0.0495	0.535
AW-06	UA	E002	Cadmium, total	mg/L	11/10/15 - 08/28/23	16	100	All ND - Last	0.001	0.00100
AW-06	UA	E002	Chloride, total	mg/L	11/10/15 - 08/28/23	22	0	CB around T-S line	-0.546	56.0
AW-06	UA	E002	Chromium, total	mg/L	11/10/15 - 08/28/23	21	52	CI around median	0.004	0.0480
AW-06	UA	E002	Cobalt, total	mg/L	11/10/15 - 08/28/23	21	57	CI around median	0.002	0.0280
AW-06	UA	E002	Fluoride, total	mg/L	11/10/15 - 08/28/23	22	9	CB around T-S line	0.215	0.396
AW-06	UA	E002	Lead, total	mg/L	11/10/15 - 08/28/23	21	38	CB around T-S line	-0.00334	0.0330
AW-06	UA	E002	Lithium, total	mg/L	11/10/15 - 08/28/23	21	43	CI around mean	0.0134	0.0710
AW-06	UA	E002	Mercury, total	mg/L	11/10/15 - 08/28/23	16	94	CI around median	0.0002	0.0002
AW-06	UA	E002	Molybdenum, total	mg/L	11/10/15 - 08/28/23	21	0	CI around mean	0.00481	0.00620
AW-06	UA	E002	pH (field)	SU	11/10/15 - 08/28/23	22	0	CI around median	7.1/7.2	6.3/7.1
AW-06	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 08/28/23	21	0	CI around mean	0.679	9.60
AW-06	UA	E002	Selenium, total	mg/L	11/10/15 - 08/28/23	21	71	CI around median	0.001	0.00320
AW-06	UA	E002	Sulfate, total	mg/L	11/10/15 - 08/28/23	22	0	CB around linear reg	17.4	6.48
AW-06	UA	E002	Thallium, total	mg/L	11/10/15 - 08/28/23	16	100	All ND - Last	0.001	0.001
AW-06	UA	E002	Total Dissolved Solids	mg/L	11/10/15 - 08/28/23	22	0	CI around mean	507	1,050
AW-09	UA	E002	Antimony, total	mg/L	11/10/15 - 08/29/23	16	100	All ND - Last	0.003	0.003

**ATTACHMENT C.**  
**COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023**  
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	E002	Arsenic, total	mg/L	11/10/15 - 08/29/23	21	14	CI around mean	0.0101	0.0300
AW-09	UA	E002	Barium, total	mg/L	11/10/15 - 08/29/23	21	0	CI around geomean	0.278	2.07
AW-09	UA	E002	Beryllium, total	mg/L	11/10/15 - 08/29/23	21	81	CB around T-S line	-0.000697	0.00190
AW-09	UA	E002	Boron, total	mg/L	11/10/15 - 08/29/23	22	0	CB around linear reg	-0.155	0.535
AW-09	UA	E002	Cadmium, total	mg/L	11/10/15 - 08/29/23	16	88	CI around median	0.001	0.00100
AW-09	UA	E002	Chloride, total	mg/L	11/10/15 - 08/29/23	22	0	CI around median	27	56.0
AW-09	UA	E002	Chromium, total	mg/L	11/10/15 - 08/29/23	21	52	CB around T-S line	-0.0626	0.0480
AW-09	UA	E002	Cobalt, total	mg/L	11/10/15 - 08/29/23	21	5	CB around T-S line	-0.0344	0.0280
AW-09	UA	E002	Fluoride, total	mg/L	11/10/15 - 08/29/23	22	59	CB around T-S line	0.182	0.396
AW-09	UA	E002	Lead, total	mg/L	11/10/15 - 08/29/23	21	43	CI around median	0.001	0.0330
AW-09	UA	E002	Lithium, total	mg/L	11/10/15 - 08/29/23	21	29	CB around T-S line	-0.0734	0.0710
AW-09	UA	E002	Mercury, total	mg/L	11/10/15 - 08/29/23	16	94	CI around median	0.0002	0.0002
AW-09	UA	E002	Molybdenum, total	mg/L	11/10/15 - 08/29/23	21	0	CI around mean	0.0137	0.00620
AW-09	UA	E002	pH (field)	SU	11/10/15 - 08/29/23	22	0	CI around mean	6.8/7.0	6.3/7.1
AW-09	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 08/29/23	21	0	CI around median	0.729	9.60
AW-09	UA	E002	Selenium, total	mg/L	11/10/15 - 08/29/23	21	62	CB around T-S line	-0.00292	0.00320
AW-09	UA	E002	Sulfate, total	mg/L	11/10/15 - 08/29/23	22	50	CB around linear reg	-14.6	6.48
AW-09	UA	E002	Thallium, total	mg/L	11/10/15 - 08/29/23	16	94	CI around median	0.001	0.001
AW-09	UA	E002	Total Dissolved Solids	mg/L	11/10/15 - 08/29/23	22	0	CB around T-S line	731	1,050
AW-10	UA	E002	Antimony, total	mg/L	11/09/15 - 08/28/23	17	100	All ND - Last	0.003	0.003
AW-10	UA	E002	Arsenic, total	mg/L	11/09/15 - 08/28/23	22	0	CI around geomean	0.0078	0.0300
AW-10	UA	E002	Barium, total	mg/L	11/09/15 - 08/28/23	22	0	CI around median	0.98	2.07
AW-10	UA	E002	Beryllium, total	mg/L	11/09/15 - 08/28/23	22	77	CI around median	0.001	0.00190
AW-10	UA	E002	Boron, total	mg/L	11/09/15 - 08/28/23	23	0	CI around mean	0.462	0.535
AW-10	UA	E002	Cadmium, total	mg/L	11/09/15 - 08/28/23	17	94	CI around median	0.001	0.00100
AW-10	UA	E002	Chloride, total	mg/L	11/09/15 - 08/28/23	23	0	CI around mean	87.2	56.0
AW-10	UA	E002	Chromium, total	mg/L	11/09/15 - 08/28/23	22	36	CI around median	0.004	0.0480

**ATTACHMENT C.**  
**COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023**  
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	E002	Cobalt, total	mg/L	11/09/15 - 08/28/23	22	4	CI around geomean	0.00352	0.0280
AW-10	UA	E002	Fluoride, total	mg/L	11/09/15 - 08/28/23	23	96	CI around median	0.25	0.396
AW-10	UA	E002	Lead, total	mg/L	11/09/15 - 08/28/23	22	14	CI around geomean	0.00182	0.0330
AW-10	UA	E002	Lithium, total	mg/L	11/09/15 - 08/28/23	22	0	CB around T-S line	-0.0418	0.0710
AW-10	UA	E002	Mercury, total	mg/L	11/09/15 - 08/28/23	17	94	CI around median	0.0002	0.0002
AW-10	UA	E002	Molybdenum, total	mg/L	11/09/15 - 08/28/23	22	27	CB around T-S line	-0.000829	0.00620
AW-10	UA	E002	pH (field)	SU	11/09/15 - 08/28/23	24	0	CI around mean	6.9/7.1	6.3/7.1
AW-10	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 08/28/23	22	0	CI around mean	2.27	9.60
AW-10	UA	E002	Selenium, total	mg/L	11/09/15 - 08/28/23	22	64	CB around T-S line	-0.000131	0.00320
AW-10	UA	E002	Sulfate, total	mg/L	11/09/15 - 08/28/23	23	78	CB around T-S line	0.0142	6.48
AW-10	UA	E002	Thallium, total	mg/L	11/09/15 - 08/28/23	17	94	CI around median	0.001	0.001
AW-10	UA	E002	Total Dissolved Solids	mg/L	11/09/15 - 08/28/23	23	0	CB around T-S line	1,100	1,050
AW-11	UA	E002	Antimony, total	mg/L	11/09/15 - 08/28/23	16	100	All ND - Last	0.003	0.003
AW-11	UA	E002	Arsenic, total	mg/L	11/09/15 - 08/28/23	21	0	CI around mean	0.0095	0.0300
AW-11	UA	E002	Barium, total	mg/L	11/09/15 - 08/28/23	21	0	CI around geomean	0.871	2.07
AW-11	UA	E002	Beryllium, total	mg/L	11/09/15 - 08/28/23	21	76	CI around median	0.001	0.00190
AW-11	UA	E002	Boron, total	mg/L	11/09/15 - 08/28/23	22	0	CI around geomean	0.22	0.535
AW-11	UA	E002	Cadmium, total	mg/L	11/09/15 - 08/28/23	16	81	CI around median	0.001	0.00100
AW-11	UA	E002	Chloride, total	mg/L	11/09/15 - 08/28/23	22	0	CI around mean	31.1	56.0
AW-11	UA	E002	Chromium, total	mg/L	11/09/15 - 08/28/23	21	48	CB around T-S line	-0.0235	0.0480
AW-11	UA	E002	Cobalt, total	mg/L	11/09/15 - 08/28/23	21	24	CB around T-S line	-0.00755	0.0280
AW-11	UA	E002	Fluoride, total	mg/L	11/09/15 - 08/28/23	22	86	CI around median	0.25	0.396
AW-11	UA	E002	Lead, total	mg/L	11/09/15 - 08/28/23	21	38	CB around T-S line	-0.0111	0.0330
AW-11	UA	E002	Lithium, total	mg/L	11/09/15 - 08/28/23	21	14	CB around T-S line	-0.0266	0.0710
AW-11	UA	E002	Mercury, total	mg/L	11/09/15 - 08/28/23	16	100	All ND - Last	0.0002	0.0002
AW-11	UA	E002	Molybdenum, total	mg/L	11/09/15 - 08/28/23	21	5	CB around linear reg	-0.00143	0.00620
AW-11	UA	E002	pH (field)	SU	11/09/15 - 08/28/23	22	0	CI around median	6.9/7.2	6.3/7.1

**ATTACHMENT C.**  
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-11	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 08/28/23	21	0	CI around geomean	1.5	9.60
AW-11	UA	E002	Selenium, total	mg/L	11/09/15 - 08/28/23	21	67	CI around median	0.001	0.00320
AW-11	UA	E002	Sulfate, total	mg/L	11/09/15 - 08/28/23	22	64	CB around T-S line	0.11	6.48
AW-11	UA	E002	Thallium, total	mg/L	11/09/15 - 08/28/23	16	100	All ND - Last	0.001	0.001
AW-11	UA	E002	Total Dissolved Solids	mg/L	11/09/15 - 08/28/23	22	0	CB around T-S line	954	1,050
AW-14	UA	E002	Antimony, total	mg/L	02/11/21 - 08/23/23	10	90	CI around median	0.003	0.003
AW-14	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/23/23	10	0	CI around mean	0.00692	0.0300
AW-14	UA	E002	Barium, total	mg/L	02/11/21 - 08/23/23	10	0	CB around linear reg	0.684	2.07
AW-14	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.001	0.00190
AW-14	UA	E002	Boron, total	mg/L	02/11/21 - 08/23/23	10	0	CI around mean	0.171	0.535
AW-14	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.001	0.00100
AW-14	UA	E002	Chloride, total	mg/L	02/11/21 - 08/23/23	10	0	CI around geomean	22.5	56.0
AW-14	UA	E002	Chromium, total	mg/L	02/11/21 - 08/23/23	10	90	CI around median	0.004	0.0480
AW-14	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/23/23	10	10	CB around linear reg	-0.00363	0.0280
AW-14	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/23/23	10	80	CI around median	0.25	0.396
AW-14	UA	E002	Lead, total	mg/L	02/11/21 - 08/23/23	10	70	CI around median	0.001	0.0330
AW-14	UA	E002	Lithium, total	mg/L	02/11/21 - 08/23/23	10	50	CI around median	0.02	0.0710
AW-14	UA	E002	Mercury, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.0002	0.0002
AW-14	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/23/23	10	30	CI around geomean	0.00126	0.00620
AW-14	UA	E002	pH (field)	SU	02/11/21 - 08/23/23	10	0	CI around mean	6.8/7.0	6.3/7.1
AW-14	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/23/23	10	0	CI around mean	1.91	9.60
AW-14	UA	E002	Selenium, total	mg/L	02/11/21 - 08/23/23	10	90	CI around median	0.001	0.00320
AW-14	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/23/23	10	20	CI around geomean	1.36	6.48
AW-14	UA	E002	Thallium, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.001	0.001
AW-14	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/23/23	10	0	CI around mean	902	1,050
AW-15	UA	E002	Antimony, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.003	0.003
AW-15	UA	E002	Arsenic, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	0.00175	0.0300



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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-15	UA	E002	Barium, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	1.59	2.07
AW-15	UA	E002	Beryllium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.00190
AW-15	UA	E002	Boron, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	0.325	0.535
AW-15	UA	E002	Cadmium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.00100
AW-15	UA	E002	Chloride, total	mg/L	02/12/21 - 08/23/23	8	0	CB around linear reg	22.3	56.0
AW-15	UA	E002	Chromium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.004	0.0480
AW-15	UA	E002	Cobalt, total	mg/L	02/12/21 - 08/23/23	8	88	CI around median	0.002	0.0280
AW-15	UA	E002	Fluoride, total	mg/L	02/12/21 - 08/23/23	8	75	CI around median	0.25	0.396
AW-15	UA	E002	Lead, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.0330
AW-15	UA	E002	Lithium, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	0.0278	0.0710
AW-15	UA	E002	Mercury, total	mg/L	02/12/21 - 08/23/23	8	88	CI around median	0.0002	0.0002
AW-15	UA	E002	Molybdenum, total	mg/L	02/12/21 - 08/23/23	8	75	CI around median	0.001	0.00620
AW-15	UA	E002	pH (field)	SU	02/12/21 - 08/23/23	7	0	CI around mean	6.6/6.8	6.3/7.1
AW-15	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 08/23/23	8	0	CI around mean	2.58	9.60
AW-15	UA	E002	Selenium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.00320
AW-15	UA	E002	Sulfate, total	mg/L	02/12/21 - 08/23/23	8	88	Most recent sample	1	6.48
AW-15	UA	E002	Thallium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.001
AW-15	UA	E002	Total Dissolved Solids	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	871	1,050
AW-15S	PMP	E002	Antimony, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.003	0.003
AW-15S	PMP	E002	Arsenic, total	mg/L	02/12/21 - 08/23/23	11	54	CI around median	0.001	0.0300
AW-15S	PMP	E002	Barium, total	mg/L	02/12/21 - 08/23/23	11	0	CB around T-S line	-0.232	2.07
AW-15S	PMP	E002	Beryllium, total	mg/L	02/12/21 - 08/23/23	11	91	CI around median	0.001	0.00190
AW-15S	PMP	E002	Boron, total	mg/L	02/12/21 - 08/23/23	11	0	CI around mean	5.46	0.535
AW-15S	PMP	E002	Cadmium, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.001	0.00100
AW-15S	PMP	E002	Chloride, total	mg/L	02/12/21 - 08/23/23	11	0	CB around linear reg	20.9	56.0
AW-15S	PMP	E002	Chromium, total	mg/L	02/12/21 - 08/23/23	11	91	CI around median	0.004	0.0480
AW-15S	PMP	E002	Cobalt, total	mg/L	02/12/21 - 08/23/23	11	91	CI around median	0.002	0.0280

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-15S	PMP	E002	Fluoride, total	mg/L	02/12/21 - 08/23/23	11	36	CI around median	0.25	0.396
AW-15S	PMP	E002	Lead, total	mg/L	02/12/21 - 08/23/23	11	82	CI around median	0.001	0.0330
AW-15S	PMP	E002	Lithium, total	mg/L	02/12/21 - 08/23/23	11	82	CI around median	0.02	0.0710
AW-15S	PMP	E002	Mercury, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.0002	0.0002
AW-15S	PMP	E002	Molybdenum, total	mg/L	02/12/21 - 08/23/23	11	0	CB around linear reg	0.00194	0.00620
AW-15S	PMP	E002	pH (field)	SU	02/12/21 - 08/23/23	11	0	CI around mean	6.7/7.0	6.3/7.1
AW-15S	PMP	E002	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 08/23/23	10	0	CI around mean	0.278	9.60
AW-15S	PMP	E002	Selenium, total	mg/L	02/12/21 - 08/23/23	11	46	CI around geomean	0.000977	0.00320
AW-15S	PMP	E002	Sulfate, total	mg/L	02/12/21 - 08/23/23	11	0	CB around linear reg	503	6.48
AW-15S	PMP	E002	Thallium, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.001	0.001
AW-15S	PMP	E002	Total Dissolved Solids	mg/L	02/12/21 - 08/23/23	11	0	CI around mean	1,180	1,050
AW-16	UA	E002	Antimony, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.003	0.003
AW-16	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/21/23	11	18	CI around mean	0.00119	0.0300
AW-16	UA	E002	Barium, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	1.17	2.07
AW-16	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00190
AW-16	UA	E002	Boron, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	0.466	0.535
AW-16	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00100
AW-16	UA	E002	Chloride, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	49.7	56.0
AW-16	UA	E002	Chromium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.004	0.0480
AW-16	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.002	0.0280
AW-16	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.25	0.396
AW-16	UA	E002	Lead, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.0330
AW-16	UA	E002	Lithium, total	mg/L	02/11/21 - 08/21/23	11	0	CI around median	0.032	0.0710
AW-16	UA	E002	Mercury, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	0.0002	0.0002
AW-16	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00620
AW-16	UA	E002	pH (field)	SU	02/11/21 - 08/21/23	11	0	CI around mean	6.6/6.9	6.3/7.1
AW-16	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/21/23	11	0	CI around mean	3.99	9.60



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AW-16	UA	E002	Selenium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00320
AW-16	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	1	6.48
AW-16	UA	E002	Thallium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.001
AW-16	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	1,050	1,050
AW-17	UA	E002	Antimony, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.003	0.003
AW-17	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	0.00449	0.0300
AW-17	UA	E002	Barium, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	1.04	2.07
AW-17	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00190
AW-17	UA	E002	Boron, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	0.413	0.535
AW-17	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00100
AW-17	UA	E002	Chloride, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	52	56.0
AW-17	UA	E002	Chromium, total	mg/L	02/11/21 - 08/21/23	11	64	CI around median	0.004	0.0480
AW-17	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/21/23	11	0	CI around geomean	0.00214	0.0280
AW-17	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	0.25	0.396
AW-17	UA	E002	Lead, total	mg/L	02/11/21 - 08/21/23	11	64	CI around median	0.001	0.0330
AW-17	UA	E002	Lithium, total	mg/L	02/11/21 - 08/21/23	11	0	CB around linear reg	-0.00453	0.0710
AW-17	UA	E002	Mercury, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	0.0002	0.0002
AW-17	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/21/23	11	36	CB around linear reg	-0.000279	0.00620
AW-17	UA	E002	pH (field)	SU	02/11/21 - 08/21/23	11	0	CI around median	6.6/7.0	6.3/7.1
AW-17	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/21/23	11	0	CI around mean	2.59	9.60
AW-17	UA	E002	Selenium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00320
AW-17	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	1	6.48
AW-17	UA	E002	Thallium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.001
AW-17	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	811	1,050
AW-18	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.003	0.003
AW-18	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.00319	0.0300
AW-18	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	0.983	2.07

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AW-18	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00190
AW-18	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.683	0.535
AW-18	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00100
AW-18	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	77.2	56.0
AW-18	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	11	91	CI around median	0.004	0.0480
AW-18	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	11	73	CI around median	0.002	0.0280
AW-18	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	11	46	CI around median	0.25	0.396
AW-18	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	11	82	CI around median	0.001	0.0330
AW-18	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	-0.032	0.0710
AW-18	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.0002	0.0002
AW-18	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	-0.0148	0.00620
AW-18	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	11	0	CI around mean	6.7/7.0	6.3/7.1
AW-18	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	11	0	CI around mean	2.11	9.60
AW-18	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	11	91	CI around median	0.001	0.00320
AW-18	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	4.08	6.48
AW-18	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.001
AW-18	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	779	1,050
AW-19	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.003	0.003
AW-19	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.0113	0.0300
AW-19	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	0.18	2.07
AW-19	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00190
AW-19	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	2.5	0.535
AW-19	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00100
AW-19	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	76.8	56.0
AW-19	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	11	73	CI around median	0.004	0.0480
AW-19	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	11	73	CI around median	0.002	0.0280
AW-19	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.288	0.396

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AW-19	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	11	46	CI around median	0.001	0.0330
AW-19	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	11	64	CI around median	0.02	0.0710
AW-19	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.0002	0.0002
AW-19	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	0.0034	0.00620
AW-19	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	11	0	CI around mean	6.7/7.1	6.3/7.1
AW-19	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	11	0	CI around mean	0.36	9.60
AW-19	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00320
AW-19	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	47.7	6.48
AW-19	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.001
AW-19	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	549	1,050
AW-21	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.003	0.003
AW-21	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	11	18	CI around mean	0.00102	0.0300
AW-21	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.0609	2.07
AW-21	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00190
AW-21	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	10.5	0.535
AW-21	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00100
AW-21	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	83	56.0
AW-21	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.004	0.0480
AW-21	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.002	0.0280
AW-21	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	0.107	0.396
AW-21	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	11	91	CI around median	0.001	0.0330
AW-21	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.02	0.0710
AW-21	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.0002	0.0002
AW-21	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.0162	0.00620
AW-21	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	11	0	CI around mean	6.9/7.5	6.3/7.1
AW-21	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	11	0	CI around mean	0.391	9.60
AW-21	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	11	82	CI around median	0.001	0.00320

**ATTACHMENT C.  
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023**

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	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	230	6.48
AW-21	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.001
AW-21	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	645	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

**ATTACHMENT D  
SUPPLEMENTAL GROUNDWATER ELEVATION DATA  
QUARTER 3, 2023**

**ATTACHMENT D.  
SUPPLEMENTAL GROUNDWATER ELEVATION DATA - QUARTER 3, 2023**

845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

<b>Well ID</b>	<b>Well Type</b>	<b>Date</b>	<b>Depth to Groundwater (feet BMP)</b>	<b>Groundwater Elevation (feet NAVD88)</b>
APW-01	Supplemental	08/21/2023	6.17	434.90
AW-20	Supplemental	08/21/2023	16.80	444.68
AW-23	Supplemental	08/21/2023	4.36	433.21
EMW-05	Supplemental	08/28/2023	[20.84]	[437.10]

**Notes:**

BMP = below measuring point

Bracketing [ ] indicates that the measurement was obtained outside of the 24-hour period from initiation of depth to groundwater measurements.

NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT E  
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS  
TO BACKGROUND  
QUARTER 3, 2023**

**ATTACHMENT E.  
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023**

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
APW-01	UA	E002	Antimony, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.003	0.003
APW-01	UA	E002	Arsenic, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.00182	0.0300
APW-01	UA	E002	Barium, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.0284	2.07
APW-01	UA	E002	Beryllium, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.001	0.00190
APW-01	UA	E002	Boron, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.567	0.535
APW-01	UA	E002	Cadmium, total	mg/L	06/17/21 - 08/23/23	5	80	CI around median (Last Sample, n<7)	0.001	0.00100
APW-01	UA	E002	Chloride, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	97.2	56.0
APW-01	UA	E002	Chromium, total	mg/L	06/17/21 - 08/23/23	5	40	CI around mean	-0.000941	0.0480
APW-01	UA	E002	Cobalt, total	mg/L	06/17/21 - 08/23/23	5	40	CI around mean	-0.001	0.0280
APW-01	UA	E002	Fluoride, total	mg/L	06/17/21 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.25	0.396
APW-01	UA	E002	Lead, total	mg/L	06/17/21 - 08/23/23	5	40	CI around mean	-0.00407	0.0330
APW-01	UA	E002	Lithium, total	mg/L	06/17/21 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.02	0.0710
APW-01	UA	E002	Mercury, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.0002	0.0002
APW-01	UA	E002	Molybdenum, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.000943	0.00620
APW-01	UA	E002	pH (field)	SU	06/17/21 - 08/23/23	5	0	CI around mean	6.5/7.2	6.3/7.1
APW-01	UA	E002	Radium 226 + Radium 228, total	pCi/L	06/17/21 - 08/23/23	4	0	CI around mean	-1.26	9.60
APW-01	UA	E002	Selenium, total	mg/L	06/17/21 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.001	0.00320
APW-01	UA	E002	Sulfate, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	279	6.48
APW-01	UA	E002	Thallium, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.001	0.001
APW-01	UA	E002	Total Dissolved Solids	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	779	1,050
AW-20	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.003	0.003
AW-20	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	0.011	0.0300
AW-20	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	0.128	2.07
AW-20	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.00190
AW-20	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	1.9	0.535
AW-20	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.00100
AW-20	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	85.7	56.0



**ATTACHMENT E.  
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023**

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-20	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	7	86	CI around median	0.004	0.0480
AW-20	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	7	57	CI around median	0.002	0.0280
AW-20	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	7	14	CI around mean	0.189	0.396
AW-20	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	7	71	CI around median	0.001	0.0330
AW-20	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	7	71	CI around median	0.02	0.0710
AW-20	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.0002	0.0002
AW-20	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	0.00231	0.00620
AW-20	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	7	0	CI around mean	6.4/7.1	6.3/7.1
AW-20	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	6	0	CI around mean	0.17	9.60
AW-20	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.00320
AW-20	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	38.2	6.48
AW-20	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.001
AW-20	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	737	1,050
AW-23	UA	E002	Antimony, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.003	0.003
AW-23	UA	E002	Arsenic, total	mg/L	11/21/22 - 08/23/23	5	80	CI around median (Last Sample, n<7)	0.001	0.0300
AW-23	UA	E002	Barium, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	0.02	2.07
AW-23	UA	E002	Beryllium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.00190
AW-23	UA	E002	Boron, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	0.458	0.535
AW-23	UA	E002	Cadmium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.00100
AW-23	UA	E002	Chloride, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	38.8	56.0
AW-23	UA	E002	Chromium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.004	0.0480
AW-23	UA	E002	Cobalt, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.002	0.0280
AW-23	UA	E002	Fluoride, total	mg/L	11/21/22 - 08/23/23	5	40	CI around mean	0.231	0.396
AW-23	UA	E002	Lead, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.0330
AW-23	UA	E002	Lithium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.02	0.0710
AW-23	UA	E002	Mercury, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.0002	0.0002
AW-23	UA	E002	Molybdenum, total	mg/L	11/21/22 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.001	0.00620

**ATTACHMENT E.**  
**SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023**

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-23	UA	E002	pH (field)	SU	11/21/22 - 08/23/23	5	0	CI around mean	6.6/7.1	6.3/7.1
AW-23	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/21/22 - 08/23/23	4	0	CI around mean	-0.112	9.60
AW-23	UA	E002	Selenium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.00320
AW-23	UA	E002	Sulfate, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	179	6.48
AW-23	UA	E002	Thallium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.001
AW-23	UA	E002	Total Dissolved Solids	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	701	1,050
EMW-05	UA	E002	Antimony, total	mg/L	11/18/22 - 08/28/23	5	100	All ND - Last	0.003	0.003
EMW-05	UA	E002	Arsenic, total	mg/L	11/18/22 - 08/28/23	5	20	CI around median (Last Sample, n<7)	0.001	0.0300
EMW-05	UA	E002	Barium, total	mg/L	11/18/22 - 08/28/23	5	0	CI around median (Last Sample, n<7)	0.062	2.07
EMW-05	UA	E002	Beryllium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.001	0.00190
EMW-05	UA	E002	Boron, total	mg/L	11/18/22 - 08/28/23	5	0	CI around mean	0.289	0.535
EMW-05	UA	E002	Cadmium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.001	0.00100
EMW-05	UA	E002	Chloride, total	mg/L	11/18/22 - 08/28/23	5	0	CI around mean	15.5	56.0
EMW-05	UA	E002	Chromium, total	mg/L	11/18/22 - 08/28/23	5	60	CI around median (Last Sample, n<7)	0.004	0.0480
EMW-05	UA	E002	Cobalt, total	mg/L	11/18/22 - 08/28/23	5	40	CI around median (Last Sample, n<7)	0.002	0.0280
EMW-05	UA	E002	Fluoride, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.25	0.396
EMW-05	UA	E002	Lead, total	mg/L	11/18/22 - 08/28/23	5	60	CI around median (Last Sample, n<7)	0.001	0.0330
EMW-05	UA	E002	Lithium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.02	0.0710
EMW-05	UA	E002	Mercury, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.0002	0.0002
EMW-05	UA	E002	Molybdenum, total	mg/L	11/18/22 - 08/28/23	5	0	CI around mean	0.000417	0.00620
EMW-05	UA	E002	pH (field)	SU	12/15/22 - 08/28/23	4	0	CI around mean	6.2/7.3	6.3/7.1
EMW-05	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 08/28/23	4	0	CI around mean	-0.288	9.60
EMW-05	UA	E002	Selenium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.001	0.00320
EMW-05	UA	E002	Sulfate, total	mg/L	11/18/22 - 08/28/23	5	0	CI around median (Last Sample, n<7)	130	6.48
EMW-05	UA	E002	Thallium, total	mg/L	11/18/22 - 08/28/23	5	100	All ND - Last	0.001	0.001
EMW-05	UA	E002	Total Dissolved Solids	mg/L	11/18/22 - 08/28/23	5	20	CI around median (Last Sample, n<7)	900	1,050

**ATTACHMENT E.**  
**SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023**  
845 QUARTERLY REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

**Notes:**

Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range  
For pH, the values presented are the lower / upper limits of the background determination