



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

October 08, 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 2, 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 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 2, 2023, Ash Pond, Edwards Power Plant, Bartonville, Illinois

**35 I.A.C. § 845.610(B)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 2, 2023
ASH POND, EDWARDS POWER PLANT, BARTONVILLE, ILLINOIS**

October 8, 2023

Samples were collected on June 12 through June 15, 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 August 9, 2023 (*i.e.*, radium analytical data).

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 2, 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 2, 2023 sampling event.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan¹ provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 2, 2023 groundwater monitoring data were evaluated for statistically significant levels (SSLs) 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 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 Network². 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 D** summarizes the groundwater elevation data for the Quarter 2, 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.

TABLES

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

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

² 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.

FIGURES

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

ATTACHMENTS

- Attachment A Groundwater Elevation Data - Quarter 2, 2023
- Attachment B Laboratory Reports and Field Data Sheets - Quarter 2, 2023
- Attachment C Comparison of Statistical Results to Background - Quarter 2, 2023
- Attachment D Supplemental Groundwater Elevation Data - Quarter 2, 2023
- Attachment E Supplemental Comparison of Statistical Results to Background - Quarter 2, 2023

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AP05S	Background	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
AP05S	Background	E001	06/14/2023	Arsenic, total	0.00360	mg/L
AP05S	Background	E001	06/14/2023	Barium, total	1.10	mg/L
AP05S	Background	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AP05S	Background	E001	06/14/2023	Boron, total	0.330 J+	mg/L
AP05S	Background	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AP05S	Background	E001	06/14/2023	Calcium, total	110	mg/L
AP05S	Background	E001	06/14/2023	Chloride, total	46.0	mg/L
AP05S	Background	E001	06/14/2023	Chromium, total	0.00860	mg/L
AP05S	Background	E001	06/14/2023	Cobalt, total	0.00520	mg/L
AP05S	Background	E001	06/14/2023	Dissolved Oxygen	0.0600	mg/L
AP05S	Background	E001	06/14/2023	Fluoride, total	0.04 U	mg/L
AP05S	Background	E001	06/14/2023	Lead, total	0.00510	mg/L
AP05S	Background	E001	06/14/2023	Lithium, total	0.0350	mg/L
AP05S	Background	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AP05S	Background	E001	06/14/2023	Molybdenum, total	0.00079 J	mg/L
AP05S	Background	E001	06/14/2023	Oxidation Reduction Potential	-151	mV
AP05S	Background	E001	06/14/2023	pH (field)	6.8	SU
AP05S	Background	E001	06/14/2023	Radium 226 + Radium 228, total	4.53	pCi/L
AP05S	Background	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AP05S	Background	E001	06/14/2023	Specific Conductance @ 25C (field)	1,699	micromhos/cm
AP05S	Background	E001	06/14/2023	Sulfate, total	3.10	mg/L
AP05S	Background	E001	06/14/2023	Temperature	18.5	degrees C
AP05S	Background	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AP05S	Background	E001	06/14/2023	Total Dissolved Solids	1,400 J+	mg/L
AP05S	Background	E001	06/14/2023	Turbidity, field	1,900	NTU
AW-08	Background	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
AW-08	Background	E001	06/14/2023	Arsenic, total	0.0100	mg/L
AW-08	Background	E001	06/14/2023	Barium, total	0.190	mg/L
AW-08	Background	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AW-08	Background	E001	06/14/2023	Boron, total	0.0920 J+	mg/L
AW-08	Background	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-08	Background	E001	06/14/2023	Calcium, total	140	mg/L
AW-08	Background	E001	06/14/2023	Chloride, total	16.0	mg/L
AW-08	Background	E001	06/14/2023	Chromium, total	0.0028 U	mg/L
AW-08	Background	E001	06/14/2023	Cobalt, total	0.00048 U	mg/L
AW-08	Background	E001	06/14/2023	Dissolved Oxygen	8.20	mg/L
AW-08	Background	E001	06/14/2023	Fluoride, total	0.0669 J	mg/L
AW-08	Background	E001	06/14/2023	Lead, total	0.00022 U	mg/L
AW-08	Background	E001	06/14/2023	Lithium, total	0.0099 J	mg/L
AW-08	Background	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-08	Background	E001	06/14/2023	Molybdenum, total	0.00160	mg/L
AW-08	Background	E001	06/14/2023	Oxidation Reduction Potential	-141	mV
AW-08	Background	E001	06/14/2023	pH (field)	7.1	SU
AW-08	Background	E001	06/14/2023	Radium 226 + Radium 228, total	0.815 J+	pCi/L
AW-08	Background	E001	06/14/2023	Selenium, total	0.00074 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-08	Background	E001	06/14/2023	Specific Conductance @ 25C (field)	1,353	micromhos/cm
AW-08	Background	E001	06/14/2023	Sulfate, total	0.18 U	mg/L
AW-08	Background	E001	06/14/2023	Temperature	19.4	degrees C
AW-08	Background	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AW-08	Background	E001	06/14/2023	Total Dissolved Solids	660 J+	mg/L
AW-08	Background	E001	06/14/2023	Turbidity, field	0 U	NTU
AP07S	Compliance	E001	06/15/2023	Antimony, total	0.00043 U	mg/L
AP07S	Compliance	E001	06/15/2023	Arsenic, total	0.00110	mg/L
AP07S	Compliance	E001	06/15/2023	Barium, total	0.110	mg/L
AP07S	Compliance	E001	06/15/2023	Beryllium, total	0.00059 U	mg/L
AP07S	Compliance	E001	06/15/2023	Boron, total	18.0	mg/L
AP07S	Compliance	E001	06/15/2023	Cadmium, total	0.00074 U	mg/L
AP07S	Compliance	E001	06/15/2023	Calcium, total	240	mg/L
AP07S	Compliance	E001	06/15/2023	Chloride, total	76.0	mg/L
AP07S	Compliance	E001	06/15/2023	Chromium, total	0.0130	mg/L
AP07S	Compliance	E001	06/15/2023	Cobalt, total	0.00430	mg/L
AP07S	Compliance	E001	06/15/2023	Dissolved Oxygen	2.00	mg/L
AP07S	Compliance	E001	06/15/2023	Fluoride, total	0.151 J	mg/L
AP07S	Compliance	E001	06/15/2023	Lead, total	0.00320	mg/L
AP07S	Compliance	E001	06/15/2023	Lithium, total	0.0088 J	mg/L
AP07S	Compliance	E001	06/15/2023	Mercury, total	0.00014 U	mg/L
AP07S	Compliance	E001	06/15/2023	Molybdenum, total	0.00120	mg/L
AP07S	Compliance	E001	06/15/2023	Oxidation Reduction Potential	61.5	mV
AP07S	Compliance	E001	06/15/2023	pH (field)	6.8	SU
AP07S	Compliance	E001	06/15/2023	Radium 226 + Radium 228, total	1.20 J+	pCi/L
AP07S	Compliance	E001	06/15/2023	Selenium, total	0.00074 U	mg/L
AP07S	Compliance	E001	06/15/2023	Specific Conductance @ 25C (field)	1,439	micromhos/cm
AP07S	Compliance	E001	06/15/2023	Sulfate, total	480	mg/L
AP07S	Compliance	E001	06/15/2023	Temperature	20.6	degrees C
AP07S	Compliance	E001	06/15/2023	Thallium, total	0.00038 U	mg/L
AP07S	Compliance	E001	06/15/2023	Total Dissolved Solids	1,600	mg/L
AP07S	Compliance	E001	06/15/2023	Turbidity, field	901	NTU
AW-01	Compliance	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
AW-01	Compliance	E001	06/14/2023	Arsenic, total	0.00630	mg/L
AW-01	Compliance	E001	06/14/2023	Barium, total	0.140	mg/L
AW-01	Compliance	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AW-01	Compliance	E001	06/14/2023	Boron, total	0.0720 J+	mg/L
AW-01	Compliance	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-01	Compliance	E001	06/14/2023	Calcium, total	180	mg/L
AW-01	Compliance	E001	06/14/2023	Chloride, total	10.0	mg/L
AW-01	Compliance	E001	06/14/2023	Chromium, total	0.0028 U	mg/L
AW-01	Compliance	E001	06/14/2023	Cobalt, total	0.00340	mg/L
AW-01	Compliance	E001	06/14/2023	Dissolved Oxygen	0.150	mg/L
AW-01	Compliance	E001	06/14/2023	Fluoride, total	0.04 U	mg/L
AW-01	Compliance	E001	06/14/2023	Lead, total	0.00022 U	mg/L
AW-01	Compliance	E001	06/14/2023	Lithium, total	0.005 U	mg/L

TABLE 1.
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ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-01	Compliance	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-01	Compliance	E001	06/14/2023	Molybdenum, total	0.00340	mg/L
AW-01	Compliance	E001	06/14/2023	Oxidation Reduction Potential	-72.0	mV
AW-01	Compliance	E001	06/14/2023	pH (field)	6.8	SU
AW-01	Compliance	E001	06/14/2023	Radium 226 + Radium 228, total	0.773	pCi/L
AW-01	Compliance	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AW-01	Compliance	E001	06/14/2023	Specific Conductance @ 25C (field)	1,275	micromhos/cm
AW-01	Compliance	E001	06/14/2023	Sulfate, total	52.0	mg/L
AW-01	Compliance	E001	06/14/2023	Temperature	18.2	degrees C
AW-01	Compliance	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AW-01	Compliance	E001	06/14/2023	Total Dissolved Solids	780 J+	mg/L
AW-01	Compliance	E001	06/14/2023	Turbidity, field	196	NTU
AW-05	Compliance	E001	06/15/2023	Antimony, total	0.00043 U	mg/L
AW-05	Compliance	E001	06/15/2023	Arsenic, total	0.00450	mg/L
AW-05	Compliance	E001	06/15/2023	Barium, total	0.160	mg/L
AW-05	Compliance	E001	06/15/2023	Beryllium, total	0.00059 U	mg/L
AW-05	Compliance	E001	06/15/2023	Boron, total	3.60	mg/L
AW-05	Compliance	E001	06/15/2023	Cadmium, total	0.00074 U	mg/L
AW-05	Compliance	E001	06/15/2023	Calcium, total	170	mg/L
AW-05	Compliance	E001	06/15/2023	Chloride, total	71.0	mg/L
AW-05	Compliance	E001	06/15/2023	Chromium, total	0.0100	mg/L
AW-05	Compliance	E001	06/15/2023	Cobalt, total	0.00640	mg/L
AW-05	Compliance	E001	06/15/2023	Dissolved Oxygen	0.270	mg/L
AW-05	Compliance	E001	06/15/2023	Fluoride, total	0.173 J	mg/L
AW-05	Compliance	E001	06/15/2023	Lead, total	0.00440	mg/L
AW-05	Compliance	E001	06/15/2023	Lithium, total	0.017 J	mg/L
AW-05	Compliance	E001	06/15/2023	Mercury, total	0.00014 U	mg/L
AW-05	Compliance	E001	06/15/2023	Molybdenum, total	0.00230	mg/L
AW-05	Compliance	E001	06/15/2023	Oxidation Reduction Potential	95.0	mV
AW-05	Compliance	E001	06/15/2023	pH (field)	7.0	SU
AW-05	Compliance	E001	06/15/2023	Radium 226 + Radium 228, total	3.09	pCi/L
AW-05	Compliance	E001	06/15/2023	Selenium, total	0.00074 U	mg/L
AW-05	Compliance	E001	06/15/2023	Specific Conductance @ 25C (field)	1,550	micromhos/cm
AW-05	Compliance	E001	06/15/2023	Sulfate, total	350	mg/L
AW-05	Compliance	E001	06/15/2023	Temperature	23.9	degrees C
AW-05	Compliance	E001	06/15/2023	Thallium, total	0.00038 U	mg/L
AW-05	Compliance	E001	06/15/2023	Total Dissolved Solids	1,100	mg/L
AW-05	Compliance	E001	06/15/2023	Turbidity, field	1,000	NTU
AW-06	Compliance	E001	06/14/2023	Antimony, total	0.00071 J	mg/L
AW-06	Compliance	E001	06/14/2023	Arsenic, total	0.00300	mg/L
AW-06	Compliance	E001	06/14/2023	Barium, total	0.160	mg/L
AW-06	Compliance	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AW-06	Compliance	E001	06/14/2023	Boron, total	0.120 J+	mg/L
AW-06	Compliance	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-06	Compliance	E001	06/14/2023	Calcium, total	100	mg/L
AW-06	Compliance	E001	06/14/2023	Chloride, total	35.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-06	Compliance	E001	06/14/2023	Chromium, total	0.0028 U	mg/L
AW-06	Compliance	E001	06/14/2023	Cobalt, total	0.0006 J	mg/L
AW-06	Compliance	E001	06/14/2023	Dissolved Oxygen	1.40	mg/L
AW-06	Compliance	E001	06/14/2023	Fluoride, total	0.319	mg/L
AW-06	Compliance	E001	06/14/2023	Lead, total	0.00049 J	mg/L
AW-06	Compliance	E001	06/14/2023	Lithium, total	0.012 J	mg/L
AW-06	Compliance	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-06	Compliance	E001	06/14/2023	Molybdenum, total	0.00490	mg/L
AW-06	Compliance	E001	06/14/2023	Oxidation Reduction Potential	-99.0	mV
AW-06	Compliance	E001	06/14/2023	pH (field)	7.1	SU
AW-06	Compliance	E001	06/14/2023	Radium 226 + Radium 228, total	0.910 J+	pCi/L
AW-06	Compliance	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AW-06	Compliance	E001	06/14/2023	Specific Conductance @ 25C (field)	1,030	micromhos/cm
AW-06	Compliance	E001	06/14/2023	Sulfate, total	21.0	mg/L
AW-06	Compliance	E001	06/14/2023	Temperature	16.2	degrees C
AW-06	Compliance	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AW-06	Compliance	E001	06/14/2023	Total Dissolved Solids	600 J+	mg/L
AW-06	Compliance	E001	06/14/2023	Turbidity, field	340	NTU
AW-09	Compliance	E001	06/12/2023	Antimony, total	0.00043 U	mg/L
AW-09	Compliance	E001	06/12/2023	Arsenic, total	0.0100	mg/L
AW-09	Compliance	E001	06/12/2023	Barium, total	0.290	mg/L
AW-09	Compliance	E001	06/12/2023	Beryllium, total	0.00059 U	mg/L
AW-09	Compliance	E001	06/12/2023	Boron, total	0.260	mg/L
AW-09	Compliance	E001	06/12/2023	Cadmium, total	0.00074 U	mg/L
AW-09	Compliance	E001	06/12/2023	Calcium, total	120	mg/L
AW-09	Compliance	E001	06/12/2023	Chloride, total	29.0	mg/L
AW-09	Compliance	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
AW-09	Compliance	E001	06/12/2023	Cobalt, total	0.00220	mg/L
AW-09	Compliance	E001	06/12/2023	Dissolved Oxygen	1.70	mg/L
AW-09	Compliance	E001	06/12/2023	Fluoride, total	0.04 U	mg/L
AW-09	Compliance	E001	06/12/2023	Lead, total	0.00031 J	mg/L
AW-09	Compliance	E001	06/12/2023	Lithium, total	0.015 J	mg/L
AW-09	Compliance	E001	06/12/2023	Mercury, total	0.00014 U	mg/L
AW-09	Compliance	E001	06/12/2023	Molybdenum, total	0.0210	mg/L
AW-09	Compliance	E001	06/12/2023	Oxidation Reduction Potential	-122	mV
AW-09	Compliance	E001	06/12/2023	pH (field)	6.9	SU
AW-09	Compliance	E001	06/12/2023	Radium 226 + Radium 228, total	0.23	pCi/L
AW-09	Compliance	E001	06/12/2023	Selenium, total	0.00074 U	mg/L
AW-09	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	1,550	micromhos/cm
AW-09	Compliance	E001	06/12/2023	Sulfate, total	0.18 U	mg/L
AW-09	Compliance	E001	06/12/2023	Temperature	16.2	degrees C
AW-09	Compliance	E001	06/12/2023	Thallium, total	0.00038 U	mg/L
AW-09	Compliance	E001	06/12/2023	Total Dissolved Solids	790	mg/L
AW-09	Compliance	E001	06/12/2023	Turbidity, field	67.2	NTU
AW-10	Compliance	E001	06/13/2023	Antimony, total	0.00043 U	mg/L
AW-10	Compliance	E001	06/13/2023	Arsenic, total	0.00990	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-10	Compliance	E001	06/13/2023	Barium, total	0.990	mg/L
AW-10	Compliance	E001	06/13/2023	Beryllium, total	0.00059 U	mg/L
AW-10	Compliance	E001	06/13/2023	Boron, total	0.460	mg/L
AW-10	Compliance	E001	06/13/2023	Cadmium, total	0.00074 U	mg/L
AW-10	Compliance	E001	06/13/2023	Calcium, total	130	mg/L
AW-10	Compliance	E001	06/13/2023	Chloride, total	89.0	mg/L
AW-10	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
AW-10	Compliance	E001	06/13/2023	Cobalt, total	0.00300	mg/L
AW-10	Compliance	E001	06/13/2023	Dissolved Oxygen	0.0100	mg/L
AW-10	Compliance	E001	06/13/2023	Fluoride, total	0.04 U	mg/L
AW-10	Compliance	E001	06/13/2023	Lead, total	0.00140	mg/L
AW-10	Compliance	E001	06/13/2023	Lithium, total	0.0370	mg/L
AW-10	Compliance	E001	06/13/2023	Mercury, total	0.00014 U	mg/L
AW-10	Compliance	E001	06/13/2023	Molybdenum, total	0.00120 J	mg/L
AW-10	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-151	mV
AW-10	Compliance	E001	06/13/2023	pH (field)	6.9	SU
AW-10	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	2.95 J+	pCi/L
AW-10	Compliance	E001	06/13/2023	Selenium, total	0.00074 U	mg/L
AW-10	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	2,174	micromhos/cm
AW-10	Compliance	E001	06/13/2023	Sulfate, total	0.18 U	mg/L
AW-10	Compliance	E001	06/13/2023	Temperature	21.1	degrees C
AW-10	Compliance	E001	06/13/2023	Thallium, total	0.00038 U	mg/L
AW-10	Compliance	E001	06/13/2023	Total Dissolved Solids	1,200	mg/L
AW-10	Compliance	E001	06/13/2023	Turbidity, field	991	NTU
AW-11	Compliance	E001	06/13/2023	Antimony, total	0.00043 U	mg/L
AW-11	Compliance	E001	06/13/2023	Arsenic, total	0.00990	mg/L
AW-11	Compliance	E001	06/13/2023	Barium, total	0.940	mg/L
AW-11	Compliance	E001	06/13/2023	Beryllium, total	0.00059 U	mg/L
AW-11	Compliance	E001	06/13/2023	Boron, total	0.240	mg/L
AW-11	Compliance	E001	06/13/2023	Cadmium, total	0.00074 U	mg/L
AW-11	Compliance	E001	06/13/2023	Calcium, total	160	mg/L
AW-11	Compliance	E001	06/13/2023	Chloride, total	33.0	mg/L
AW-11	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
AW-11	Compliance	E001	06/13/2023	Cobalt, total	0.0015 J	mg/L
AW-11	Compliance	E001	06/13/2023	Dissolved Oxygen	0.100	mg/L
AW-11	Compliance	E001	06/13/2023	Fluoride, total	0.04 U	mg/L
AW-11	Compliance	E001	06/13/2023	Lead, total	0.00041 J	mg/L
AW-11	Compliance	E001	06/13/2023	Lithium, total	0.018 J	mg/L
AW-11	Compliance	E001	06/13/2023	Mercury, total	0.00014 U	mg/L
AW-11	Compliance	E001	06/13/2023	Molybdenum, total	0.00140	mg/L
AW-11	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-160	mV
AW-11	Compliance	E001	06/13/2023	pH (field)	7.0	SU
AW-11	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	2.29 J+	pCi/L
AW-11	Compliance	E001	06/13/2023	Selenium, total	0.00074 U	mg/L
AW-11	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,757	micromhos/cm
AW-11	Compliance	E001	06/13/2023	Sulfate, total	0.18 J	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-11	Compliance	E001	06/13/2023	Temperature	17.6	degrees C
AW-11	Compliance	E001	06/13/2023	Thallium, total	0.00038 U	mg/L
AW-11	Compliance	E001	06/13/2023	Total Dissolved Solids	1,100	mg/L
AW-11	Compliance	E001	06/13/2023	Turbidity, field	329	NTU
AW-14	Compliance	E001	06/13/2023	Antimony, total	0.00046 J	mg/L
AW-14	Compliance	E001	06/13/2023	Arsenic, total	0.00780	mg/L
AW-14	Compliance	E001	06/13/2023	Barium, total	0.800	mg/L
AW-14	Compliance	E001	06/13/2023	Beryllium, total	0.00059 U	mg/L
AW-14	Compliance	E001	06/13/2023	Boron, total	0.180	mg/L
AW-14	Compliance	E001	06/13/2023	Cadmium, total	0.00074 U	mg/L
AW-14	Compliance	E001	06/13/2023	Calcium, total	180	mg/L
AW-14	Compliance	E001	06/13/2023	Chloride, total	24.0	mg/L
AW-14	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
AW-14	Compliance	E001	06/13/2023	Cobalt, total	0.00200	mg/L
AW-14	Compliance	E001	06/13/2023	Dissolved Oxygen	0.140	mg/L
AW-14	Compliance	E001	06/13/2023	Fluoride, total	0.04 U	mg/L
AW-14	Compliance	E001	06/13/2023	Lead, total	0.00022 U	mg/L
AW-14	Compliance	E001	06/13/2023	Lithium, total	0.014 J	mg/L
AW-14	Compliance	E001	06/13/2023	Mercury, total	0.00014 U	mg/L
AW-14	Compliance	E001	06/13/2023	Molybdenum, total	0.00390	mg/L
AW-14	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-152	mV
AW-14	Compliance	E001	06/13/2023	pH (field)	6.9	SU
AW-14	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	3.46 J+	pCi/L
AW-14	Compliance	E001	06/13/2023	Selenium, total	0.00074 U	mg/L
AW-14	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,875	micromhos/cm
AW-14	Compliance	E001	06/13/2023	Sulfate, total	2.90	mg/L
AW-14	Compliance	E001	06/13/2023	Temperature	18.0	degrees C
AW-14	Compliance	E001	06/13/2023	Thallium, total	0.00038 U	mg/L
AW-14	Compliance	E001	06/13/2023	Total Dissolved Solids	1,000	mg/L
AW-14	Compliance	E001	06/13/2023	Turbidity, field	10.4	NTU
AW-15	Compliance	E001	06/12/2023	Antimony, total	0.00043 U	mg/L
AW-15	Compliance	E001	06/12/2023	Arsenic, total	0.00200	mg/L
AW-15	Compliance	E001	06/12/2023	Barium, total	1.90	mg/L
AW-15	Compliance	E001	06/12/2023	Beryllium, total	0.00059 U	mg/L
AW-15	Compliance	E001	06/12/2023	Boron, total	0.360	mg/L
AW-15	Compliance	E001	06/12/2023	Cadmium, total	0.00074 U	mg/L
AW-15	Compliance	E001	06/12/2023	Calcium, total	140	mg/L
AW-15	Compliance	E001	06/12/2023	Chloride, total	35.0	mg/L
AW-15	Compliance	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
AW-15	Compliance	E001	06/12/2023	Cobalt, total	0.0016 J	mg/L
AW-15	Compliance	E001	06/12/2023	Dissolved Oxygen	0.270	mg/L
AW-15	Compliance	E001	06/12/2023	Fluoride, total	0.04 U	mg/L
AW-15	Compliance	E001	06/12/2023	Lead, total	0.00022 U	mg/L
AW-15	Compliance	E001	06/12/2023	Lithium, total	0.0300	mg/L
AW-15	Compliance	E001	06/12/2023	Mercury, total	0.00014 U	mg/L
AW-15	Compliance	E001	06/12/2023	Molybdenum, total	0.00074 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-15	Compliance	E001	06/12/2023	Oxidation Reduction Potential	-101	mV
AW-15	Compliance	E001	06/12/2023	pH (field)	6.6	SU
AW-15	Compliance	E001	06/12/2023	Radium 226 + Radium 228, total	3.80 J+	pCi/L
AW-15	Compliance	E001	06/12/2023	Selenium, total	0.00074 U	mg/L
AW-15	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	1,970	micromhos/cm
AW-15	Compliance	E001	06/12/2023	Sulfate, total	0.18 U	mg/L
AW-15	Compliance	E001	06/12/2023	Temperature	17.4	degrees C
AW-15	Compliance	E001	06/12/2023	Thallium, total	0.00038 U	mg/L
AW-15	Compliance	E001	06/12/2023	Total Dissolved Solids	1,400	mg/L
AW-15	Compliance	E001	06/12/2023	Turbidity, field	46.5	NTU
AW-15S	Compliance	E001	06/12/2023	Antimony, total	0.00043 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Arsenic, total	0.00069 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Barium, total	0.0750	mg/L
AW-15S	Compliance	E001	06/12/2023	Beryllium, total	0.00059 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Boron, total	6.70	mg/L
AW-15S	Compliance	E001	06/12/2023	Cadmium, total	0.00074 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Calcium, total	280	mg/L
AW-15S	Compliance	E001	06/12/2023	Chloride, total	31.0	mg/L
AW-15S	Compliance	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Cobalt, total	0.00049 J	mg/L
AW-15S	Compliance	E001	06/12/2023	Dissolved Oxygen	6.00	mg/L
AW-15S	Compliance	E001	06/12/2023	Fluoride, total	0.04 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Lead, total	0.00022 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Lithium, total	0.013 J	mg/L
AW-15S	Compliance	E001	06/12/2023	Mercury, total	0.00014 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Molybdenum, total	0.00300	mg/L
AW-15S	Compliance	E001	06/12/2023	Oxidation Reduction Potential	38.0	mV
AW-15S	Compliance	E001	06/12/2023	pH (field)	6.7	SU
AW-15S	Compliance	E001	06/12/2023	Radium 226 + Radium 228, total	0.203	pCi/L
AW-15S	Compliance	E001	06/12/2023	Selenium, total	0.00180	mg/L
AW-15S	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	1,840	micromhos/cm
AW-15S	Compliance	E001	06/12/2023	Sulfate, total	590	mg/L
AW-15S	Compliance	E001	06/12/2023	Temperature	15.8	degrees C
AW-15S	Compliance	E001	06/12/2023	Thallium, total	0.00038 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Total Dissolved Solids	990	mg/L
AW-15S	Compliance	E001	06/12/2023	Turbidity, field	29.1	NTU
AW-16	Compliance	E001	06/12/2023	Antimony, total	0.00043 U	mg/L
AW-16	Compliance	E001	06/12/2023	Arsenic, total	0.00170	mg/L
AW-16	Compliance	E001	06/12/2023	Barium, total	1.30	mg/L
AW-16	Compliance	E001	06/12/2023	Beryllium, total	0.00059 U	mg/L
AW-16	Compliance	E001	06/12/2023	Boron, total	0.450	mg/L
AW-16	Compliance	E001	06/12/2023	Cadmium, total	0.00074 U	mg/L
AW-16	Compliance	E001	06/12/2023	Calcium, total	150	mg/L
AW-16	Compliance	E001	06/12/2023	Chloride, total	50.0	mg/L
AW-16	Compliance	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
AW-16	Compliance	E001	06/12/2023	Cobalt, total	0.0016 J	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-16	Compliance	E001	06/12/2023	Dissolved Oxygen	0.510	mg/L
AW-16	Compliance	E001	06/12/2023	Fluoride, total	0.04 U	mg/L
AW-16	Compliance	E001	06/12/2023	Lead, total	0.00022 U	mg/L
AW-16	Compliance	E001	06/12/2023	Lithium, total	0.0310	mg/L
AW-16	Compliance	E001	06/12/2023	Mercury, total	0.00014 U	mg/L
AW-16	Compliance	E001	06/12/2023	Molybdenum, total	0.00074 U	mg/L
AW-16	Compliance	E001	06/12/2023	Oxidation Reduction Potential	-101	mV
AW-16	Compliance	E001	06/12/2023	pH (field)	6.5	SU
AW-16	Compliance	E001	06/12/2023	Radium 226 + Radium 228, total	3.74 J+	pCi/L
AW-16	Compliance	E001	06/12/2023	Selenium, total	0.00074 U	mg/L
AW-16	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	2,110	micromhos/cm
AW-16	Compliance	E001	06/12/2023	Sulfate, total	0.18 U	mg/L
AW-16	Compliance	E001	06/12/2023	Temperature	17.9	degrees C
AW-16	Compliance	E001	06/12/2023	Thallium, total	0.00038 U	mg/L
AW-16	Compliance	E001	06/12/2023	Total Dissolved Solids	1,500	mg/L
AW-16	Compliance	E001	06/12/2023	Turbidity, field	77.4	NTU
AW-17	Compliance	E001	06/13/2023	Antimony, total	0.00043 U	mg/L
AW-17	Compliance	E001	06/13/2023	Arsenic, total	0.00450	mg/L
AW-17	Compliance	E001	06/13/2023	Barium, total	1.10	mg/L
AW-17	Compliance	E001	06/13/2023	Beryllium, total	0.00059 U	mg/L
AW-17	Compliance	E001	06/13/2023	Boron, total	0.400	mg/L
AW-17	Compliance	E001	06/13/2023	Cadmium, total	0.00074 U	mg/L
AW-17	Compliance	E001	06/13/2023	Calcium, total	110	mg/L
AW-17	Compliance	E001	06/13/2023	Chloride, total	53.0	mg/L
AW-17	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
AW-17	Compliance	E001	06/13/2023	Cobalt, total	0.00250	mg/L
AW-17	Compliance	E001	06/13/2023	Dissolved Oxygen	0.690	mg/L
AW-17	Compliance	E001	06/13/2023	Fluoride, total	0.04 U	mg/L
AW-17	Compliance	E001	06/13/2023	Lead, total	0.00099 J	mg/L
AW-17	Compliance	E001	06/13/2023	Lithium, total	0.0310	mg/L
AW-17	Compliance	E001	06/13/2023	Mercury, total	0.00014 U	mg/L
AW-17	Compliance	E001	06/13/2023	Molybdenum, total	0.00074 U	mg/L
AW-17	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-111	mV
AW-17	Compliance	E001	06/13/2023	pH (field)	7.0	SU
AW-17	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	2.97 J+	pCi/L
AW-17	Compliance	E001	06/13/2023	Selenium, total	0.00074 U	mg/L
AW-17	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,910	micromhos/cm
AW-17	Compliance	E001	06/13/2023	Sulfate, total	0.18 U	mg/L
AW-17	Compliance	E001	06/13/2023	Temperature	17.0	degrees C
AW-17	Compliance	E001	06/13/2023	Thallium, total	0.00038 U	mg/L
AW-17	Compliance	E001	06/13/2023	Total Dissolved Solids	1,100	mg/L
AW-17	Compliance	E001	06/13/2023	Turbidity, field	124	NTU
AW-18	Compliance	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
AW-18	Compliance	E001	06/14/2023	Arsenic, total	0.00330	mg/L
AW-18	Compliance	E001	06/14/2023	Barium, total	1.30	mg/L
AW-18	Compliance	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
 EDWARDS POWER PLANT
 ASH POND
 BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-18	Compliance	E001	06/14/2023	Boron, total	1.30 J+	mg/L
AW-18	Compliance	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-18	Compliance	E001	06/14/2023	Calcium, total	120	mg/L
AW-18	Compliance	E001	06/14/2023	Chloride, total	97.0	mg/L
AW-18	Compliance	E001	06/14/2023	Chromium, total	0.0037 J	mg/L
AW-18	Compliance	E001	06/14/2023	Cobalt, total	0.0013 J	mg/L
AW-18	Compliance	E001	06/14/2023	Dissolved Oxygen	1.70	mg/L
AW-18	Compliance	E001	06/14/2023	Fluoride, total	0.04 U	mg/L
AW-18	Compliance	E001	06/14/2023	Lead, total	0.00110	mg/L
AW-18	Compliance	E001	06/14/2023	Lithium, total	0.0220	mg/L
AW-18	Compliance	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-18	Compliance	E001	06/14/2023	Molybdenum, total	0.00260	mg/L
AW-18	Compliance	E001	06/14/2023	Oxidation Reduction Potential	-105	mV
AW-18	Compliance	E001	06/14/2023	pH (field)	6.7	SU
AW-18	Compliance	E001	06/14/2023	Radium 226 + Radium 228, total	2.92	pCi/L
AW-18	Compliance	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AW-18	Compliance	E001	06/14/2023	Specific Conductance @ 25C (field)	1,790	micromhos/cm
AW-18	Compliance	E001	06/14/2023	Sulfate, total	7.70	mg/L
AW-18	Compliance	E001	06/14/2023	Temperature	17.5	degrees C
AW-18	Compliance	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AW-18	Compliance	E001	06/14/2023	Total Dissolved Solids	930 J+	mg/L
AW-18	Compliance	E001	06/14/2023	Turbidity, field	218	NTU
AW-19	Compliance	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
AW-19	Compliance	E001	06/14/2023	Arsenic, total	0.0150	mg/L
AW-19	Compliance	E001	06/14/2023	Barium, total	0.200	mg/L
AW-19	Compliance	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AW-19	Compliance	E001	06/14/2023	Boron, total	2.30	mg/L
AW-19	Compliance	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-19	Compliance	E001	06/14/2023	Calcium, total	120	mg/L
AW-19	Compliance	E001	06/14/2023	Chloride, total	82.0	mg/L
AW-19	Compliance	E001	06/14/2023	Chromium, total	0.0028 U	mg/L
AW-19	Compliance	E001	06/14/2023	Cobalt, total	0.0017 J	mg/L
AW-19	Compliance	E001	06/14/2023	Dissolved Oxygen	2.30	mg/L
AW-19	Compliance	E001	06/14/2023	Fluoride, total	0.266	mg/L
AW-19	Compliance	E001	06/14/2023	Lead, total	0.00170 J	mg/L
AW-19	Compliance	E001	06/14/2023	Lithium, total	0.011 J	mg/L
AW-19	Compliance	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-19	Compliance	E001	06/14/2023	Molybdenum, total	0.00390	mg/L
AW-19	Compliance	E001	06/14/2023	Oxidation Reduction Potential	-52.0	mV
AW-19	Compliance	E001	06/14/2023	pH (field)	6.9	SU
AW-19	Compliance	E001	06/14/2023	Radium 226 + Radium 228, total	0.471 J	pCi/L
AW-19	Compliance	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AW-19	Compliance	E001	06/14/2023	Specific Conductance @ 25C (field)	1,110	micromhos/cm
AW-19	Compliance	E001	06/14/2023	Sulfate, total	52.0	mg/L
AW-19	Compliance	E001	06/14/2023	Temperature	17.0	degrees C
AW-19	Compliance	E001	06/14/2023	Thallium, total	0.00038 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

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 EDWARDS POWER PLANT
 ASH POND
 BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-19	Compliance	E001	06/14/2023	Total Dissolved Solids	620 J+	mg/L
AW-19	Compliance	E001	06/14/2023	Turbidity, field	27.9	NTU
AW-21	Compliance	E001	06/14/2023	Antimony, total	0.00057 J	mg/L
AW-21	Compliance	E001	06/14/2023	Arsenic, total	0.00180	mg/L
AW-21	Compliance	E001	06/14/2023	Barium, total	0.0590	mg/L
AW-21	Compliance	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AW-21	Compliance	E001	06/14/2023	Boron, total	8.70	mg/L
AW-21	Compliance	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-21	Compliance	E001	06/14/2023	Calcium, total	110	mg/L
AW-21	Compliance	E001	06/14/2023	Chloride, total	97.0	mg/L
AW-21	Compliance	E001	06/14/2023	Chromium, total	0.0028 U	mg/L
AW-21	Compliance	E001	06/14/2023	Cobalt, total	0.00063 J	mg/L
AW-21	Compliance	E001	06/14/2023	Dissolved Oxygen	2.70	mg/L
AW-21	Compliance	E001	06/14/2023	Fluoride, total	0.312	mg/L
AW-21	Compliance	E001	06/14/2023	Lead, total	0.00022 U	mg/L
AW-21	Compliance	E001	06/14/2023	Lithium, total	0.005 U	mg/L
AW-21	Compliance	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-21	Compliance	E001	06/14/2023	Molybdenum, total	0.0170	mg/L
AW-21	Compliance	E001	06/14/2023	Oxidation Reduction Potential	-28.0	mV
AW-21	Compliance	E001	06/14/2023	pH (field)	7.1	SU
AW-21	Compliance	E001	06/14/2023	Radium 226 + Radium 228, total	0.326	pCi/L
AW-21	Compliance	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AW-21	Compliance	E001	06/14/2023	Specific Conductance @ 25C (field)	983	micromhos/cm
AW-21	Compliance	E001	06/14/2023	Sulfate, total	240	mg/L
AW-21	Compliance	E001	06/14/2023	Temperature	17.4	degrees C
AW-21	Compliance	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AW-21	Compliance	E001	06/14/2023	Total Dissolved Solids	680 J+	mg/L
AW-21	Compliance	E001	06/14/2023	Turbidity, field	6.40	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 2, 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	E001	Antimony, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AP07S	PMP	E001	Arsenic, total	mg/L	02/10/21 - 06/15/23	10	80	CI around median	0.001	0.0300	Background	No Exceedance
AP07S	PMP	E001	Barium, total	mg/L	02/10/21 - 06/15/23	10	0	CI around mean	0.0791	2.07	Background	No Exceedance
AP07S	PMP	E001	Beryllium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AP07S	PMP	E001	Boron, total	mg/L	02/10/21 - 06/15/23	10	0	CB around linear reg	6.94	2	Standard	Exceedance
AP07S	PMP	E001	Cadmium, total	mg/L	02/10/21 - 06/15/23	10	90	CI around median	0.001	0.005	Standard	No Exceedance
AP07S	PMP	E001	Chloride, total	mg/L	02/10/21 - 06/15/23	10	0	CI around mean	72.5	200	Standard	No Exceedance
AP07S	PMP	E001	Chromium, total	mg/L	02/10/21 - 06/15/23	10	60	CI around median	0.004	0.1	Standard	No Exceedance
AP07S	PMP	E001	Cobalt, total	mg/L	02/10/21 - 06/15/23	10	0	CI around mean	0.00228	0.0280	Background	No Exceedance
AP07S	PMP	E001	Fluoride, total	mg/L	02/10/21 - 06/15/23	10	70	CB around T-S line	-2.23	4.0	Standard	No Exceedance
AP07S	PMP	E001	Lead, total	mg/L	02/10/21 - 06/15/23	10	50	CI around median	0.001	0.0330	Background	No Exceedance
AP07S	PMP	E001	Lithium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AP07S	PMP	E001	Mercury, total	mg/L	02/10/21 - 06/15/23	10	90	CI around median	0.0002	0.002	Standard	No Exceedance
AP07S	PMP	E001	Molybdenum, total	mg/L	02/10/21 - 06/15/23	10	50	CI around median	0.001	0.1	Standard	No Exceedance
AP07S	PMP	E001	pH (field)	SU	02/10/21 - 06/15/23	10	0	CI around mean	6.5/6.9	6.3/9.0	Background/Standard	No Exceedance
AP07S	PMP	E001	Radium 226 + Radium 228, total	pCi/L	02/10/21 - 06/15/23	10	0	CI around mean	0.452	9.60	Background	No Exceedance
AP07S	PMP	E001	Selenium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AP07S	PMP	E001	Sulfate, total	mg/L	02/10/21 - 06/15/23	10	0	CI around median	160	400	Standard	No Exceedance
AP07S	PMP	E001	Thallium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AP07S	PMP	E001	Total Dissolved Solids	mg/L	02/10/21 - 06/15/23	10	0	CB around linear reg	224	1,200	Standard	No Exceedance
AW-01	PMP	E001	Antimony, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-01	PMP	E001	Arsenic, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	-0.00267	0.0300	Background	No Exceedance
AW-01	PMP	E001	Barium, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	0.0903	2.07	Background	No Exceedance
AW-01	PMP	E001	Beryllium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-01	PMP	E001	Boron, total	mg/L	11/18/22 - 06/14/23	5	0	CI around median (Last Sample, n<7)	0.072	2	Standard	No Exceedance
AW-01	PMP	E001	Cadmium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-01	PMP	E001	Chloride, total	mg/L	11/18/22 - 06/14/23	5	0	CI around geomean	4.14	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 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	E001	Chromium, total	mg/L	11/18/22 - 06/14/23	5	80	CI around median (Last Sample, n<7)	0.004	0.1	Standard	No Exceedance
AW-01	PMP	E001	Cobalt, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	0.00199	0.0280	Background	No Exceedance
AW-01	PMP	E001	Fluoride, total	mg/L	11/18/22 - 06/14/23	5	60	CI around median (Last Sample, n<7)	0.25	4.0	Standard	No Exceedance
AW-01	PMP	E001	Lead, total	mg/L	11/18/22 - 06/14/23	5	80	CI around median (Last Sample, n<7)	0.001	0.0330	Background	No Exceedance
AW-01	PMP	E001	Lithium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-01	PMP	E001	Mercury, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-01	PMP	E001	Molybdenum, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	0.00159	0.1	Standard	No Exceedance
AW-01	PMP	E001	pH (field)	SU	11/18/22 - 06/14/23	5	0	CI around mean	6.6/7.3	6.3/9.0	Background/Standard	No Exceedance
AW-01	PMP	E001	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 06/14/23	5	0	CI around mean	-0.997	9.60	Background	No Exceedance
AW-01	PMP	E001	Selenium, total	mg/L	11/18/22 - 06/14/23	5	80	CI around median (Last Sample, n<7)	0.001	0.05	Standard	No Exceedance
AW-01	PMP	E001	Sulfate, total	mg/L	11/18/22 - 06/14/23	5	0	CI around median (Last Sample, n<7)	52	400	Standard	No Exceedance
AW-01	PMP	E001	Thallium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-01	PMP	E001	Total Dissolved Solids	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	664	1,200	Standard	No Exceedance
AW-05	UA	E001	Antimony, total	mg/L	11/09/15 - 06/15/23	14	93	Most recent sample	0.003	0.006	Standard	No Exceedance
AW-05	UA	E001	Arsenic, total	mg/L	11/09/15 - 06/15/23	14	0	CI around geomean	0.00403	0.0300	Background	No Exceedance
AW-05	UA	E001	Barium, total	mg/L	11/09/15 - 06/15/23	14	0	CI around mean	0.144	2.07	Background	No Exceedance
AW-05	UA	E001	Beryllium, total	mg/L	11/09/15 - 06/15/23	13	85	CI around median	0.001	0.004	Standard	No Exceedance
AW-05	UA	E001	Boron, total	mg/L	11/09/15 - 06/15/23	15	0	CI around geomean	1.88	2	Standard	No Exceedance
AW-05	UA	E001	Cadmium, total	mg/L	11/09/15 - 06/15/23	14	86	CI around median	0.001	0.005	Standard	No Exceedance
AW-05	UA	E001	Chloride, total	mg/L	11/09/15 - 06/15/23	15	0	CB around linear reg	-208	200	Standard	No Exceedance
AW-05	UA	E001	Chromium, total	mg/L	11/09/15 - 06/15/23	14	36	CI around geomean	0.00573	0.1	Standard	No Exceedance
AW-05	UA	E001	Cobalt, total	mg/L	11/09/15 - 06/15/23	14	21	CI around geomean	0.00336	0.0280	Background	No Exceedance
AW-05	UA	E001	Fluoride, total	mg/L	11/09/15 - 06/15/23	15	47	CI around median	0.25	4.0	Standard	No Exceedance
AW-05	UA	E001	Lead, total	mg/L	11/09/15 - 06/15/23	13	38	CI around geomean	0.00156	0.0330	Background	No Exceedance
AW-05	UA	E001	Lithium, total	mg/L	11/09/15 - 06/15/23	14	21	CI around geomean	0.0217	0.0710	Background	No Exceedance
AW-05	UA	E001	Mercury, total	mg/L	11/09/15 - 06/15/23	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-05	UA	E001	Molybdenum, total	mg/L	11/09/15 - 06/15/23	14	0	CI around mean	0.00202	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 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	E001	pH (field)	SU	11/09/15 - 06/15/23	15	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-05	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 06/15/23	14	0	CI around mean	0.75	9.60	Background	No Exceedance
AW-05	UA	E001	Selenium, total	mg/L	11/09/15 - 06/15/23	14	43	CI around median	0.001	0.05	Standard	No Exceedance
AW-05	UA	E001	Sulfate, total	mg/L	11/09/15 - 06/15/23	15	0	CI around mean	283	400	Standard	No Exceedance
AW-05	UA	E001	Thallium, total	mg/L	11/09/15 - 06/15/23	13	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-05	UA	E001	Total Dissolved Solids	mg/L	11/09/15 - 06/15/23	15	0	CI around geomean	1,000	1,200	Standard	No Exceedance
AW-06	UA	E001	Antimony, total	mg/L	11/10/15 - 06/14/23	15	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-06	UA	E001	Arsenic, total	mg/L	11/10/15 - 06/14/23	20	0	CI around geomean	0.00286	0.0300	Background	No Exceedance
AW-06	UA	E001	Barium, total	mg/L	11/10/15 - 06/14/23	20	0	CI around median	0.16	2.07	Background	No Exceedance
AW-06	UA	E001	Beryllium, total	mg/L	11/10/15 - 06/14/23	20	85	CI around median	0.001	0.004	Standard	No Exceedance
AW-06	UA	E001	Boron, total	mg/L	11/10/15 - 06/14/23	21	0	CB around T-S line	-0.018	2	Standard	No Exceedance
AW-06	UA	E001	Cadmium, total	mg/L	11/10/15 - 06/14/23	15	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-06	UA	E001	Chloride, total	mg/L	11/10/15 - 06/14/23	21	0	CB around T-S line	1.72	200	Standard	No Exceedance
AW-06	UA	E001	Chromium, total	mg/L	11/10/15 - 06/14/23	20	50	CI around median	0.004	0.1	Standard	No Exceedance
AW-06	UA	E001	Cobalt, total	mg/L	11/10/15 - 06/14/23	20	55	CI around median	0.002	0.0280	Background	No Exceedance
AW-06	UA	E001	Fluoride, total	mg/L	11/10/15 - 06/14/23	21	10	CI around median	0.319	4.0	Standard	No Exceedance
AW-06	UA	E001	Lead, total	mg/L	11/10/15 - 06/14/23	20	35	CI around median	0.001	0.0330	Background	No Exceedance
AW-06	UA	E001	Lithium, total	mg/L	11/10/15 - 06/14/23	20	40	CI around mean	0.0135	0.0710	Background	No Exceedance
AW-06	UA	E001	Mercury, total	mg/L	11/10/15 - 06/14/23	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
AW-06	UA	E001	Molybdenum, total	mg/L	11/10/15 - 06/14/23	20	0	CI around mean	0.00474	0.1	Standard	No Exceedance
AW-06	UA	E001	pH (field)	SU	11/10/15 - 06/14/23	21	0	CI around median	7.1/7.2	6.3/9.0	Background/Standard	No Exceedance
AW-06	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 06/14/23	20	0	CI around mean	0.725	9.60	Background	No Exceedance
AW-06	UA	E001	Selenium, total	mg/L	11/10/15 - 06/14/23	20	70	CI around median	0.001	0.05	Standard	No Exceedance
AW-06	UA	E001	Sulfate, total	mg/L	11/10/15 - 06/14/23	21	0	CB around linear reg	16.8	400	Standard	No Exceedance
AW-06	UA	E001	Thallium, total	mg/L	11/10/15 - 06/14/23	15	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-06	UA	E001	Total Dissolved Solids	mg/L	11/10/15 - 06/14/23	21	0	CI around mean	505	1,200	Standard	No Exceedance
AW-09	UA	E001	Antimony, total	mg/L	11/10/15 - 06/12/23	15	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 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	E001	Arsenic, total	mg/L	11/10/15 - 06/12/23	20	15	CI around mean	0.00971	0.0300	Background	No Exceedance
AW-09	UA	E001	Barium, total	mg/L	11/10/15 - 06/12/23	20	0	CI around geomean	0.273	2.07	Background	No Exceedance
AW-09	UA	E001	Beryllium, total	mg/L	11/10/15 - 06/12/23	20	80	CB around T-S line	-0.00127	0.004	Standard	No Exceedance
AW-09	UA	E001	Boron, total	mg/L	11/10/15 - 06/12/23	21	0	CB around linear reg	-0.197	2	Standard	No Exceedance
AW-09	UA	E001	Cadmium, total	mg/L	11/10/15 - 06/12/23	15	87	CI around median	0.001	0.005	Standard	No Exceedance
AW-09	UA	E001	Chloride, total	mg/L	11/10/15 - 06/12/23	21	0	CI around median	27	200	Standard	No Exceedance
AW-09	UA	E001	Chromium, total	mg/L	11/10/15 - 06/12/23	20	50	CB around T-S line	-0.0731	0.1	Standard	No Exceedance
AW-09	UA	E001	Cobalt, total	mg/L	11/10/15 - 06/12/23	20	5	CB around T-S line	-0.0405	0.0280	Background	No Exceedance
AW-09	UA	E001	Fluoride, total	mg/L	11/10/15 - 06/12/23	21	57	CB around T-S line	0.168	4.0	Standard	No Exceedance
AW-09	UA	E001	Lead, total	mg/L	11/10/15 - 06/12/23	20	45	CI around median	0.001	0.0330	Background	No Exceedance
AW-09	UA	E001	Lithium, total	mg/L	11/10/15 - 06/12/23	20	25	CB around T-S line	-0.0899	0.0710	Background	No Exceedance
AW-09	UA	E001	Mercury, total	mg/L	11/10/15 - 06/12/23	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
AW-09	UA	E001	Molybdenum, total	mg/L	11/10/15 - 06/12/23	20	0	CI around mean	0.0134	0.1	Standard	No Exceedance
AW-09	UA	E001	pH (field)	SU	11/10/15 - 06/12/23	21	0	CI around mean	6.8/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-09	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 06/12/23	20	0	CI around median	0.633	9.60	Background	No Exceedance
AW-09	UA	E001	Selenium, total	mg/L	11/10/15 - 06/12/23	20	60	CB around T-S line	-0.00401	0.05	Standard	No Exceedance
AW-09	UA	E001	Sulfate, total	mg/L	11/10/15 - 06/12/23	21	48	CB around linear reg	-15.8	400	Standard	No Exceedance
AW-09	UA	E001	Thallium, total	mg/L	11/10/15 - 06/12/23	15	93	CI around median	0.001	0.002	Standard	No Exceedance
AW-09	UA	E001	Total Dissolved Solids	mg/L	11/10/15 - 06/12/23	21	0	CB around T-S line	712	1,200	Standard	No Exceedance
AW-10	UA	E001	Antimony, total	mg/L	11/09/15 - 06/13/23	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-10	UA	E001	Arsenic, total	mg/L	11/09/15 - 06/13/23	21	0	CI around geomean	0.0076	0.0300	Background	No Exceedance
AW-10	UA	E001	Barium, total	mg/L	11/09/15 - 06/13/23	21	0	CI around median	0.98	2.07	Background	No Exceedance
AW-10	UA	E001	Beryllium, total	mg/L	11/09/15 - 06/13/23	21	76	CI around median	0.001	0.004	Standard	No Exceedance
AW-10	UA	E001	Boron, total	mg/L	11/09/15 - 06/13/23	22	0	CI around mean	0.46	2	Standard	No Exceedance
AW-10	UA	E001	Cadmium, total	mg/L	11/09/15 - 06/13/23	16	94	CI around median	0.001	0.005	Standard	No Exceedance
AW-10	UA	E001	Chloride, total	mg/L	11/09/15 - 06/13/23	22	0	CI around mean	87.3	200	Standard	No Exceedance
AW-10	UA	E001	Chromium, total	mg/L	11/09/15 - 06/13/23	21	38	CI around median	0.004	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 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	E001	Cobalt, total	mg/L	11/09/15 - 06/13/23	21	5	CI around geomean	0.00338	0.0280	Background	No Exceedance
AW-10	UA	E001	Fluoride, total	mg/L	11/09/15 - 06/13/23	22	96	CI around median	0.25	4.0	Standard	No Exceedance
AW-10	UA	E001	Lead, total	mg/L	11/09/15 - 06/13/23	21	14	CI around geomean	0.0017	0.0330	Background	No Exceedance
AW-10	UA	E001	Lithium, total	mg/L	11/09/15 - 06/13/23	21	0	CB around T-S line	-0.0329	0.0710	Background	No Exceedance
AW-10	UA	E001	Mercury, total	mg/L	11/09/15 - 06/13/23	16	94	CI around median	0.0002	0.002	Standard	No Exceedance
AW-10	UA	E001	Molybdenum, total	mg/L	11/09/15 - 06/13/23	21	29	CB around T-S line	-0.000917	0.1	Standard	No Exceedance
AW-10	UA	E001	pH (field)	SU	11/09/15 - 06/13/23	23	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-10	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 06/13/23	21	0	CI around mean	2.18	9.60	Background	No Exceedance
AW-10	UA	E001	Selenium, total	mg/L	11/09/15 - 06/13/23	21	62	CI around median	0.001	0.05	Standard	No Exceedance
AW-10	UA	E001	Sulfate, total	mg/L	11/09/15 - 06/13/23	22	77	CB around T-S line	0.225	400	Standard	No Exceedance
AW-10	UA	E001	Thallium, total	mg/L	11/09/15 - 06/13/23	16	94	CI around median	0.001	0.002	Standard	No Exceedance
AW-10	UA	E001	Total Dissolved Solids	mg/L	11/09/15 - 06/13/23	22	0	CI around median	1,100	1,200	Standard	No Exceedance
AW-11	UA	E001	Antimony, total	mg/L	11/09/15 - 06/13/23	15	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-11	UA	E001	Arsenic, total	mg/L	11/09/15 - 06/13/23	20	0	CI around mean	0.00942	0.0300	Background	No Exceedance
AW-11	UA	E001	Barium, total	mg/L	11/09/15 - 06/13/23	20	0	CI around geomean	0.871	2.07	Background	No Exceedance
AW-11	UA	E001	Beryllium, total	mg/L	11/09/15 - 06/13/23	20	75	CI around median	0.001	0.004	Standard	No Exceedance
AW-11	UA	E001	Boron, total	mg/L	11/09/15 - 06/13/23	21	0	CI around mean	0.219	2	Standard	No Exceedance
AW-11	UA	E001	Cadmium, total	mg/L	11/09/15 - 06/13/23	15	80	CI around median	0.001	0.005	Standard	No Exceedance
AW-11	UA	E001	Chloride, total	mg/L	11/09/15 - 06/13/23	21	0	CI around mean	31.1	200	Standard	No Exceedance
AW-11	UA	E001	Chromium, total	mg/L	11/09/15 - 06/13/23	20	45	CB around T-S line	-0.0209	0.1	Standard	No Exceedance
AW-11	UA	E001	Cobalt, total	mg/L	11/09/15 - 06/13/23	20	20	CB around T-S line	-0.0103	0.0280	Background	No Exceedance
AW-11	UA	E001	Fluoride, total	mg/L	11/09/15 - 06/13/23	21	86	CI around median	0.25	4.0	Standard	No Exceedance
AW-11	UA	E001	Lead, total	mg/L	11/09/15 - 06/13/23	20	35	CB around T-S line	-0.0148	0.0330	Background	No Exceedance
AW-11	UA	E001	Lithium, total	mg/L	11/09/15 - 06/13/23	20	15	CB around T-S line	-0.0269	0.0710	Background	No Exceedance
AW-11	UA	E001	Mercury, total	mg/L	11/09/15 - 06/13/23	15	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-11	UA	E001	Molybdenum, total	mg/L	11/09/15 - 06/13/23	20	5	CB around linear reg	-0.00162	0.1	Standard	No Exceedance
AW-11	UA	E001	pH (field)	SU	11/09/15 - 06/13/23	21	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 2, 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	E001	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 06/13/23	20	0	CI around mean	1.73	9.60	Background	No Exceedance
AW-11	UA	E001	Selenium, total	mg/L	11/09/15 - 06/13/23	20	65	CI around median	0.001	0.05	Standard	No Exceedance
AW-11	UA	E001	Sulfate, total	mg/L	11/09/15 - 06/13/23	21	62	CB around T-S line	-0.0244	400	Standard	No Exceedance
AW-11	UA	E001	Thallium, total	mg/L	11/09/15 - 06/13/23	15	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-11	UA	E001	Total Dissolved Solids	mg/L	11/09/15 - 06/13/23	21	0	CB around T-S line	961	1,200	Standard	No Exceedance
AW-14	UA	E001	Antimony, total	mg/L	02/11/21 - 06/13/23	9	89	CI around median	0.003	0.006	Standard	No Exceedance
AW-14	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	0.00745	0.0300	Background	No Exceedance
AW-14	UA	E001	Barium, total	mg/L	02/11/21 - 06/13/23	9	0	CB around linear reg	0.62	2.07	Background	No Exceedance
AW-14	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-14	UA	E001	Boron, total	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	0.17	2	Standard	No Exceedance
AW-14	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-14	UA	E001	Chloride, total	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	21.9	200	Standard	No Exceedance
AW-14	UA	E001	Chromium, total	mg/L	02/11/21 - 06/13/23	9	89	CI around median	0.004	0.1	Standard	No Exceedance
AW-14	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/13/23	9	0	CB around linear reg	-0.00451	0.0280	Background	No Exceedance
AW-14	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/13/23	9	78	CI around median	0.25	4.0	Standard	No Exceedance
AW-14	UA	E001	Lead, total	mg/L	02/11/21 - 06/13/23	9	67	CI around median	0.001	0.0330	Background	No Exceedance
AW-14	UA	E001	Lithium, total	mg/L	02/11/21 - 06/13/23	9	44	CI around mean	0.0189	0.0710	Background	No Exceedance
AW-14	UA	E001	Mercury, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-14	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/13/23	9	33	CI around geomean	0.00127	0.1	Standard	No Exceedance
AW-14	UA	E001	pH (field)	SU	02/11/21 - 06/13/23	9	0	CI around mean	6.8/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-14	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/13/23	9	0	CI around mean	1.78	9.60	Background	No Exceedance
AW-14	UA	E001	Selenium, total	mg/L	02/11/21 - 06/13/23	9	89	CI around median	0.001	0.05	Standard	No Exceedance
AW-14	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/13/23	9	22	CI around geomean	1.32	400	Standard	No Exceedance
AW-14	UA	E001	Thallium, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-14	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	893	1,200	Standard	No Exceedance
AW-15	UA	E001	Antimony, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-15	UA	E001	Arsenic, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	0.00203	0.0300	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 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	E001	Barium, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	1.54	2.07	Background	No Exceedance
AW-15	UA	E001	Beryllium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-15	UA	E001	Boron, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	0.315	2	Standard	No Exceedance
AW-15	UA	E001	Cadmium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-15	UA	E001	Chloride, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	33	200	Standard	No Exceedance
AW-15	UA	E001	Chromium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-15	UA	E001	Cobalt, total	mg/L	02/12/21 - 06/12/23	7	86	CI around median	0.002	0.0280	Background	No Exceedance
AW-15	UA	E001	Fluoride, total	mg/L	02/12/21 - 06/12/23	7	71	CI around median	0.25	4.0	Standard	No Exceedance
AW-15	UA	E001	Lead, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-15	UA	E001	Lithium, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	0.0281	0.0710	Background	No Exceedance
AW-15	UA	E001	Mercury, total	mg/L	02/12/21 - 06/12/23	7	86	CI around median	0.0002	0.002	Standard	No Exceedance
AW-15	UA	E001	Molybdenum, total	mg/L	02/12/21 - 06/12/23	7	71	CI around median	0.001	0.1	Standard	No Exceedance
AW-15	UA	E001	pH (field)	SU	02/12/21 - 06/12/23	6	0	CI around mean	6.6/6.9	6.3/9.0	Background/Standard	No Exceedance
AW-15	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 06/12/23	7	0	CI around mean	2.01	9.60	Background	No Exceedance
AW-15	UA	E001	Selenium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-15	UA	E001	Sulfate, total	mg/L	02/12/21 - 06/12/23	7	86	Most recent sample	1	400	Standard	No Exceedance
AW-15	UA	E001	Thallium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-15	UA	E001	Total Dissolved Solids	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	827	1,200	Standard	No Exceedance
AW-15S	PMP	E001	Antimony, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-15S	PMP	E001	Arsenic, total	mg/L	02/12/21 - 06/12/23	10	50	CI around median	0.001	0.0300	Background	No Exceedance
AW-15S	PMP	E001	Barium, total	mg/L	02/12/21 - 06/12/23	10	0	CB around T-S line	-0.528	2.07	Background	No Exceedance
AW-15S	PMP	E001	Beryllium, total	mg/L	02/12/21 - 06/12/23	10	90	CI around median	0.001	0.004	Standard	No Exceedance
AW-15S	PMP	E001	Boron, total	mg/L	02/12/21 - 06/12/23	10	0	CI around mean	5.43	2	Standard	Exceedance
AW-15S	PMP	E001	Cadmium, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-15S	PMP	E001	Chloride, total	mg/L	02/12/21 - 06/12/23	10	0	CB around linear reg	18.8	200	Standard	No Exceedance
AW-15S	PMP	E001	Chromium, total	mg/L	02/12/21 - 06/12/23	10	90	CI around median	0.004	0.1	Standard	No Exceedance
AW-15S	PMP	E001	Cobalt, total	mg/L	02/12/21 - 06/12/23	10	90	CI around median	0.002	0.0280	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 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	E001	Fluoride, total	mg/L	02/12/21 - 06/12/23	10	40	CI around median	0.25	4.0	Standard	No Exceedance
AW-15S	PMP	E001	Lead, total	mg/L	02/12/21 - 06/12/23	10	80	CI around median	0.001	0.0330	Background	No Exceedance
AW-15S	PMP	E001	Lithium, total	mg/L	02/12/21 - 06/12/23	10	80	CI around median	0.02	0.0710	Background	No Exceedance
AW-15S	PMP	E001	Mercury, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-15S	PMP	E001	Molybdenum, total	mg/L	02/12/21 - 06/12/23	10	0	CB around linear reg	0.00181	0.1	Standard	No Exceedance
AW-15S	PMP	E001	pH (field)	SU	02/12/21 - 06/12/23	10	0	CB around linear reg	6.3/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-15S	PMP	E001	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 06/12/23	9	0	CI around mean	0.184	9.60	Background	No Exceedance
AW-15S	PMP	E001	Selenium, total	mg/L	02/12/21 - 06/12/23	10	40	CI around mean	0.000931	0.05	Standard	No Exceedance
AW-15S	PMP	E001	Sulfate, total	mg/L	02/12/21 - 06/12/23	10	0	CB around linear reg	480	400	Standard	Exceedance
AW-15S	PMP	E001	Thallium, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-15S	PMP	E001	Total Dissolved Solids	mg/L	02/12/21 - 06/12/23	10	0	CI around mean	1,160	1,200	Standard	No Exceedance
AW-16	UA	E001	Antimony, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-16	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/12/23	10	10	CB around linear reg	0.000917	0.0300	Background	No Exceedance
AW-16	UA	E001	Barium, total	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	1.19	2.07	Background	No Exceedance
AW-16	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-16	UA	E001	Boron, total	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	0.472	2	Standard	No Exceedance
AW-16	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-16	UA	E001	Chloride, total	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	49.5	200	Standard	No Exceedance
AW-16	UA	E001	Chromium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-16	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-16	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.25	4.0	Standard	No Exceedance
AW-16	UA	E001	Lead, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-16	UA	E001	Lithium, total	mg/L	02/11/21 - 06/12/23	10	0	CI around median	0.036	0.0710	Background	No Exceedance
AW-16	UA	E001	Mercury, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-16	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.1	Standard	No Exceedance
AW-16	UA	E001	pH (field)	SU	02/11/21 - 06/12/23	10	0	CI around median	6.5/6.8	6.3/9.0	Background/Standard	No Exceedance
AW-16	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/12/23	10	0	CI around mean	4.02	9.60	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 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	E001	Selenium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-16	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/12/23	10	90	CI around median	1	400	Standard	No Exceedance
AW-16	UA	E001	Thallium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-16	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	1,030	1,200	Standard	No Exceedance
AW-17	UA	E001	Antimony, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-17	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.00485	0.0300	Background	No Exceedance
AW-17	UA	E001	Barium, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	1.05	2.07	Background	No Exceedance
AW-17	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-17	UA	E001	Boron, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.414	2	Standard	No Exceedance
AW-17	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-17	UA	E001	Chloride, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	51.7	200	Standard	No Exceedance
AW-17	UA	E001	Chromium, total	mg/L	02/11/21 - 06/13/23	10	60	CI around median	0.004	0.1	Standard	No Exceedance
AW-17	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.00197	0.0280	Background	No Exceedance
AW-17	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/13/23	10	90	CI around median	0.25	4.0	Standard	No Exceedance
AW-17	UA	E001	Lead, total	mg/L	02/11/21 - 06/13/23	10	60	CI around median	0.001	0.0330	Background	No Exceedance
AW-17	UA	E001	Lithium, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.0336	0.0710	Background	No Exceedance
AW-17	UA	E001	Mercury, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-17	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/13/23	10	30	CI around mean	0.00102	0.1	Standard	No Exceedance
AW-17	UA	E001	pH (field)	SU	02/11/21 - 06/13/23	10	0	CI around mean	6.6/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-17	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/13/23	10	0	CI around mean	2.59	9.60	Background	No Exceedance
AW-17	UA	E001	Selenium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-17	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	1	400	Standard	No Exceedance
AW-17	UA	E001	Thallium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-17	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	797	1,200	Standard	No Exceedance
AW-18	UA	E001	Antimony, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-18	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.00334	0.0300	Background	No Exceedance
AW-18	UA	E001	Barium, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	0.962	2.07	Background	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-18	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-18	UA	E001	Boron, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.614	2	Standard	No Exceedance
AW-18	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-18	UA	E001	Chloride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	70.9	200	Standard	No Exceedance
AW-18	UA	E001	Chromium, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.004	0.1	Standard	No Exceedance
AW-18	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/14/23	10	70	CI around median	0.002	0.0280	Background	No Exceedance
AW-18	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/14/23	10	40	CI around median	0.25	4.0	Standard	No Exceedance
AW-18	UA	E001	Lead, total	mg/L	02/11/21 - 06/14/23	10	80	CI around median	0.001	0.0330	Background	No Exceedance
AW-18	UA	E001	Lithium, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	-0.0455	0.0710	Background	No Exceedance
AW-18	UA	E001	Mercury, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-18	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	-0.0197	0.1	Standard	No Exceedance
AW-18	UA	E001	pH (field)	SU	02/11/21 - 06/14/23	10	0	CI around mean	6.7/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-18	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/14/23	10	0	CI around mean	2.08	9.60	Background	No Exceedance
AW-18	UA	E001	Selenium, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.001	0.05	Standard	No Exceedance
AW-18	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	3.71	400	Standard	No Exceedance
AW-18	UA	E001	Thallium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-18	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	770	1,200	Standard	No Exceedance
AW-19	UA	E001	Antimony, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-19	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.0112	0.0300	Background	No Exceedance
AW-19	UA	E001	Barium, total	mg/L	02/11/21 - 06/14/23	10	0	CI around median	0.18	2.07	Background	No Exceedance
AW-19	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-19	UA	E001	Boron, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	2.47	2	Standard	Exceedance
AW-19	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-19	UA	E001	Chloride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	76.5	200	Standard	No Exceedance
AW-19	UA	E001	Chromium, total	mg/L	02/11/21 - 06/14/23	10	70	CI around median	0.004	0.1	Standard	No Exceedance
AW-19	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/14/23	10	70	CI around median	0.002	0.0280	Background	No Exceedance
AW-19	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.284	4.0	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 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	E001	Lead, total	mg/L	02/11/21 - 06/14/23	10	40	CI around geomean	0.00101	0.0330	Background	No Exceedance
AW-19	UA	E001	Lithium, total	mg/L	02/11/21 - 06/14/23	10	60	CI around median	0.02	0.0710	Background	No Exceedance
AW-19	UA	E001	Mercury, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-19	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/14/23	10	0	CI around geomean	0.00327	0.1	Standard	No Exceedance
AW-19	UA	E001	pH (field)	SU	02/11/21 - 06/14/23	10	0	CI around mean	6.8/7.2	6.3/9.0	Background/Standard	No Exceedance
AW-19	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/14/23	10	0	CI around mean	0.267	9.60	Background	No Exceedance
AW-19	UA	E001	Selenium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-19	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	43.4	400	Standard	No Exceedance
AW-19	UA	E001	Thallium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-19	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	542	1,200	Standard	No Exceedance
AW-21	UA	E001	Antimony, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-21	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/14/23	10	10	CB around linear reg	0.00113	0.0300	Background	No Exceedance
AW-21	UA	E001	Barium, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.0617	2.07	Background	No Exceedance
AW-21	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-21	UA	E001	Boron, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	10.3	2	Standard	Exceedance
AW-21	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-21	UA	E001	Chloride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around median	93	200	Standard	No Exceedance
AW-21	UA	E001	Chromium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-21	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-21	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	0.0598	4.0	Standard	No Exceedance
AW-21	UA	E001	Lead, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.001	0.0330	Background	No Exceedance
AW-21	UA	E001	Lithium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-21	UA	E001	Mercury, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-21	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.0157	0.1	Standard	No Exceedance
AW-21	UA	E001	pH (field)	SU	02/11/21 - 06/14/23	10	0	CI around mean	7.0/7.5	6.3/9.0	Background/Standard	No Exceedance
AW-21	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/14/23	10	0	CI around mean	0.345	9.60	Background	No Exceedance
AW-21	UA	E001	Selenium, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.001	0.05	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 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	E001	Sulfate, total	mg/L	02/11/21 - 06/14/23	10	0	CI around median	230	400	Standard	No Exceedance
AW-21	UA	E001	Thallium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-21	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	641	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 2, 2023**

845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW-01	Supplemental	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Arsenic, total	0.00790	mg/L
APW-01	Supplemental	E001	06/14/2023	Barium, total	0.0640	mg/L
APW-01	Supplemental	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Boron, total	1.10 J+	mg/L
APW-01	Supplemental	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Calcium, total	170	mg/L
APW-01	Supplemental	E001	06/14/2023	Chloride, total	120	mg/L
APW-01	Supplemental	E001	06/14/2023	Chromium, total	0.0038 J	mg/L
APW-01	Supplemental	E001	06/14/2023	Cobalt, total	0.00049 J	mg/L
APW-01	Supplemental	E001	06/14/2023	Dissolved Oxygen	0.150	mg/L
APW-01	Supplemental	E001	06/14/2023	Fluoride, total	0.174 J	mg/L
APW-01	Supplemental	E001	06/14/2023	Lead, total	0.00022 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Lithium, total	0.0077 J	mg/L
APW-01	Supplemental	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Molybdenum, total	0.00130	mg/L
APW-01	Supplemental	E001	06/14/2023	Oxidation Reduction Potential	-197	mV
APW-01	Supplemental	E001	06/14/2023	pH (field)	7.0	SU
APW-01	Supplemental	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Specific Conductance @ 25C (field)	1,479	micromhos/cm
APW-01	Supplemental	E001	06/14/2023	Sulfate, total	290	mg/L
APW-01	Supplemental	E001	06/14/2023	Temperature	16.9	degrees C
APW-01	Supplemental	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Total Dissolved Solids	1,000 J+	mg/L
APW-01	Supplemental	E001	06/14/2023	Turbidity, field	161	NTU
AW-20	Supplemental	E001	06/15/2023	Antimony, total	0.00043 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Arsenic, total	0.0130	mg/L
AW-20	Supplemental	E001	06/15/2023	Barium, total	0.140	mg/L
AW-20	Supplemental	E001	06/15/2023	Beryllium, total	0.00059 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Boron, total	3.10	mg/L
AW-20	Supplemental	E001	06/15/2023	Cadmium, total	0.00074 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Calcium, total	160	mg/L
AW-20	Supplemental	E001	06/15/2023	Chloride, total	85.0	mg/L
AW-20	Supplemental	E001	06/15/2023	Chromium, total	0.0028 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Cobalt, total	0.00200	mg/L
AW-20	Supplemental	E001	06/15/2023	Dissolved Oxygen	1.90	mg/L
AW-20	Supplemental	E001	06/15/2023	Fluoride, total	0.242 J	mg/L
AW-20	Supplemental	E001	06/15/2023	Lead, total	0.00140	mg/L
AW-20	Supplemental	E001	06/15/2023	Lithium, total	0.014 J	mg/L
AW-20	Supplemental	E001	06/15/2023	Mercury, total	0.00014 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Molybdenum, total	0.00270	mg/L
AW-20	Supplemental	E001	06/15/2023	Oxidation Reduction Potential	-178	mV
AW-20	Supplemental	E001	06/15/2023	pH (field)	7.0	SU
AW-20	Supplemental	E001	06/15/2023	Selenium, total	0.00074 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Specific Conductance @ 25C (field)	1,344	micromhos/cm
AW-20	Supplemental	E001	06/15/2023	Sulfate, total	57.0	mg/L

**TABLE 3.
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023**

845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-20	Supplemental	E001	06/15/2023	Temperature	16	degrees C
AW-20	Supplemental	E001	06/15/2023	Thallium, total	0.00038 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Total Dissolved Solids	840	mg/L
AW-20	Supplemental	E001	06/15/2023	Turbidity, field	44.9	NTU
AW-23	Supplemental	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Arsenic, total	0.00085 J	mg/L
AW-23	Supplemental	E001	06/14/2023	Barium, total	0.0310 J+	mg/L
AW-23	Supplemental	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Boron, total	0.490 J+	mg/L
AW-23	Supplemental	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Calcium, total	140	mg/L
AW-23	Supplemental	E001	06/14/2023	Chloride, total	41.0	mg/L
AW-23	Supplemental	E001	06/14/2023	Chromium, total	0.0028 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Cobalt, total	0.00076 J	mg/L
AW-23	Supplemental	E001	06/14/2023	Dissolved Oxygen	0.270	mg/L
AW-23	Supplemental	E001	06/14/2023	Fluoride, total	0.242 J	mg/L
AW-23	Supplemental	E001	06/14/2023	Lead, total	0.00022 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Lithium, total	0.01 J	mg/L
AW-23	Supplemental	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Molybdenum, total	0.00092 J	mg/L
AW-23	Supplemental	E001	06/14/2023	Oxidation Reduction Potential	-32.5	mV
AW-23	Supplemental	E001	06/14/2023	pH (field)	6.9	SU
AW-23	Supplemental	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Specific Conductance @ 25C (field)	1,113	micromhos/cm
AW-23	Supplemental	E001	06/14/2023	Sulfate, total	200	mg/L
AW-23	Supplemental	E001	06/14/2023	Temperature	16.1	degrees C
AW-23	Supplemental	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Total Dissolved Solids	790 J+	mg/L
AW-23	Supplemental	E001	06/14/2023	Turbidity, field	35.3	NTU
EMW-05	Supplemental	E001	06/15/2023	Antimony, total	0.00043 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Arsenic, total	0.00110	mg/L
EMW-05	Supplemental	E001	06/15/2023	Barium, total	0.0700	mg/L
EMW-05	Supplemental	E001	06/15/2023	Beryllium, total	0.00059 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Boron, total	0.750	mg/L
EMW-05	Supplemental	E001	06/15/2023	Cadmium, total	0.00074 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Calcium, total	190	mg/L
EMW-05	Supplemental	E001	06/15/2023	Chloride, total	23.0	mg/L
EMW-05	Supplemental	E001	06/15/2023	Chromium, total	0.0028 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Cobalt, total	0.00048 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Dissolved Oxygen	3.84	mg/L
EMW-05	Supplemental	E001	06/15/2023	Fluoride, total	0.2 J	mg/L
EMW-05	Supplemental	E001	06/15/2023	Lead, total	0.00027 J	mg/L
EMW-05	Supplemental	E001	06/15/2023	Lithium, total	0.0063 J	mg/L
EMW-05	Supplemental	E001	06/15/2023	Mercury, total	0.00014 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Molybdenum, total	0.00200	mg/L
EMW-05	Supplemental	E001	06/15/2023	Oxidation Reduction Potential	-76.6	mV

TABLE 3.
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
 EDWARDS POWER PLANT
 ASH POND
 BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
EMW-05	Supplemental	E001	06/15/2023	pH (field)	7.0	SU
EMW-05	Supplemental	E001	06/15/2023	Selenium, total	0.00074 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Specific Conductance @ 25C (field)	1,336	micromhos/cm
EMW-05	Supplemental	E001	06/15/2023	Sulfate, total	120	mg/L
EMW-05	Supplemental	E001	06/15/2023	Temperature	13.3	degrees C
EMW-05	Supplemental	E001	06/15/2023	Thallium, total	0.00038 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Total Dissolved Solids	0 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Turbidity, field	3.09	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 2, 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	E001	Antimony, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW-01	UA	E001	Arsenic, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.00113	0.0300	Background	No Exceedance
APW-01	UA	E001	Barium, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.00882	2.07	Background	No Exceedance
APW-01	UA	E001	Beryllium, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW-01	UA	E001	Boron, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.406	2	Standard	No Exceedance
APW-01	UA	E001	Cadmium, total	mg/L	06/17/21 - 06/14/23	4	75	CI around median (Last Sample, n<7)	0.001	0.005	Standard	No Exceedance
APW-01	UA	E001	Chloride, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	78.8	200	Standard	No Exceedance
APW-01	UA	E001	Chromium, total	mg/L	06/17/21 - 06/14/23	4	25	CI around mean	-0.00291	0.1	Standard	No Exceedance
APW-01	UA	E001	Cobalt, total	mg/L	06/17/21 - 06/14/23	4	25	CI around mean	-0.00237	0.0280	Background	No Exceedance
APW-01	UA	E001	Fluoride, total	mg/L	06/17/21 - 06/14/23	4	50	CI around mean	0.209	4.0	Standard	No Exceedance
APW-01	UA	E001	Lead, total	mg/L	06/17/21 - 06/14/23	4	25	CI around mean	-0.00645	0.0330	Background	No Exceedance
APW-01	UA	E001	Lithium, total	mg/L	06/17/21 - 06/14/23	4	50	CI around mean	0.0132	0.0710	Background	No Exceedance
APW-01	UA	E001	Mercury, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW-01	UA	E001	Molybdenum, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.000863	0.1	Standard	No Exceedance
APW-01	UA	E001	pH (field)	SU	06/17/21 - 06/14/23	4	0	CI around mean	6.7/7.1	6.3/9.0	Background/Standard	No Exceedance
APW-01	UA	E001	Selenium, total	mg/L	06/17/21 - 06/14/23	4	50	CI around mean	0.000538	0.05	Standard	No Exceedance
APW-01	UA	E001	Sulfate, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	271	400	Standard	No Exceedance
APW-01	UA	E001	Thallium, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW-01	UA	E001	Total Dissolved Solids	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	663	1,200	Standard	No Exceedance
AW-20	UA	E001	Antimony, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-20	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	0.0111	0.0300	Background	No Exceedance
AW-20	UA	E001	Barium, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	0.125	2.07	Background	No Exceedance
AW-20	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-20	UA	E001	Boron, total	mg/L	02/11/21 - 06/15/23	6	0	CI around median (Last Sample, n<7)	3.1	2	Standard	Exceedance
AW-20	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-20	UA	E001	Chloride, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	85.1	200	Standard	No Exceedance
AW-20	UA	E001	Chromium, total	mg/L	02/11/21 - 06/15/23	6	83	CI around median (Last Sample, n<7)	0.004	0.1	Standard	No Exceedance

TABLE 4.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 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	E001	Cobalt, total	mg/L	02/11/21 - 06/15/23	6	50	CI around median (Last Sample, n<7)	0.002	0.0280	Background	No Exceedance
AW-20	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/15/23	6	17	CI around mean	0.244	4.0	Standard	No Exceedance
AW-20	UA	E001	Lead, total	mg/L	02/11/21 - 06/15/23	6	67	CI around median (Last Sample, n<7)	0.0014	0.0330	Background	No Exceedance
AW-20	UA	E001	Lithium, total	mg/L	02/11/21 - 06/15/23	6	67	CI around median (Last Sample, n<7)	0.02	0.0710	Background	No Exceedance
AW-20	UA	E001	Mercury, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-20	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	0.00229	0.1	Standard	No Exceedance
AW-20	UA	E001	pH (field)	SU	02/11/21 - 06/15/23	6	0	CI around mean	6.5/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-20	UA	E001	Selenium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-20	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	36.7	400	Standard	No Exceedance
AW-20	UA	E001	Thallium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-20	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	721	1,200	Standard	No Exceedance
AW-23	UA	E001	Antimony, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-23	UA	E001	Arsenic, total	mg/L	11/21/22 - 06/14/23	4	75	CI around median (Last Sample, n<7)	0.001	0.0300	Background	No Exceedance
AW-23	UA	E001	Barium, total	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	0.0233	2.07	Background	No Exceedance
AW-23	UA	E001	Beryllium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-23	UA	E001	Boron, total	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	0.416	2	Standard	No Exceedance
AW-23	UA	E001	Cadmium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-23	UA	E001	Chloride, total	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	35.4	200	Standard	No Exceedance
AW-23	UA	E001	Chromium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-23	UA	E001	Cobalt, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-23	UA	E001	Fluoride, total	mg/L	11/21/22 - 06/14/23	4	25	CI around mean	0.222	4.0	Standard	No Exceedance
AW-23	UA	E001	Lead, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-23	UA	E001	Lithium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-23	UA	E001	Mercury, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-23	UA	E001	Molybdenum, total	mg/L	11/21/22 - 06/14/23	4	50	CI around mean	0.000538	0.1	Standard	No Exceedance
AW-23	UA	E001	pH (field)	SU	11/21/22 - 06/14/23	4	0	CI around mean	6.5/7.2	6.3/9.0	Background/Standard	No Exceedance
AW-23	UA	E001	Selenium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.05	Standard	No Exceedance

TABLE 4.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 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	E001	Sulfate, total	mg/L	11/21/22 - 06/14/23	4	0	CI around median (Last Sample, n<7)	200	400	Standard	No Exceedance
AW-23	UA	E001	Thallium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-23	UA	E001	Total Dissolved Solids	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	686	1,200	Standard	No Exceedance
EMW-05	UA	E001	Antimony, total	mg/L	11/18/22 - 06/15/23	4	100	All ND - Last	0.003	0.006	Standard	No Exceedance
EMW-05	UA	E001	Arsenic, total	mg/L	11/18/22 - 06/15/23	4	0	CI around median (Last Sample, n<7)	0.0011	0.0300	Background	No Exceedance
EMW-05	UA	E001	Barium, total	mg/L	11/18/22 - 06/15/23	4	0	CI around median (Last Sample, n<7)	0.07	2.07	Background	No Exceedance
EMW-05	UA	E001	Beryllium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.001	0.004	Standard	No Exceedance
EMW-05	UA	E001	Boron, total	mg/L	11/18/22 - 06/15/23	4	0	CI around mean	0.152	2	Standard	No Exceedance
EMW-05	UA	E001	Cadmium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.001	0.005	Standard	No Exceedance
EMW-05	UA	E001	Chloride, total	mg/L	11/18/22 - 06/15/23	4	0	CI around mean	15.4	200	Standard	No Exceedance
EMW-05	UA	E001	Chromium, total	mg/L	11/18/22 - 06/15/23	4	50	CI around median (Last Sample, n<7)	0.004	0.1	Standard	No Exceedance
EMW-05	UA	E001	Cobalt, total	mg/L	11/18/22 - 06/15/23	4	25	CI around median (Last Sample, n<7)	0.002	0.0280	Background	No Exceedance
EMW-05	UA	E001	Fluoride, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.25	4.0	Standard	No Exceedance
EMW-05	UA	E001	Lead, total	mg/L	11/18/22 - 06/15/23	4	50	CI around geomean	6.97e-05	0.0330	Background	No Exceedance
EMW-05	UA	E001	Lithium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.02	0.0710	Background	No Exceedance
EMW-05	UA	E001	Mercury, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.0002	0.002	Standard	No Exceedance
EMW-05	UA	E001	Molybdenum, total	mg/L	11/18/22 - 06/15/23	4	0	CI around mean	-3.82e-05	0.1	Standard	No Exceedance
EMW-05	UA	E001	pH (field)	SU	12/15/22 - 06/15/23	3	0	Most recent sample	7.0/7.0	6.3/9.0	Background/Standard	No Exceedance
EMW-05	UA	E001	Selenium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.001	0.05	Standard	No Exceedance
EMW-05	UA	E001	Sulfate, total	mg/L	11/18/22 - 06/15/23	4	0	CI around median (Last Sample, n<7)	120	400	Standard	No Exceedance
EMW-05	UA	E001	Thallium, total	mg/L	11/18/22 - 06/15/23	4	100	All ND - Last	0.001	0.002	Standard	No Exceedance
EMW-05	UA	E001	Total Dissolved Solids	mg/L	11/18/22 - 06/15/23	4	25	CI around median (Last Sample, n<7)	26	1,200	Standard	No Exceedance

TABLE 4.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023

845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Notes:

Compliance Result:

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

Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

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

Statistical Calculation = method used to calculate the statistical result:

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

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

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

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

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

GWPS = Groundwater Protection Standard

GWPS Source:

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

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

FIGURES



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 2, 2023**

**ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 2, 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	06/12/2023	5.45	437.82
AP07S	Compliance	06/12/2023	25.48	435.59
AW-01	Compliance	06/12/2023	10.09	454.33
AW-05	Compliance	06/15/2023	[9.20]	[434.17]
AW-06	Compliance	06/12/2023	27.59	433.97
AW-08	Background	06/12/2023	23.99	438.54
AW-09	Compliance	06/12/2023	26.64	434.80
AW-10	Compliance	06/12/2023	2.19	437.73
AW-11	Compliance	06/12/2023	5.74	434.12
AW-14	Compliance	06/12/2023	7.33	432.07
AW-15	Compliance	06/12/2023	8.09	433.41
AW-15S	Compliance	06/12/2023	9.94	430.76
AW-16	Compliance	06/12/2023	24.69	437.09
AW-17	Compliance	06/12/2023	25.42	436.67
AW-18	Compliance	06/12/2023	28.14	434.50
AW-19	Compliance	06/12/2023	14.69	446.04
AW-21	Compliance	06/12/2023	18.45	442.15
XPW01A	Water Level	06/12/2023	12.93	451.22
XPW02	Water Level	06/12/2023	22.09	451.69
XPW03	Water Level	06/12/2023	18.20	447.83
SG-01	Water Level	06/12/2023	NA	441.50

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.

NA = not available/not applicable

NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA
SHEETS QUARTER 2, 2023**



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

August 24, 2023

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

Dear Brian Voelker:

Please find enclosed the **revised** 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.

Gail Schindler

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GF02086

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
YES	Case narrative provided

Work Order GF02088

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
YES	Case narrative provided

Work Order GF02645

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 GF02677

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 GF02896

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 GF02943

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

ANALYTICAL RESULTS

Sample: GF02088-01
Name: AW-09
Matrix: Ground Water - Grab

Sampled: 06/12/23 14:05
Received: 06/13/23 16:51
PO #: 1940007191

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	0.230 J	pCi/L			1	0.49	07/21/23 16:40		904.0 903.0
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Sample: GF02088-02
Name: AW-15
Matrix: Ground Water - Grab

Sampled: 06/12/23 14:35
Received: 06/13/23 16:51
PO #: 1940007191

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	3.8	pCi/L			1	0.508	07/21/23 16:40		904.0 903.0
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Sample: GF02088-03
Name: AW-15S
Matrix: Ground Water - Grab

Sampled: 06/12/23 13:29
Received: 06/13/23 16:51
PO #: 1940007191

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	0.203 U	pCi/L			1	0.713	07/21/23 16:40		904.0 903.0
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Sample: GF02088-04
Name: AW-16
Matrix: Ground Water - Grab

Sampled: 06/12/23 15:52
Received: 06/13/23 16:51
PO #: 1940007191

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	3.74	pCi/L			1	0.538	07/21/23 16:40		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF02088-06
Name: AW-10
Matrix: Ground Water - Grab

Sampled: 06/13/23 15:20
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.95	pCi/L			1	0.667	07/21/23 16:40		904.0 903.0

Sample: GF02088-07
Name: AW-10 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 06/13/23 15:20
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.79	pCi/L			1	0.672	07/21/23 16:40		904.0 903.0

Sample: GF02088-08
Name: AW-11
Matrix: Ground Water - Grab

Sampled: 06/13/23 12:54
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.29	pCi/L			1	0.744	07/21/23 16:40		904.0 903.0

Sample: GF02088-09
Name: AW-14
Matrix: Ground Water - Grab

Sampled: 06/13/23 11:20
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	3.46	pCi/L			1	0.667	07/21/23 16:40		904.0 903.0

ANALYTICAL RESULTS

Sample: GF02088-10
Name: AW-17
Matrix: Ground Water - Grab

Sampled: 06/13/23 15:20
Received: 06/13/23 16:51
PO #: 1940007191

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	2.97	pCi/L			1	0.671	07/21/23 16:40		904.0 903.0
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Sample: GF02677-01
Name: AP05S
Matrix: Ground Water - Grab

Sampled: 06/14/23 10:34
Received: 06/14/23 16:54
PO #: 1940007191

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	4.53	pCi/L			1	1.07	07/20/23 16:47		904.0 903.0
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Sample: GF02677-02
Name: AW-01
Matrix: Ground Water - Grab

Sampled: 06/14/23 12:35
Received: 06/14/23 16:54
PO #: 1940007191

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	0.773	pCi/L			1	0.725	07/20/23 16:47		904.0 903.0
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Sample: GF02677-03
Name: AW-06
Matrix: Ground Water - Grab

Sampled: 06/14/23 10:33
Received: 06/14/23 16:54
PO #: 1940007191

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	0.91	pCi/L			1	0.54	07/20/23 16:47		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF02677-04
Name: AW-08
Matrix: Ground Water - Grab

Sampled: 06/14/23 14:24
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.815	pCi/L			1	0.704	07/20/23 16:47		904.0 903.0

Sample: GF02677-05
Name: AW-18
Matrix: Ground Water - Grab

Sampled: 06/14/23 12:08
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.92	pCi/L			1	0.568	07/20/23 16:47		904.0 903.0

Sample: GF02677-06
Name: AW-19
Matrix: Ground Water - Grab

Sampled: 06/14/23 13:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.471 J	pCi/L			1	0.52	07/21/23 16:40		904.0 903.0

Sample: GF02677-07
Name: AW-19 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 06/14/23 13:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.04	pCi/L			1	0.494	07/21/23 16:40		904.0 903.0

ANALYTICAL RESULTS

Sample: GF02677-08
Name: AW-21
Matrix: Ground Water - Grab

Sampled: 06/14/23 15:40
Received: 06/14/23 16:54
PO #: 1940007191

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	0.326 J	pCi/L			1	0.573	07/21/23 16:40		904.0 903.0
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Sample: GF02943-01
Name: AP07S
Matrix: Ground Water - Grab

Sampled: 06/15/23 11:03
Received: 06/15/23 15:22
PO #: 1940007191

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

Rad 226 and 228-Subcontract	1.2	pCi/L			1	1.19	07/20/23 16:47		904.0 903.0
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Sample: GF02943-02
Name: AW-05
Matrix: Ground Water - Grab

Sampled: 06/15/23 11:31
Received: 06/15/23 15:22
PO #: 1940007191

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	3.09	pCi/L			1	1.22	07/20/23 16:47		904.0 903.0
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ANALYTICAL RESULTS

ANALYTICAL RESULTS

Sample: GF02086-01
Name: AW-09
Matrix: Ground Water - Grab

Sampled: 06/12/23 14:05
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	29	mg/L	Q3	06/13/23 10:20	5	5.0	06/13/23 10:20	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/13/23 09:26	1	0.250	06/13/23 09:26	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/13/23 09:26	1	1.0	06/13/23 09:26	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	26.65	Feet		06/12/23 14:05	1		06/12/23 14:05	FIELD	Field*
Dissolved oxygen, Field	1.7	mg/L		06/12/23 14:05	1		06/12/23 14:05	FIELD	Field*
Oxidation Reduction Potential	-122	mV		06/12/23 14:05	1	-500	06/12/23 14:05	FIELD	Field*
pH, Field Measured	6.89	pH Units		06/12/23 14:05	1		06/12/23 14:05	FIELD	Field*
Specific Conductance, Field Measured	1550	umhos/cm		06/12/23 14:05	1		06/12/23 14:05	FIELD	Field*
Temperature, Field Measured	16.2	°C		06/12/23 14:05	1		06/12/23 14:05	FIELD	Field*
Turbidity, Field Measured	67.2	NTU		06/12/23 14:05	1	0.00	06/12/23 14:05	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	790	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	790	mg/L		06/13/23 14:44	1	26	06/13/23 14:44	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 08:10	JMW	EPA 6020A
Arsenic	10	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Barium	290	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Boron	260	ug/L		06/15/23 07:26	5	10	06/26/23 08:10	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Calcium	120	mg/L		06/15/23 07:26	5	0.20	06/26/23 08:10	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 08:10	JMW	EPA 6020A
Cobalt	2.2	ug/L		06/15/23 07:26	5	2.0	06/26/23 08:10	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Magnesium	51	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:10	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 08:10	JMW	EPA 6020A
Molybdenum	21	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Potassium	2.1	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:10	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Sodium	130	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:10	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02086-01
Name: AW-09
Matrix: Ground Water - Grab

Sampled: 06/12/23 14:05
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Lithium	< 20	ug/L		06/15/23 07:26	1	20	06/20/23 12:39	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02086-02
Name: AW-15
Matrix: Ground Water - Grab

Sampled: 06/12/23 14:35
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	35	mg/L		06/13/23 12:08	10	10	06/13/23 12:08	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/13/23 11:50	1	0.250	06/13/23 11:50	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/13/23 11:50	1	1.0	06/13/23 11:50	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	8.48	Feet		06/12/23 13:07	1		06/12/23 13:07	FIELD	Field*
Dissolved oxygen, Field	0.27	mg/L		06/12/23 13:07	1		06/12/23 13:07	FIELD	Field*
Oxidation Reduction Potential	-101	mV		06/12/23 13:07	1	-500	06/12/23 13:07	FIELD	Field*
pH, Field Measured	6.63	pH Units		06/12/23 13:07	1		06/12/23 13:07	FIELD	Field*
Specific Conductance, Field Measured	1970	umhos/cm		06/12/23 13:07	1		06/12/23 13:07	FIELD	Field*
Temperature, Field Measured	17.4	°C		06/12/23 13:07	1		06/12/23 13:07	FIELD	Field*
Turbidity, Field Measured	46.5	NTU		06/12/23 13:07	1	0.00	06/12/23 13:07	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	1100	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1400	mg/L		06/13/23 14:44	1	26	06/13/23 14:44	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 08:14	JMW	EPA 6020A
Arsenic	2.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Barium	1900	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Boron	360	ug/L		06/15/23 07:26	5	10	06/26/23 08:14	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Calcium	140	mg/L		06/15/23 07:26	5	0.20	06/26/23 08:14	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 08:14	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/15/23 07:26	5	2.0	06/26/23 08:14	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Magnesium	58	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:14	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 08:14	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Potassium	4.2	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:14	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Sodium	210	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:14	JMW	EPA 6020A



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

ANALYTICAL RESULTS

Sample: GF02086-02
Name: AW-15
Matrix: Ground Water - Grab

Sampled: 06/12/23 14:35
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Lithium	30	ug/L		06/15/23 07:26	1	20	06/20/23 12:41	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02086-03
Name: AW-15S
Matrix: Ground Water - Grab

Sampled: 06/12/23 13:29
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	31	mg/L		06/13/23 13:57	10	10	06/13/23 13:57	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/13/23 13:39	1	0.250	06/13/23 13:39	CRD	EPA 300.0 REV 2.1
Sulfate	590	mg/L		06/13/23 14:15	100	100	06/13/23 14:15	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	9.83	Feet		06/12/23 13:29	1		06/12/23 13:29	FIELD	Field*
Dissolved oxygen, Field	6.0	mg/L		06/12/23 13:29	1		06/12/23 13:29	FIELD	Field*
Oxidation Reduction Potential	38.0	mV		06/12/23 13:29	1	-500	06/12/23 13:29	FIELD	Field*
pH, Field Measured	6.65	pH Units		06/12/23 13:29	1		06/12/23 13:29	FIELD	Field*
Specific Conductance, Field Measured	1840	umhos/cm		06/12/23 13:29	1		06/12/23 13:29	FIELD	Field*
Temperature, Field Measured	15.8	°C		06/12/23 13:29	1		06/12/23 13:29	FIELD	Field*
Turbidity, Field Measured	29.1	NTU		06/12/23 13:29	1	0.00	06/12/23 13:29	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	510	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	990	mg/L		06/13/23 14:44	1	26	06/13/23 14:44	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 08:18	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Barium	75	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Boron	6700	ug/L		06/15/23 07:26	5	10	06/26/23 08:18	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Calcium	280	mg/L		06/15/23 07:26	5	0.20	06/26/23 08:18	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 08:18	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/15/23 07:26	5	2.0	06/26/23 08:18	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Magnesium	84	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:18	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 08:18	JMW	EPA 6020A
Molybdenum	3.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Potassium	0.54	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:18	JMW	EPA 6020A
Selenium	1.8	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Sodium	57	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:18	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02086-03
Name: AW-15S
Matrix: Ground Water - Grab

Sampled: 06/12/23 13:29
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Lithium	< 20	ug/L		06/15/23 07:26	1	20	06/20/23 12:42	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02086-04
Name: AW-16
Matrix: Ground Water - Grab

Sampled: 06/12/23 15:52
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	50	mg/L		06/13/23 15:45	10	10	06/13/23 15:45	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/13/23 15:27	1	0.250	06/13/23 15:27	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/13/23 15:27	1	1.0	06/13/23 15:27	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	20.3	Feet		06/12/23 15:52	1		06/12/23 15:52	FIELD	Field*
Dissolved oxygen, Field	0.51	mg/L		06/12/23 15:52	1		06/12/23 15:52	FIELD	Field*
Oxidation Reduction Potential	-101	mV		06/12/23 15:52	1	-500	06/12/23 15:52	FIELD	Field*
pH, Field Measured	6.51	pH Units		06/12/23 15:52	1		06/12/23 15:52	FIELD	Field*
Specific Conductance, Field Measured	2110	umhos/cm		06/12/23 15:52	1		06/12/23 15:52	FIELD	Field*
Temperature, Field Measured	17.9	°C		06/12/23 15:52	1		06/12/23 15:52	FIELD	Field*
Turbidity, Field Measured	77.4	NTU		06/12/23 15:52	1	0.00	06/12/23 15:52	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	1100	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1500	mg/L		06/13/23 14:44	1	26	06/13/23 14:44	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 08:22	JMW	EPA 6020A
Arsenic	1.7	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Barium	1300	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Boron	450	ug/L		06/15/23 07:26	5	10	06/26/23 08:22	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Calcium	150	mg/L		06/15/23 07:26	5	0.20	06/26/23 08:22	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 08:22	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/15/23 07:26	5	2.0	06/26/23 08:22	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Magnesium	61	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:22	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 08:22	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Potassium	4.6	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:22	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Sodium	250	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:22	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02086-04
Name: AW-16
Matrix: Ground Water - Grab

Sampled: 06/12/23 15:52
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Lithium	31	ug/L		06/15/23 07:26	1	20	06/20/23 12:43	TJJ	EPA 6010B

Sample: GF02086-05
Name: XPW01A
Matrix: Ground Water - Grab

Sampled: 06/12/23 15:32
Received: 06/13/23 06:30
PO #: 1940007191

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

Depth, From Measuring Point	12.94	Feet		06/12/23 15:32	1		06/12/23 15:32	FIELD	Field*
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ANALYTICAL RESULTS

Sample: GF02086-06
Name: AW-10
Matrix: Ground Water - Grab

Sampled: 06/13/23 15:20
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	89	mg/L		06/14/23 12:42	25	25	06/14/23 12:42	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/14/23 12:24	1	0.250	06/14/23 12:24	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/14/23 12:24	1	1.0	06/14/23 12:24	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	1.96	Feet		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Dissolved oxygen, Field	0.010	mg/L		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Oxidation Reduction Potential	-151	mV		06/13/23 15:20	1	-500	06/13/23 15:20	FIELD	Field*
pH, Field Measured	6.91	pH Units		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Specific Conductance, Field Measured	2174	umhos/cm		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Temperature, Field Measured	21.1	°C		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Turbidity, Field Measured	991	NTU		06/13/23 15:20	1	0.00	06/13/23 15:20	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	1000	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1200	mg/L		06/14/23 13:42	1	26	06/14/23 13:42	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 08:41	JMW	EPA 6020A
Arsenic	9.9	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Barium	990	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Boron	460	ug/L		06/15/23 07:26	5	10	06/26/23 08:41	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Calcium	130	mg/L		06/15/23 07:26	5	0.20	06/26/23 08:41	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 08:41	JMW	EPA 6020A
Cobalt	3.0	ug/L		06/15/23 07:26	5	2.0	06/26/23 08:41	JMW	EPA 6020A
Lead	1.4	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Magnesium	65	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:41	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 08:41	JMW	EPA 6020A
Molybdenum	1.2	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Potassium	3.8	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:41	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Sodium	280	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:41	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02086-06
Name: AW-10
Matrix: Ground Water - Grab

Sampled: 06/13/23 15:20
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Lithium	37	ug/L		06/15/23 07:26	1	20	06/20/23 12:45	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02086-07
Name: AW-10 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 06/13/23 15:20
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	97	mg/L		06/14/23 13:54	25	25	06/14/23 13:54	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/14/23 13:36	1	0.250	06/14/23 13:36	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/14/23 13:36	1	1.0	06/14/23 13:36	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	1.96	Feet		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Dissolved oxygen, Field	0.010	mg/L		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Oxidation Reduction Potential	-151	mV		06/13/23 15:20	1	-500	06/13/23 15:20	FIELD	Field*
pH, Field Measured	6.91	pH Units		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Specific Conductance, Field Measured	2174	umhos/cm		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Temperature, Field Measured	21.1	°C		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Turbidity, Field Measured	991	NTU		06/13/23 15:20	1	0.00	06/13/23 15:20	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	1100	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1200	mg/L		06/14/23 13:42	1	26	06/14/23 13:42	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 09:09	JMW	EPA 6020A
Arsenic	9.7	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Barium	990	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Boron	470	ug/L		06/15/23 07:26	5	10	06/26/23 09:09	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Calcium	130	mg/L		06/15/23 07:26	5	0.20	06/26/23 09:09	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 09:09	JMW	EPA 6020A
Cobalt	2.5	ug/L		06/15/23 07:26	5	2.0	06/26/23 09:09	JMW	EPA 6020A
Lead	1.2	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Magnesium	66	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:09	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 09:09	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Potassium	3.8	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:09	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Sodium	280	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:09	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02086-07
Name: AW-10 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 06/13/23 15:20
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Lithium	37	ug/L		06/15/23 07:26	1	20	06/20/23 12:46	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02086-08
Name: AW-11
Matrix: Ground Water - Grab

Sampled: 06/13/23 12:54
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	33	mg/L		06/14/23 15:06	10	10	06/14/23 15:06	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/14/23 14:48	1	0.250	06/14/23 14:48	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/14/23 14:48	1	1.0	06/14/23 14:48	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	5.72	Feet		06/13/23 12:54	1		06/13/23 12:54	FIELD	Field*
Dissolved oxygen, Field	0.10	mg/L		06/13/23 12:54	1		06/13/23 12:54	FIELD	Field*
Oxidation Reduction Potential	-160	mV		06/13/23 12:54	1	-500	06/13/23 12:54	FIELD	Field*
pH, Field Measured	7.03	pH Units		06/13/23 12:54	1		06/13/23 12:54	FIELD	Field*
Specific Conductance, Field Measured	1757	umhos/cm		06/13/23 12:54	1		06/13/23 12:54	FIELD	Field*
Temperature, Field Measured	17.6	°C		06/13/23 12:54	1		06/13/23 12:54	FIELD	Field*
Turbidity, Field Measured	329	NTU		06/13/23 12:54	1	0.00	06/13/23 12:54	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	1000	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		06/14/23 13:42	1	26	06/14/23 13:42	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 09:13	JMW	EPA 6020A
Arsenic	9.9	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Barium	940	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Boron	240	ug/L		06/15/23 07:26	5	10	06/26/23 09:13	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Calcium	160	mg/L		06/15/23 07:26	5	0.20	06/26/23 09:13	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 09:13	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/15/23 07:26	5	2.0	06/26/23 09:13	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Magnesium	71	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:13	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 09:13	JMW	EPA 6020A
Molybdenum	1.4	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Potassium	2.7	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:13	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Sodium	160	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:13	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02086-08
Name: AW-11
Matrix: Ground Water - Grab

Sampled: 06/13/23 12:54
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Lithium	< 20	ug/L		06/15/23 07:26	1	20	06/20/23 12:52	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02086-09
Name: AW-14
Matrix: Ground Water - Grab

Sampled: 06/13/23 11:20
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	24	mg/L		06/14/23 16:55	10	10	06/14/23 16:55	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/14/23 16:37	1	0.250	06/14/23 16:37	CRD	EPA 300.0 REV 2.1
Sulfate	2.9	mg/L		06/14/23 16:37	1	1.0	06/14/23 16:37	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	7.29	Feet		06/13/23 11:20	1		06/13/23 11:20	FIELD	Field*
Dissolved oxygen, Field	0.14	mg/L		06/13/23 11:20	1		06/13/23 11:20	FIELD	Field*
Oxidation Reduction Potential	-152	mV		06/13/23 11:20	1	-500	06/13/23 11:20	FIELD	Field*
pH, Field Measured	6.88	pH Units		06/13/23 11:20	1		06/13/23 11:20	FIELD	Field*
Specific Conductance, Field Measured	1875	umhos/cm		06/13/23 11:20	1		06/13/23 11:20	FIELD	Field*
Temperature, Field Measured	18.0	°C		06/13/23 11:20	1		06/13/23 11:20	FIELD	Field*
Turbidity, Field Measured	10.4	NTU		06/13/23 11:20	1	0.00	06/13/23 11:20	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	1000	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1000	mg/L		06/14/23 13:42	1	26	06/14/23 13:42	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 09:17	JMW	EPA 6020A
Arsenic	7.8	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Barium	800	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Boron	180	ug/L		06/15/23 07:26	5	10	06/26/23 09:17	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Calcium	180	mg/L		06/15/23 07:26	5	0.20	06/26/23 09:17	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 09:17	JMW	EPA 6020A
Cobalt	2.0	ug/L		06/15/23 07:26	5	2.0	06/26/23 09:17	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Magnesium	70	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:17	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 09:17	JMW	EPA 6020A
Molybdenum	3.9	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Potassium	2.3	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:17	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Sodium	150	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:17	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02086-09
Name: AW-14
Matrix: Ground Water - Grab

Sampled: 06/13/23 11:20
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Lithium	< 20	ug/L		06/15/23 07:26	1	20	06/20/23 12:53	TJJ	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02086-10
Name: AW-17
Matrix: Ground Water - Grab

Sampled: 06/13/23 15:20
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	53	mg/L		06/14/23 18:07	10	10	06/14/23 18:07	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/14/23 17:49	1	0.250	06/14/23 17:49	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/14/23 17:49	1	1.0	06/14/23 17:49	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	25.38	Feet		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Dissolved oxygen, Field	0.69	mg/L		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Oxidation Reduction Potential	-111	mV		06/13/23 15:20	1	-500	06/13/23 15:20	FIELD	Field*
pH, Field Measured	7.05	pH Units		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Specific Conductance, Field Measured	1910	umhos/cm		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Temperature, Field Measured	17.0	°C		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Turbidity, Field Measured	124	NTU		06/13/23 15:20	1	0.00	06/13/23 15:20	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	880	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		06/14/23 13:42	1	26	06/14/23 13:42	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 09:21	JMW	EPA 6020A
Arsenic	4.5	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Barium	1100	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Boron	400	ug/L		06/15/23 07:26	5	10	06/26/23 09:21	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Calcium	110	mg/L		06/15/23 07:26	5	0.20	06/26/23 09:21	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 09:21	JMW	EPA 6020A
Cobalt	2.5	ug/L		06/15/23 07:26	5	2.0	06/26/23 09:21	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Magnesium	44	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:21	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 09:21	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Potassium	4.3	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:21	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Sodium	220	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:21	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02086-10
Name: AW-17
Matrix: Ground Water - Grab

Sampled: 06/13/23 15:20
Received: 06/13/23 06:30
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Lithium	31	ug/L		06/15/23 07:26	1	20	06/20/23 12:55	TJJ	EPA 6010B

Sample: GF02086-11
Name: XPW02
Matrix: Ground Water - Grab

Sampled: 06/13/23 12:06
Received: 06/13/23 06:30
PO #: 1940007191

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

Depth, From Measuring Point	22.13	Feet		06/13/23 12:06	1		06/13/23 12:06	FIELD	Field*
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Sample: GF02086-12
Name: XPW03
Matrix: Ground Water - Grab

Sampled: 06/13/23 13:38
Received: 06/13/23 06:30
PO #: 1940007191

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

Depth, From Measuring Point	18.22	Feet		06/13/23 13:38	1		06/13/23 13:38	FIELD	Field*
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Sample: GF02086-13
Name: SG01
Matrix: Ground Water - Grab

Sampled: 06/12/23 11:06
Received: 06/13/23 06:30
PO #: 1940007191

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

Depth, From Measuring Point	441.5	Feet		06/12/23 11:06	1		06/12/23 11:06	GJS	Field*
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ANALYTICAL RESULTS

Sample: GF02645-01
Name: AP05S
Matrix: Ground Water - Grab

Sampled: 06/14/23 10:34
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	46	mg/L	Q4	06/15/23 10:50	10	10	06/15/23 10:50	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/15/23 09:55	1	0.250	06/15/23 09:55	CRD	EPA 300.0 REV 2.1
Sulfate	3.1	mg/L		06/15/23 09:55	1	1.0	06/15/23 09:55	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	5.71	Feet		06/14/23 10:34	1		06/14/23 10:34	FIELD	Field*
Dissolved oxygen, Field	0.060	mg/L		06/14/23 10:34	1		06/14/23 10:34	FIELD	Field*
Oxidation Reduction Potential	-151	mV		06/14/23 10:34	1	-500	06/14/23 10:34	FIELD	Field*
pH, Field Measured	6.85	pH Units		06/14/23 10:34	1		06/14/23 10:34	FIELD	Field*
Specific Conductance, Field Measured	1699	umhos/cm		06/14/23 10:34	1		06/14/23 10:34	FIELD	Field*
Temperature, Field Measured	18.5	°C		06/14/23 10:34	1		06/14/23 10:34	FIELD	Field*
Turbidity, Field Measured	1900	NTU		06/14/23 10:34	1	0.00	06/14/23 10:34	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	850	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1400	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 09:22	JMW	EPA 6020A
Arsenic	3.6	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Barium	1100	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Boron	330	ug/L		06/22/23 08:49	5	10	06/28/23 09:22	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Calcium	110	mg/L	Q4	06/22/23 08:49	5	0.20	06/28/23 09:22	JMW	EPA 6020A
Chromium	8.6	ug/L		06/22/23 08:49	5	4.0	06/28/23 09:22	JMW	EPA 6020A
Cobalt	5.2	ug/L		06/22/23 08:49	5	2.0	06/28/23 09:22	JMW	EPA 6020A
Lead	5.1	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Magnesium	50	mg/L	Q4	06/22/23 08:49	5	0.10	06/28/23 09:22	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 09:22	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Potassium	4.5	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:22	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Sodium	200	mg/L	Q4	06/22/23 08:49	5	0.10	06/28/23 09:22	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02645-01
Name: AP05S
Matrix: Ground Water - Grab

Sampled: 06/14/23 10:34
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Lithium	35	ug/L		06/22/23 08:49	1	20	06/27/23 12:09	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02645-02
Name: AW-01
Matrix: Ground Water - Grab

Sampled: 06/14/23 12:35
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	10	mg/L		06/17/23 03:50	5	5.0	06/17/23 03:50	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/15/23 12:20	1	0.250	06/15/23 12:20	CRD	EPA 300.0 REV 2.1
Sulfate	52	mg/L		06/15/23 12:38	10	10	06/15/23 12:38	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.02	Feet		06/14/23 12:35	1		06/14/23 12:35	FIELD	Field*
Dissolved oxygen, Field	0.15	mg/L		06/14/23 12:35	1		06/14/23 12:35	FIELD	Field*
Oxidation Reduction Potential	-72.0	mV		06/14/23 12:35	1	-500	06/14/23 12:35	FIELD	Field*
pH, Field Measured	6.82	pH Units		06/14/23 12:35	1		06/14/23 12:35	FIELD	Field*
Specific Conductance, Field Measured	1275	umhos/cm		06/14/23 12:35	1		06/14/23 12:35	FIELD	Field*
Temperature, Field Measured	18.2	°C		06/14/23 12:35	1		06/14/23 12:35	FIELD	Field*
Turbidity, Field Measured	196	NTU		06/14/23 12:35	1	0.00	06/14/23 12:35	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	720	mg/L		06/21/23 14:18	1	10	06/21/23 14:18	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/21/23 14:18	1	10	06/21/23 14:18	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	780	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 09:26	JMW	EPA 6020A
Arsenic	6.3	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Barium	140	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Boron	72	ug/L		06/22/23 08:49	5	10	06/28/23 09:26	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Calcium	180	mg/L		06/22/23 08:49	5	0.20	06/28/23 09:26	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 09:26	JMW	EPA 6020A
Cobalt	3.4	ug/L		06/22/23 08:49	5	2.0	06/28/23 09:26	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Magnesium	78	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:26	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 09:26	JMW	EPA 6020A
Molybdenum	3.4	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Potassium	0.30	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:26	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Sodium	18	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:26	JMW	EPA 6020A



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

ANALYTICAL RESULTS

Sample: GF02645-02
Name: AW-01
Matrix: Ground Water - Grab

Sampled: 06/14/23 12:35
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Lithium	< 20	ug/L		06/22/23 08:49	1	20	06/27/23 12:12	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02645-03
Name: AW-06
Matrix: Ground Water - Grab

Sampled: 06/14/23 10:33
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	35	mg/L		06/15/23 15:03	10	10	06/15/23 15:03	CRD	EPA 300.0 REV 2.1
Fluoride	0.319	mg/L		06/15/23 14:45	1	0.250	06/15/23 14:45	CRD	EPA 300.0 REV 2.1
Sulfate	21	mg/L		06/15/23 15:03	10	10	06/15/23 15:03	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	27.62	Feet		06/14/23 10:33	1		06/14/23 10:33	FIELD	Field*
Dissolved oxygen, Field	1.4	mg/L		06/14/23 10:33	1		06/14/23 10:33	FIELD	Field*
Oxidation Reduction Potential	-99.0	mV		06/14/23 10:33	1	-500	06/14/23 10:33	FIELD	Field*
pH, Field Measured	7.09	pH Units		06/14/23 10:33	1		06/14/23 10:33	FIELD	Field*
Specific Conductance, Field Measured	1030	umhos/cm		06/14/23 10:33	1		06/14/23 10:33	FIELD	Field*
Temperature, Field Measured	16.2	°C		06/14/23 10:33	1		06/14/23 10:33	FIELD	Field*
Turbidity, Field Measured	340	NTU		06/14/23 10:33	1	0.00	06/14/23 10:33	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	500	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	600	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 09:30	JMW	EPA 6020A
Arsenic	3.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Barium	160	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Boron	120	ug/L		06/22/23 08:49	5	10	06/28/23 09:30	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Calcium	100	mg/L		06/22/23 08:49	5	0.20	06/28/23 09:30	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 09:30	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/22/23 08:49	5	2.0	06/28/23 09:30	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Magnesium	45	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:30	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 09:30	JMW	EPA 6020A
Molybdenum	4.9	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Potassium	0.78	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:30	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Sodium	59	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:30	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02645-03
Name: AW-06
Matrix: Ground Water - Grab

Sampled: 06/14/23 10:33
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Lithium	< 20	ug/L		06/22/23 08:49	1	20	06/27/23 12:14	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02645-04
Name: AW-08
Matrix: Ground Water - Grab

Sampled: 06/14/23 14:24
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	16	mg/L		06/15/23 16:15	5	5.0	06/15/23 16:15	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/15/23 16:15	1	0.250	06/15/23 16:15	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/15/23 15:57	1	1.0	06/15/23 15:57	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	23.92	Feet		06/14/23 14:24	1		06/14/23 14:24	FIELD	Field*
Dissolved oxygen, Field	8.2	mg/L		06/14/23 14:24	1		06/14/23 14:24	FIELD	Field*
Oxidation Reduction Potential	-141	mV		06/14/23 14:24	1	-500	06/14/23 14:24	FIELD	Field*
pH, Field Measured	7.09	pH Units		06/14/23 14:24	1		06/14/23 14:24	FIELD	Field*
Specific Conductance, Field Measured	1353	umhos/cm		06/14/23 14:24	1		06/14/23 14:24	FIELD	Field*
Temperature, Field Measured	19.4	°C		06/14/23 14:24	1		06/14/23 14:24	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		06/14/23 14:24	1	0.00	06/14/23 14:24	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	710	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	660	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 09:33	JMW	EPA 6020A
Arsenic	10	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Barium	190	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Boron	92	ug/L		06/22/23 08:49	5	10	06/28/23 09:33	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Calcium	140	mg/L		06/22/23 08:49	5	0.20	06/28/23 09:33	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 09:33	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/22/23 08:49	5	2.0	06/28/23 09:33	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Magnesium	59	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:33	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 09:33	JMW	EPA 6020A
Molybdenum	1.6	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Potassium	1.5	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:33	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Sodium	61	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:33	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02645-04
Name: AW-08
Matrix: Ground Water - Grab

Sampled: 06/14/23 14:24
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Lithium	< 20	ug/L		06/22/23 08:49	1	20	06/27/23 12:15	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02645-05
Name: AW-18
Matrix: Ground Water - Grab

Sampled: 06/14/23 12:08
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	97	mg/L		06/15/23 18:04	10	10	06/15/23 18:04	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/15/23 17:46	1	0.250	06/15/23 17:46	CRD	EPA 300.0 REV 2.1
Sulfate	7.7	mg/L		06/15/23 17:46	1	1.0	06/15/23 17:46	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	28.14	Feet		06/14/23 12:08	1		06/14/23 12:08	FIELD	Field*
Dissolved oxygen, Field	1.7	mg/L		06/14/23 12:08	1		06/14/23 12:08	FIELD	Field*
Oxidation Reduction Potential	-105	mV		06/14/23 12:08	1	-500	06/14/23 12:08	FIELD	Field*
pH, Field Measured	6.73	pH Units		06/14/23 12:08	1		06/14/23 12:08	FIELD	Field*
Specific Conductance, Field Measured	1790	umhos/cm		06/14/23 12:08	1		06/14/23 12:08	FIELD	Field*
Temperature, Field Measured	17.5	°C		06/14/23 12:08	1		06/14/23 12:08	FIELD	Field*
Turbidity, Field Measured	218	NTU		06/14/23 12:08	1	0.00	06/14/23 12:08	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	800	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	930	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 09:37	JMW	EPA 6020A
Arsenic	3.3	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Barium	1300	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Boron	1300	ug/L		06/22/23 08:49	5	10	06/28/23 09:37	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Calcium	120	mg/L		06/22/23 08:49	5	0.20	06/28/23 09:37	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 09:37	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/22/23 08:49	5	2.0	06/28/23 09:37	JMW	EPA 6020A
Lead	1.1	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Magnesium	52	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:37	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 09:37	JMW	EPA 6020A
Molybdenum	2.6	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Potassium	3.5	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:37	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Sodium	170	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:37	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02645-05
Name: AW-18
Matrix: Ground Water - Grab

Sampled: 06/14/23 12:08
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Lithium	22	ug/L		06/22/23 08:49	1	20	06/27/23 12:16	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02645-06
Name: AW-19
Matrix: Ground Water - Grab

Sampled: 06/14/23 13:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	82	mg/L		06/15/23 19:16	10	10	06/15/23 19:16	CRD	EPA 300.0 REV 2.1
Fluoride	0.266	mg/L		06/15/23 18:58	1	0.250	06/15/23 18:58	CRD	EPA 300.0 REV 2.1
Sulfate	52	mg/L		06/15/23 19:16	10	10	06/15/23 19:16	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	14.7	Feet		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Dissolved oxygen, Field	2.3	mg/L		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Oxidation Reduction Potential	-52.0	mV		06/14/23 13:40	1	-500	06/14/23 13:40	FIELD	Field*
pH, Field Measured	6.94	pH Units		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Specific Conductance, Field Measured	1110	umhos/cm		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Temperature, Field Measured	17.0	°C		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Turbidity, Field Measured	27.9	NTU		06/14/23 13:40	1	0.00	06/14/23 13:40	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	490	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	620	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 10:17	JMW	EPA 6020A
Arsenic	15	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Barium	200	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Boron	2300	ug/L		06/22/23 08:49	5	10	06/28/23 10:17	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Calcium	120	mg/L		06/22/23 08:49	5	0.20	06/28/23 10:17	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 10:17	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/22/23 08:49	5	2.0	06/28/23 10:17	JMW	EPA 6020A
Lead	1.7	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Magnesium	55	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:17	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 10:17	JMW	EPA 6020A
Molybdenum	3.9	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Potassium	1.2	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:17	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Sodium	54	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:17	JMW	EPA 6020A



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

ANALYTICAL RESULTS

Sample: GF02645-06
Name: AW-19
Matrix: Ground Water - Grab

Sampled: 06/14/23 13:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Lithium	< 20	ug/L		06/22/23 08:49	1	20	06/27/23 12:17	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02645-07
Name: AW-19 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 06/14/23 13:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	79	mg/L		06/15/23 21:04	10	10	06/15/23 21:04	CRD	EPA 300.0 REV 2.1
Fluoride	0.263	mg/L		06/15/23 20:46	1	0.250	06/15/23 20:46	CRD	EPA 300.0 REV 2.1
Sulfate	51	mg/L		06/15/23 21:04	10	10	06/15/23 21:04	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	14.7	Feet		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Dissolved oxygen, Field	2.3	mg/L		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Oxidation Reduction Potential	-52.0	mV		06/14/23 13:40	1	-500	06/14/23 13:40	FIELD	Field*
pH, Field Measured	6.94	pH Units		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Specific Conductance, Field Measured	1110	umhos/cm		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Temperature, Field Measured	17.0	°C		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Turbidity, Field Measured	27.9	NTU		06/14/23 13:40	1	0.00	06/14/23 13:40	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO3	480	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	760	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
<u>Total Metals - PIA</u>									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 10:21	JMW	EPA 6020A
Arsenic	16	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Barium	200	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Boron	2300	ug/L		06/22/23 08:49	5	10	06/28/23 10:21	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Calcium	120	mg/L		06/22/23 08:49	5	0.20	06/28/23 10:21	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 10:21	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/22/23 08:49	5	2.0	06/28/23 10:21	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Magnesium	55	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:21	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 10:21	JMW	EPA 6020A
Molybdenum	3.8	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Potassium	0.94	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:21	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Sodium	54	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:21	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02645-07
Name: AW-19 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 06/14/23 13:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Lithium	< 20	ug/L		06/22/23 08:49	1	20	06/27/23 12:21	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02645-08
Name: AW-21
Matrix: Ground Water - Grab

Sampled: 06/14/23 15:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	97	mg/L		06/15/23 22:17	10	10	06/15/23 22:17	CRD	EPA 300.0 REV 2.1
Fluoride	0.312	mg/L		06/15/23 21:59	1	0.250	06/15/23 21:59	CRD	EPA 300.0 REV 2.1
Sulfate	240	mg/L		06/15/23 22:35	100	100	06/15/23 22:35	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	18.48	Feet		06/14/23 15:40	1		06/14/23 15:40	FIELD	Field*
Dissolved oxygen, Field	2.7	mg/L		06/14/23 15:40	1		06/14/23 15:40	FIELD	Field*
Oxidation Reduction Potential	-28.0	mV		06/14/23 15:40	1	-500	06/14/23 15:40	FIELD	Field*
pH, Field Measured	7.12	pH Units		06/14/23 15:40	1		06/14/23 15:40	FIELD	Field*
Specific Conductance, Field Measured	983.0	umhos/cm		06/14/23 15:40	1		06/14/23 15:40	FIELD	Field*
Temperature, Field Measured	17.4	°C		06/14/23 15:40	1		06/14/23 15:40	FIELD	Field*
Turbidity, Field Measured	6.40	NTU		06/14/23 15:40	1	0.00	06/14/23 15:40	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	190	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	680	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 10:24	JMW	EPA 6020A
Arsenic	1.8	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Barium	59	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Boron	8700	ug/L		06/22/23 08:49	5	10	06/28/23 10:24	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Calcium	110	mg/L		06/22/23 08:49	5	0.20	06/28/23 10:24	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 10:24	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/22/23 08:49	5	2.0	06/28/23 10:24	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Magnesium	36	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:24	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 10:24	JMW	EPA 6020A
Molybdenum	17	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Potassium	2.0	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:24	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Sodium	55	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:24	JMW	EPA 6020A



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

ANALYTICAL RESULTS

Sample: GF02645-08
Name: AW-21
Matrix: Ground Water - Grab

Sampled: 06/14/23 15:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Lithium	< 20	ug/L		06/22/23 08:49	1	20	06/27/23 12:22	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02896-01
Name: AP07S
Matrix: Ground Water - Grab

Sampled: 06/15/23 11:03
Received: 06/15/23 15:22
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	76	mg/L	Q4	06/15/23 19:37	25	25	06/15/23 19:37	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/15/23 18:43	1	0.250	06/15/23 18:43	CRD	EPA 300.0 REV 2.1
Sulfate	480	mg/L		06/17/23 05:05	50	50	06/17/23 05:05	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	25.61	Feet		06/15/23 11:03	1		06/15/23 11:03	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		06/15/23 11:03	1		06/15/23 11:03	FIELD	Field*
Oxidation Reduction Potential	61.5	mV		06/15/23 11:03	1	-500	06/15/23 11:03	FIELD	Field*
pH, Field Measured	6.82	pH Units		06/15/23 11:03	1		06/15/23 11:03	FIELD	Field*
Specific Conductance, Field Measured	1439	umhos/cm		06/15/23 11:03	1		06/15/23 11:03	FIELD	Field*
Temperature, Field Measured	20.6	°C		06/15/23 11:03	1		06/15/23 11:03	FIELD	Field*
Turbidity, Field Measured	901	NTU		06/15/23 11:03	1	0.00	06/15/23 11:03	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	490	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1600	mg/L		06/16/23 13:34	1	26	06/16/23 13:34	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/23/23 11:12	5	3.0	06/28/23 12:25	JMW	EPA 6020A
Arsenic	1.1	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Barium	110	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Boron	18000	ug/L	Q4	06/23/23 11:12	100	200	06/28/23 13:15	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Calcium	240	mg/L		06/23/23 11:12	5	0.20	06/28/23 12:25	JMW	EPA 6020A
Chromium	13	ug/L		06/23/23 11:12	5	4.0	06/28/23 12:25	JMW	EPA 6020A
Cobalt	4.3	ug/L		06/23/23 11:12	5	2.0	06/28/23 12:25	JMW	EPA 6020A
Lead	3.2	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Magnesium	93	mg/L	Q4	06/23/23 11:12	5	0.10	06/28/23 12:25	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/23/23 11:12	5	0.20	06/28/23 12:25	JMW	EPA 6020A
Molybdenum	1.2	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Potassium	1.2	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:25	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Sodium	73	mg/L	Q4	06/23/23 11:12	5	0.10	06/28/23 12:25	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02896-01
Name: AP07S
Matrix: Ground Water - Grab

Sampled: 06/15/23 11:03
Received: 06/15/23 15:22
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Lithium	< 20	ug/L		06/23/23 11:12	1	20	06/27/23 12:32	BRS	EPA 6010B

ANALYTICAL RESULTS

Sample: GF02896-02
Name: AW-05
Matrix: Ground Water - Grab

Sampled: 06/15/23 11:31
Received: 06/15/23 15:22
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	71	mg/L		06/15/23 21:25	10	10	06/15/23 21:25	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/15/23 21:07	1	0.250	06/15/23 21:07	CRD	EPA 300.0 REV 2.1
Sulfate	350	mg/L		06/15/23 22:20	100	100	06/15/23 22:20	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	9.2	Feet		06/15/23 11:31	1		06/15/23 11:31	FIELD	Field*
Dissolved oxygen, Field	0.27	mg/L		06/15/23 11:31	1		06/15/23 11:31	FIELD	Field*
Oxidation Reduction Potential	95.0	mV		06/15/23 11:31	1	-500	06/15/23 11:31	FIELD	Field*
pH, Field Measured	6.96	pH Units		06/15/23 11:31	1		06/15/23 11:31	FIELD	Field*
Specific Conductance, Field Measured	1550	umhos/cm		06/15/23 11:31	1		06/15/23 11:31	FIELD	Field*
Temperature, Field Measured	23.9	°C		06/15/23 11:31	1		06/15/23 11:31	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		06/15/23 11:31	1	0.00	06/15/23 11:31	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	410	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		06/16/23 13:34	1	26	06/16/23 13:34	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/23/23 11:12	5	3.0	06/28/23 12:29	JMW	EPA 6020A
Arsenic	4.5	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Barium	160	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Boron	3600	ug/L		06/23/23 11:12	5	10	06/28/23 12:29	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Calcium	170	mg/L		06/23/23 11:12	5	0.20	06/28/23 12:29	JMW	EPA 6020A
Chromium	10	ug/L		06/23/23 11:12	5	4.0	06/28/23 12:29	JMW	EPA 6020A
Cobalt	6.4	ug/L		06/23/23 11:12	5	2.0	06/28/23 12:29	JMW	EPA 6020A
Lead	4.4	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Magnesium	82	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:29	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/23/23 11:12	5	0.20	06/28/23 12:29	JMW	EPA 6020A
Molybdenum	2.3	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Potassium	2.0	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:29	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Sodium	74	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:29	JMW	EPA 6020A

ANALYTICAL RESULTS

Sample: GF02896-02
Name: AW-05
Matrix: Ground Water - Grab

Sampled: 06/15/23 11:31
Received: 06/15/23 15:22
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Lithium	< 20	ug/L		06/23/23 11:12	1	20	06/27/23 12:38	BRS	EPA 6010B

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B335919 - No Prep - SM 2540C</u>									
Blank (B335919-BLK1)				Prepared & Analyzed: 06/13/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B335919-BS1)				Prepared & Analyzed: 06/13/23					
Solids - total dissolved solids (TDS)	1050	mg/L		1000		105	84.9-109		
Duplicate (B335919-DUP2)				Sample: GF02086-01 Prepared & Analyzed: 06/13/23					
Solids - total dissolved solids (TDS)	755	mg/L			790			5	5
<u>Batch B335988 - No Prep - SM 2540C</u>									
Blank (B335988-BLK1)				Prepared & Analyzed: 06/14/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B335988-BS1)				Prepared & Analyzed: 06/14/23					
Solids - total dissolved solids (TDS)	943	mg/L		1000		94	84.9-109		
Duplicate (B335988-DUP1)				Sample: GF02086-11 Prepared & Analyzed: 06/14/23					
Solids - total dissolved solids (TDS)	2560	mg/L			2580			0.8	5
<u>Batch B336023 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B336023-MS1)				Sample: GF02086-01 Prepared & Analyzed: 06/13/23					
Sulfate	1.63	mg/L		1.500	ND	109	80-120		
Chloride	< 1.0	mg/L	Q1	1.500	29	NR	80-120		
Matrix Spike Dup (B336023-MSD1)				Sample: GF02086-01 Prepared & Analyzed: 06/13/23					
Fluoride	1.53	mg/L		1.500	ND	102	80-120	2	20
Chloride	< 1.0	mg/L	Q2	1.500	29	NR	80-120		20
Sulfate	1.73	mg/L		1.500	ND	115	80-120	6	20
<u>Batch B336099 - SW 3015 - EPA 6010B</u>									
Blank (B336099-BLK1)				Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	< 20	ug/L							
LCS (B336099-BS1)				Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	590	ug/L		555.6		106	80-120		
Matrix Spike (B336099-MS1)				Sample: GF02086-11 Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	850	ug/L		555.6	288	101	75-125		
Matrix Spike Dup (B336099-MSD1)				Sample: GF02086-11 Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	869	ug/L		555.6	288	105	75-125	2	20
<u>Batch B336099 - SW 3015 - EPA 6020A</u>									
Blank (B336099-BLK1)				Prepared: 06/15/23 Analyzed: 06/26/23					
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							

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B336099-BLK1)				Prepared: 06/15/23 Analyzed: 06/26/23					
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B336099-BS1)				Prepared: 06/15/23 Analyzed: 06/26/23					
Antimony	579	ug/L		555.6		104	80-120		
Arsenic	584	ug/L		555.6		105	80-120		
Barium	577	ug/L		555.6		104	80-120		
Beryllium	547	ug/L		555.6		98	80-120		
Boron	521	ug/L		555.6		94	80-120		
Cadmium	591	ug/L		555.6		106	80-120		
Calcium	6.01	mg/L		5.556		108	80-120		
Chromium	599	ug/L		555.6		108	80-120		
Cobalt	587	ug/L		555.6		106	80-120		
Lead	587	ug/L		555.6		106	80-120		
Magnesium	6.04	mg/L		5.556		109	80-120		
Mercury	56.0	ug/L		55.56		101	80-120		
Molybdenum	576	ug/L		555.6		104	80-120		
Potassium	5.85	mg/L		5.556		105	80-120		
Selenium	587	ug/L		555.6		106	80-120		
Sodium	5.91	mg/L		5.556		106	80-120		
Thallium	581	ug/L		555.6		105	80-120		
Matrix Spike (B336099-MS1)				Sample: GF02086-11		Prepared: 06/15/23 Analyzed: 06/26/23			
Antimony	561	ug/L		555.6	2.71	100	75-125		
Arsenic	738	ug/L		555.6	171	102	75-125		
Barium	568	ug/L		555.6	17.8	99	75-125		
Beryllium	527	ug/L		555.6	ND	95	75-125		
Boron	14300	ug/L	E, Q4	555.6	17200	NR	75-125		
Cadmium	569	ug/L		555.6	1.63	102	75-125		
Calcium	41.4	mg/L		5.556	35.6	103	75-125		
Chromium	564	ug/L		555.6	ND	102	75-125		
Cobalt	553	ug/L		555.6	ND	100	75-125		
Lead	546	ug/L		555.6	ND	98	75-125		
Magnesium	5.74	mg/L		5.556	0.0375	103	75-125		
Mercury	56.8	ug/L		55.56	0.189	102	75-125		
Molybdenum	3590	ug/L		555.6	3160	79	75-125		
Potassium	120	mg/L	Q4	5.556	118	39	75-125		
Selenium	726	ug/L		555.6	182	98	75-125		
Sodium	727	mg/L	E, Q4	5.556	1120	NR	75-125		
Thallium	535	ug/L		555.6	ND	96	75-125		
Matrix Spike Dup (B336099-MSD1)				Sample: GF02086-11		Prepared: 06/15/23 Analyzed: 06/26/23			
Antimony	568	ug/L		555.6	2.71	102	75-125	1	20
Arsenic	738	ug/L		555.6	171	102	75-125	0.04	20
Barium	577	ug/L		555.6	17.8	101	75-125	1	20

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B336099-MSD1)				Sample: GF02086-11		Prepared: 06/15/23 Analyzed: 06/26/23			
Beryllium	531	ug/L		555.6	ND	96	75-125	0.8	20
Boron	14500	ug/L	E, Q4	555.6	17200	NR	75-125	2	20
Cadmium	570	ug/L		555.6	1.63	102	75-125	0.1	20
Calcium	41.5	mg/L		5.556	35.6	105	75-125	0.3	20
Chromium	564	ug/L		555.6	ND	102	75-125	0.05	20
Cobalt	555	ug/L		555.6	ND	100	75-125	0.3	20
Lead	551	ug/L		555.6	ND	99	75-125	0.9	20
Magnesium	5.76	mg/L		5.556	0.0375	103	75-125	0.4	20
Mercury	57.2	ug/L		55.56	0.189	103	75-125	0.7	20
Molybdenum	3610	ug/L		555.6	3160	82	75-125	0.5	20
Potassium	121	mg/L	Q4	5.556	118	43	75-125	0.2	20
Selenium	728	ug/L		555.6	182	98	75-125	0.1	20
Sodium	731	mg/L	E, Q4	5.556	1120	NR	75-125	0.6	20
Thallium	541	ug/L		555.6	ND	97	75-125	1	20
<u>Batch B336128 - No Prep - SM 2540C</u>									
Blank (B336128-BLK1)				Prepared & Analyzed: 06/15/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B336128-BS1)				Prepared & Analyzed: 06/15/23					
Solids - total dissolved solids (TDS)	983	mg/L		1000		98	84.9-109		
Duplicate (B336128-DUP1)				Sample: GF02645-01		Prepared & Analyzed: 06/15/23			
Solids - total dissolved solids (TDS)	1370	mg/L			1360			1	5
<u>Batch B336170 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B336170-MS1)				Sample: GF02086-11		Prepared & Analyzed: 06/14/23			
Chloride	< 1.0	mg/L	Q4	1.500	120	NR	80-120		
Matrix Spike Dup (B336170-MSD1)				Sample: GF02086-11		Prepared & Analyzed: 06/14/23			
Chloride	< 1.0	mg/L	Q4	1.500	120	NR	80-120		20
<u>Batch B336245 - No Prep - SM 2540C</u>									
Blank (B336245-BLK1)				Prepared & Analyzed: 06/16/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B336245-BS1)				Prepared & Analyzed: 06/16/23					
Solids - total dissolved solids (TDS)	1000	mg/L		1000		100	84.9-109		
Duplicate (B336245-DUP1)				Sample: GF02896-01		Prepared & Analyzed: 06/16/23			
Solids - total dissolved solids (TDS)	1520	mg/L			1550			2	5
Duplicate (B336245-DUP2)				Sample: GF02896-07		Prepared & Analyzed: 06/16/23			
Solids - total dissolved solids (TDS)	15.0	mg/L			15.0			0	5
<u>Batch B336274 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B336274-MS3)				Sample: GF02645-01		Prepared & Analyzed: 06/15/23			
Chloride	< 1.0	mg/L	Q4	1.500	46	NR	80-120		
Fluoride	1.44	mg/L		1.500	ND	96	80-120		
Sulfate	4.91	mg/L		1.500	3.14	118	80-120		
Matrix Spike Dup (B336274-MSD3)				Sample: GF02645-01		Prepared & Analyzed: 06/15/23			
Sulfate	4.87	mg/L		1.500	3.14	115	80-120	0.8	20
Chloride	< 1.0	mg/L	Q4	1.500	46	NR	80-120		20

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Matrix Spike Dup (B336274-MSD3)				Sample: GF02645-01		Prepared & Analyzed: 06/15/23				
Fluoride	1.45	mg/L		1.500	ND	96	80-120	0.2	20	
<u>Batch B336277 - IC No Prep - EPA 300.0 REV 2.1</u>										
Matrix Spike (B336277-MS1)				Sample: GF02896-01		Prepared & Analyzed: 06/15/23				
Fluoride	1.60	mg/L		1.500	0.151	97	80-120			
Chloride	1.0E9	mg/L	Q4	1.500	76	NR	80-120			
Matrix Spike Dup (B336277-MSD1)				Sample: GF02896-01		Prepared & Analyzed: 06/15/23				
Fluoride	1.56	mg/L		1.500	0.151	94	80-120	2	20	
Chloride	1.0E9	mg/L	Q4	1.500	76	NR	80-120	0	20	
<u>Batch B336326 - No Prep - SM 2320B 1997</u>										
Duplicate (B336326-DUP1)				Sample: GF02086-01		Prepared & Analyzed: 06/16/23				
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10	
Alkalinity - bicarbonate as CaCO3	775	mg/L			788			2	10	
Duplicate (B336326-DUP2)				Sample: GF02086-06		Prepared & Analyzed: 06/16/23				
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10	
Alkalinity - bicarbonate as CaCO3	1100	mg/L			1040			6	10	
Duplicate (B336326-DUP3)				Sample: GF02086-11		Prepared & Analyzed: 06/16/23				
Alkalinity - bicarbonate as CaCO3	< 10	mg/L			ND				10	
Alkalinity - carbonate as CaCO3	200	mg/L			200			0	10	
Duplicate (B336326-DUP4)				Sample: GF02645-01		Prepared & Analyzed: 06/16/23				
Alkalinity - bicarbonate as CaCO3	850	mg/L			850			0	10	
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10	
<u>Batch B336438 - IC No Prep - EPA 300.0 REV 2.1</u>										
Matrix Spike (B336438-MS3)				Sample: GF02896-07		Prepared & Analyzed: 06/16/23				
Sulfate	1.00E9	mg/L	Q4	1.500	122	NR	80-120			
Chloride	1.0E9	mg/L	Q4	1.500	23	NR	80-120			
Matrix Spike Dup (B336438-MSD3)				Sample: GF02896-07		Prepared & Analyzed: 06/16/23				
Chloride	1.0E9	mg/L	Q4	1.500	23	NR	80-120	0	20	
Sulfate	1.00E9	mg/L	Q4	1.500	122	NR	80-120	0	20	
<u>Batch B336745 - SW 3015 - EPA 6010B</u>										
Blank (B336745-BLK1)				Prepared: 06/22/23 Analyzed: 06/27/23						
Lithium	< 20	ug/L								
LCS (B336745-BS1)				Prepared: 06/22/23 Analyzed: 06/27/23						
Lithium	594	ug/L		555.6		107	80-120			
Matrix Spike (B336745-MS1)				Sample: GF02645-01		Prepared: 06/22/23 Analyzed: 06/27/23				
Lithium	588	ug/L		555.6	34.6	100	75-125			
Matrix Spike Dup (B336745-MSD1)				Sample: GF02645-01		Prepared: 06/22/23 Analyzed: 06/27/23				
Lithium	586	ug/L		555.6	34.6	99	75-125	0.3	20	
<u>Batch B336745 - SW 3015 - EPA 6020A</u>										
Blank (B336745-BLK1)				Prepared: 06/22/23 Analyzed: 06/28/23						
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
Blank (B336745-BLK1)				Prepared: 06/22/23 Analyzed: 06/28/23					
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							
LCS (B336745-BS1)				Prepared: 06/22/23 Analyzed: 06/28/23					
Antimony	545	ug/L		555.6		98	80-120		
Arsenic	559	ug/L		555.6		101	80-120		
Barium	549	ug/L		555.6		99	80-120		
Beryllium	512	ug/L		555.6		92	80-120		
Boron	484	ug/L		555.6		87	80-120		
Cadmium	544	ug/L		555.6		98	80-120		
Calcium	5.81	mg/L		5.556		105	80-120		
Chromium	553	ug/L		555.6		100	80-120		
Cobalt	545	ug/L		555.6		98	80-120		
Lead	528	ug/L		555.6		95	80-120		
Magnesium	5.96	mg/L		5.556		107	80-120		
Mercury	52.5	ug/L		55.56		95	80-120		
Molybdenum	536	ug/L		555.6		96	80-120		
Potassium	5.69	mg/L		5.556		102	80-120		
Selenium	566	ug/L		555.6		102	80-120		
Sodium	5.90	mg/L		5.556		106	80-120		
Thallium	528	ug/L		555.6		95	80-120		
Matrix Spike (B336745-MS1)				Sample: GF02645-01		Prepared: 06/22/23 Analyzed: 06/28/23			
Antimony	517	ug/L		555.6	ND	93	75-125		
Arsenic	543	ug/L		555.6	3.55	97	75-125		
Barium	1610	ug/L		555.6	1110	90	75-125		
Beryllium	514	ug/L		555.6	ND	92	75-125		
Boron	798	ug/L		555.6	334	84	75-125		
Cadmium	541	ug/L		555.6	ND	97	75-125		
Calcium	114	mg/L	Q4	5.556	113	6	75-125		
Chromium	548	ug/L		555.6	8.61	97	75-125		
Cobalt	541	ug/L		555.6	5.15	97	75-125		
Lead	520	ug/L		555.6	5.06	93	75-125		
Magnesium	53.0	mg/L	Q4	5.556	49.9	55	75-125		
Mercury	53.9	ug/L		55.56	ND	97	75-125		
Molybdenum	540	ug/L		555.6	0.789	97	75-125		
Potassium	10.0	mg/L		5.556	4.46	100	75-125		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B336745-MS1)				Sample: GF02645-01		Prepared: 06/22/23 Analyzed: 06/28/23			
Selenium	549	ug/L		555.6	ND	99	75-125		
Sodium	190	mg/L	Q4	5.556	196	NR	75-125		
Thallium	517	ug/L		555.6	ND	93	75-125		
Matrix Spike Dup (B336745-MSD1)				Sample: GF02645-01		Prepared: 06/22/23 Analyzed: 06/28/23			
Antimony	513	ug/L		555.6	ND	92	75-125	0.9	20
Arsenic	539	ug/L		555.6	3.55	96	75-125	0.7	20
Barium	1590	ug/L		555.6	1110	87	75-125	1	20
Beryllium	519	ug/L		555.6	ND	93	75-125	1	20
Boron	795	ug/L		555.6	334	83	75-125	0.4	20
Cadmium	533	ug/L		555.6	ND	96	75-125	1	20
Calcium	113	mg/L	Q4	5.556	113	4	75-125	0.09	20
Chromium	545	ug/L		555.6	8.61	97	75-125	0.6	20
Cobalt	539	ug/L		555.6	5.15	96	75-125	0.5	20
Lead	516	ug/L		555.6	5.06	92	75-125	0.8	20
Magnesium	53.0	mg/L	Q4	5.556	49.9	55	75-125	0.02	20
Mercury	52.7	ug/L		55.56	ND	95	75-125	2	20
Molybdenum	535	ug/L		555.6	0.789	96	75-125	1	20
Potassium	9.94	mg/L		5.556	4.46	99	75-125	1	20
Selenium	551	ug/L		555.6	ND	99	75-125	0.3	20
Sodium	190	mg/L	Q4	5.556	196	NR	75-125	0.01	20
Thallium	510	ug/L		555.6	ND	92	75-125	1	20

Batch B336880 - SW 3015 - EPA 6010B

Blank (B336880-BLK1)				Prepared: 06/23/23 Analyzed: 06/27/23					
Lithium	< 20	ug/L							
LCS (B336880-BS1)				Prepared: 06/23/23 Analyzed: 06/27/23					
Lithium	565	ug/L		555.6		102	80-120		
Matrix Spike (B336880-MS1)				Sample: GF02896-01		Prepared: 06/23/23 Analyzed: 06/27/23			
Lithium	558	ug/L		555.6	8.76	99	75-125		
Matrix Spike Dup (B336880-MSD1)				Sample: GF02896-01		Prepared: 06/23/23 Analyzed: 06/27/23			
Lithium	568	ug/L		555.6	8.76	101	75-125	2	20

Batch B336880 - SW 3015 - EPA 6020A

Blank (B336880-BLK1)				Prepared: 06/23/23 Analyzed: 06/28/23					
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							

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B336880-BLK1)				Prepared: 06/23/23 Analyzed: 06/28/23					
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B336880-BS1)				Prepared: 06/23/23 Analyzed: 06/28/23					
Antimony	537	ug/L		555.6		97	80-120		
Arsenic	547	ug/L		555.6		98	80-120		
Barium	537	ug/L		555.6		97	80-120		
Beryllium	518	ug/L		555.6		93	80-120		
Boron	495	ug/L		555.6		89	80-120		
Cadmium	538	ug/L		555.6		97	80-120		
Calcium	5.67	mg/L		5.556		102	80-120		
Chromium	548	ug/L		555.6		99	80-120		
Cobalt	544	ug/L		555.6		98	80-120		
Lead	526	ug/L		555.6		95	80-120		
Magnesium	5.96	mg/L		5.556		107	80-120		
Mercury	51.9	ug/L		55.56		93	80-120		
Molybdenum	532	ug/L		555.6		96	80-120		
Potassium	5.61	mg/L		5.556		101	80-120		
Selenium	561	ug/L		555.6		101	80-120		
Sodium	5.90	mg/L		5.556		106	80-120		
Thallium	527	ug/L		555.6		95	80-120		
Matrix Spike (B336880-MS1)				Sample: GF02896-01		Prepared: 06/23/23 Analyzed: 06/28/23			
Antimony	536	ug/L		555.6	ND	97	75-125		
Arsenic	558	ug/L		555.6	1.06	100	75-125		
Barium	660	ug/L		555.6	114	98	75-125		
Beryllium	529	ug/L		555.6	ND	95	75-125		
Boron	13000	ug/L	E, Q4	555.6	18200	NR	75-125		
Cadmium	551	ug/L		555.6	ND	99	75-125		
Calcium	239	mg/L		5.556	238	22	75-125		
Chromium	563	ug/L		555.6	13.4	99	75-125		
Cobalt	542	ug/L		555.6	4.29	97	75-125		
Lead	531	ug/L		555.6	3.22	95	75-125		
Magnesium	95.8	mg/L	Q4	5.556	92.9	53	75-125		
Mercury	55.1	ug/L		55.56	ND	99	75-125		
Molybdenum	558	ug/L		555.6	1.24	100	75-125		
Potassium	6.63	mg/L		5.556	1.18	98	75-125		
Selenium	557	ug/L		555.6	ND	100	75-125		
Sodium	76.4	mg/L	Q4	5.556	73.3	56	75-125		
Thallium	531	ug/L		555.6	ND	96	75-125		
Matrix Spike Dup (B336880-MSD1)				Sample: GF02896-01		Prepared: 06/23/23 Analyzed: 06/28/23			
Antimony	536	ug/L		555.6	ND	96	75-125	0.2	20
Arsenic	557	ug/L		555.6	1.06	100	75-125	0.1	20
Barium	660	ug/L		555.6	114	98	75-125	0.01	20
Beryllium	540	ug/L		555.6	ND	97	75-125	2	20
Boron	13300	ug/L	E, Q4	555.6	18200	NR	75-125	2	20
Cadmium	549	ug/L		555.6	ND	99	75-125	0.3	20

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B336880-MSD1)									
	Sample: GF02896-01			Prepared: 06/23/23 Analyzed: 06/28/23					
Calcium	239	mg/L		5.556	238	12	75-125	0.2	20
Chromium	565	ug/L		555.6	13.4	99	75-125	0.4	20
Cobalt	542	ug/L		555.6	4.29	97	75-125	0.05	20
Lead	528	ug/L		555.6	3.22	95	75-125	0.5	20
Magnesium	95.8	mg/L	Q4	5.556	92.9	53	75-125	0.02	20
Mercury	54.5	ug/L		55.56	ND	98	75-125	1	20
Molybdenum	552	ug/L		555.6	1.24	99	75-125	1	20
Potassium	6.66	mg/L		5.556	1.18	99	75-125	0.5	20
Selenium	555	ug/L		555.6	ND	100	75-125	0.5	20
Sodium	76.5	mg/L	Q4	5.556	73.3	57	75-125	0.03	20
Thallium	529	ug/L		555.6	ND	95	75-125	0.4	20
<u>Batch B337163 - No Prep - SM 2320B 1997</u>									
Duplicate (B337163-DUP1)									
	Sample: GF02896-01			Prepared & Analyzed: 06/27/23					
Alkalinity - carbonate as CaCO3	< 2.0	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	488	mg/L			488			0	10
Duplicate (B337163-DUP2)									
	Sample: GF02896-07			Prepared & Analyzed: 06/27/23					
Alkalinity - carbonate as CaCO3	< 2.0	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	612	mg/L			612			0	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

- E Estimated - concentration exceeds the instrument calibration range.
- 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: Gail Schindler, Project Manager



July 28, 2023

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

RE: Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 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 06/28/23. Revised to add headspace qualifier. 062923hmp

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

Sincerely,



Randal Rastorfer for
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: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50347864001	AW-09	Water	06/12/23 14:05	06/22/23 09:15
50347864002	AW-15	Water	06/12/23 14:35	06/22/23 09:15
50347864003	AW-15S	Water	06/12/23 13:29	06/22/23 09:15
50347864004	AW-16	Water	06/12/23 15:52	06/22/23 09:15
50347864005	XPW01A	Water	06/12/23 15:32	06/22/23 09:15
50347864006	AW-10	Water	06/13/23 15:20	06/22/23 09:15
50347864007	AW-10 DUP	Water	06/13/23 15:20	06/22/23 09:15
50347864008	AW-11	Water	06/13/23 12:54	06/22/23 09:15
50347864009	AW-14	Water	06/13/23 11:20	06/22/23 09:15
50347864010	AW-17	Water	06/13/23 15:20	06/22/23 09:15
50347864011	XPW02	Water	06/13/23 12:06	06/22/23 09:15
50347864012	XPW03	Water	06/13/23 13:38	06/22/23 09:15

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SAMPLE ANALYTE COUNT

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50347864001	AW-09	RSK 175 Modified	JRW	3	PASI-I
50347864002	AW-15	RSK 175 Modified	JRW	3	PASI-I
50347864003	AW-15S	RSK 175 Modified	JRW	3	PASI-I
50347864004	AW-16	RSK 175 Modified	JRW	3	PASI-I
50347864005	XPW01A	RSK 175 Modified	JRW	3	PASI-I
50347864006	AW-10	RSK 175 Modified	JRW	3	PASI-I
50347864007	AW-10 DUP	RSK 175 Modified	JRW	3	PASI-I
50347864008	AW-11	RSK 175 Modified	JRW	3	PASI-I
50347864009	AW-14	RSK 175 Modified	JRW	3	PASI-I
50347864010	AW-17	RSK 175 Modified	JRW	3	PASI-I
50347864011	XPW02	RSK 175 Modified	JRW	3	PASI-I
50347864012	XPW03	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: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50347864001	AW-09					
RSK 175 Modified	Methane	23700	ug/L	20.0	06/23/23 13:48	
50347864002	AW-15					
RSK 175 Modified	Methane	48500	ug/L	50.0	06/23/23 08:19	
50347864004	AW-16					
RSK 175 Modified	Methane	60400	ug/L	50.0	06/23/23 08:40	HS
50347864005	XPW01A					
RSK 175 Modified	Methane	951	ug/L	10.0	06/23/23 13:26	
50347864006	AW-10					
RSK 175 Modified	Methane	65500	ug/L	50.0	06/23/23 09:02	
50347864007	AW-10 DUP					
RSK 175 Modified	Methane	61600	ug/L	50.0	06/23/23 09:24	
50347864008	AW-11					
RSK 175 Modified	Methane	47300	ug/L	50.0	06/23/23 09:46	
50347864009	AW-14					
RSK 175 Modified	Methane	42600	ug/L	50.0	06/23/23 10:08	
50347864010	AW-17					
RSK 175 Modified	Methane	59600	ug/L	50.0	06/23/23 14:10	
50347864011	XPW02					
RSK 175 Modified	Methane	145	ug/L	10.0	06/23/23 14:31	
50347864012	XPW03					
RSK 175 Modified	Methane	920	ug/L	10.0	06/23/23 13:02	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-09	Lab ID: 50347864001	Collected: 06/12/23 14:05	Received: 06/22/23 09:15	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							
Ethane	ND	ug/L	20.0	2		06/23/23 13:48	74-84-0	
Ethene	ND	ug/L	20.0	2		06/23/23 13:48	74-85-1	
Methane	23700	ug/L	20.0	2		06/23/23 13:48	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-15		Lab ID: 50347864002	Collected: 06/12/23 14:35	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/23/23 08:19	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 08:19	74-85-1	
Methane	48500	ug/L	50.0	5		06/23/23 08:19	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Mistra-Edwards
 Pace Project No.: 50347864

Sample: AW-15S		Lab ID: 50347864003	Collected: 06/12/23 13:29	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/22/23 16:24	74-84-0	
Ethene	ND	ug/L	10.0	1		06/22/23 16:24	74-85-1	
Methane	ND	ug/L	10.0	1		06/22/23 16:24	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-16		Lab ID: 50347864004	Collected: 06/12/23 15:52	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/23/23 08:40	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 08:40	74-85-1	
Methane	60400	ug/L	50.0	5		06/23/23 08:40	74-82-8	HS

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ANALYTICAL RESULTS

Project: GF02088/Mistra-Edwards
 Pace Project No.: 50347864

Sample: XPW01A		Lab ID: 50347864005	Collected: 06/12/23 15:32	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 13:26	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 13:26	74-85-1	
Methane	951	ug/L	10.0	1		06/23/23 13:26	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Mistra-Edwards
 Pace Project No.: 50347864

Sample: AW-10		Lab ID: 50347864006	Collected: 06/13/23 15:20	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/23/23 09:02	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 09:02	74-85-1	
Methane	65500	ug/L	50.0	5		06/23/23 09:02	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-10 DUP	Lab ID: 50347864007	Collected: 06/13/23 15:20	Received: 06/22/23 09:15	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								
Ethane	ND	ug/L	50.0	5		06/23/23 09:24	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 09:24	74-85-1	
Methane	61600	ug/L	50.0	5		06/23/23 09:24	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-11		Lab ID: 50347864008	Collected: 06/13/23 12:54	Received: 06/22/23 09:15	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							
Ethane	ND	ug/L	50.0	5		06/23/23 09:46	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 09:46	74-85-1	
Methane	47300	ug/L	50.0	5		06/23/23 09:46	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-14		Lab ID: 50347864009	Collected: 06/13/23 11:20	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/23/23 10:08	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 10:08	74-85-1	
Methane	42600	ug/L	50.0	5		06/23/23 10:08	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-17		Lab ID: 50347864010	Collected: 06/13/23 15:20	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/23/23 14:10	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 14:10	74-85-1	
Methane	59600	ug/L	50.0	5		06/23/23 14:10	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: XPW02		Lab ID: 50347864011	Collected: 06/13/23 12:06	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 14:31	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 14:31	74-85-1	
Methane	145	ug/L	10.0	1		06/23/23 14:31	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: XPW03		Lab ID: 50347864012	Collected: 06/13/23 13:38	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 13:02	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 13:02	74-85-1	
Methane	920	ug/L	10.0	1		06/23/23 13:02	74-82-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

QC Batch: 740541 Analysis Method: RSK 175 Modified
 QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50347864003

METHOD BLANK: 3396982 Matrix: Water
 Associated Lab Samples: 50347864003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/22/23 09:40	
Ethene	ug/L	ND	10.0	06/22/23 09:40	
Methane	ug/L	ND	10.0	06/22/23 09:40	

LABORATORY CONTROL SAMPLE: 3396983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	1980	1880	95	68-135	
Ethene	ug/L	2250	2350	104	79-128	
Methane	ug/L	1980	1660	84	64-132	

SAMPLE DUPLICATE: 3397286

Parameter	Units	50347822004 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	3.9J		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	ND	ND		20	

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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QUALITY CONTROL DATA

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

QC Batch: 740781 Analysis Method: RSK 175 Modified
 QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50347864001, 50347864002, 50347864004, 50347864005, 50347864006, 50347864007, 50347864008, 50347864009, 50347864010, 50347864011, 50347864012

METHOD BLANK: 3398055 Matrix: Water
 Associated Lab Samples: 50347864001, 50347864002, 50347864004, 50347864005, 50347864006, 50347864007, 50347864008, 50347864009, 50347864010, 50347864011, 50347864012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/23/23 07:55	
Ethene	ug/L	ND	10.0	06/23/23 07:55	
Methane	ug/L	ND	10.0	06/23/23 07:55	

LABORATORY CONTROL SAMPLE: 3398056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	1980	1960	99	68-135	
Ethene	ug/L	2250	2440	108	79-128	
Methane	ug/L	1980	1770	89	64-132	

SAMPLE DUPLICATE: 3398461

Parameter	Units	50347864012 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	6.5J		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	920	856	7	20	

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: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50347864001	AW-09	RSK 175 Modified	740781		
50347864002	AW-15	RSK 175 Modified	740781		
50347864003	AW-15S	RSK 175 Modified	740541		
50347864004	AW-16	RSK 175 Modified	740781		
50347864005	XPW01A	RSK 175 Modified	740781		
50347864006	AW-10	RSK 175 Modified	740781		
50347864007	AW-10 DUP	RSK 175 Modified	740781		
50347864008	AW-11	RSK 175 Modified	740781		
50347864009	AW-14	RSK 175 Modified	740781		
50347864010	AW-17	RSK 175 Modified	740781		
50347864011	XPW02	RSK 175 Modified	740781		
50347864012	XPW03	RSK 175 Modified	740781		

REPORT OF LABORATORY ANALYSIS

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WO#: 50347864



50347864

State of Origin: IL YES NO
Cert. Needed: YES NO

Owner Received Date: 6/13/2023
Results Required By: 7/11/2023

Order Name: Vistra - Edwards
Subcontract To:

Report To:
Gail Schindler
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	Date/Time	Received By	Date/Time	Comments
1	AW-09	GRAB	6/12/2023 14:05	GF02088-01	GW					
2	AW-15	GRAB	6/12/2023 14:07	GF02088-02	GW					
3	AW-15S	GRAB	6/12/2023 13:29	GF02088-03	GW					
4	AW-16	GRAB	6/12/2023 15:52	GF02088-04	GW					
5	XPW01A	GRAB	6/12/2023 15:32	GF02088-05	GW					
6	AW-10	GRAB	6/13/2023 15:20	GF02088-06	GW					
7	AW-10 DUP	GRAB	6/13/2023 15:20	GF02088-07	GW					
8	AW-11	GRAB	6/13/2023 12:54	GF02088-08	GW					
9	AW-14	GRAB	6/13/2023 11:20	GF02088-09	GW					
10	AW-17	GRAB	6/13/2023 15:20	GF02088-10	GW					
11	XPW02	GRAB	6/13/2023 12:06	GF02088-11	GW					
12	XPW03	GRAB	6/13/2023 13:38	GF02088-12	GW					

Transfers Released By	Date/Time	Received By	Date/Time	Comments
<i>[Signature]</i>	6/13/2023 13:38	<i>[Signature]</i>		
	6/13/2023 09:15	<i>[Signature]</i>		
	6/13/2023 09:15	<i>[Signature]</i>		

Cooler Temperature on Receipt: 6.3 °C Custody Seal: For N Received on: For N Sample Intact: For 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: MR C/22/23 1340

1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 ABCDEF G

4. Cooler Temperature(s): 07/03

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)		/			
Short Hold Time Analysis (48 hours or less)? Analysis:		/			/
Time 5035A TC placed in Freezer or Short Holds To Lab Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		/			
Custody Signatures Present?	/		Present	Absent	No VOA Vials Sent
Containers Intact?:	/				/
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/				
Extra labels on Terracore Vials? (soils only)				/	

COMMENTS:



ANALYTICAL REPORT

July 27, 2023

Revised Report

Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

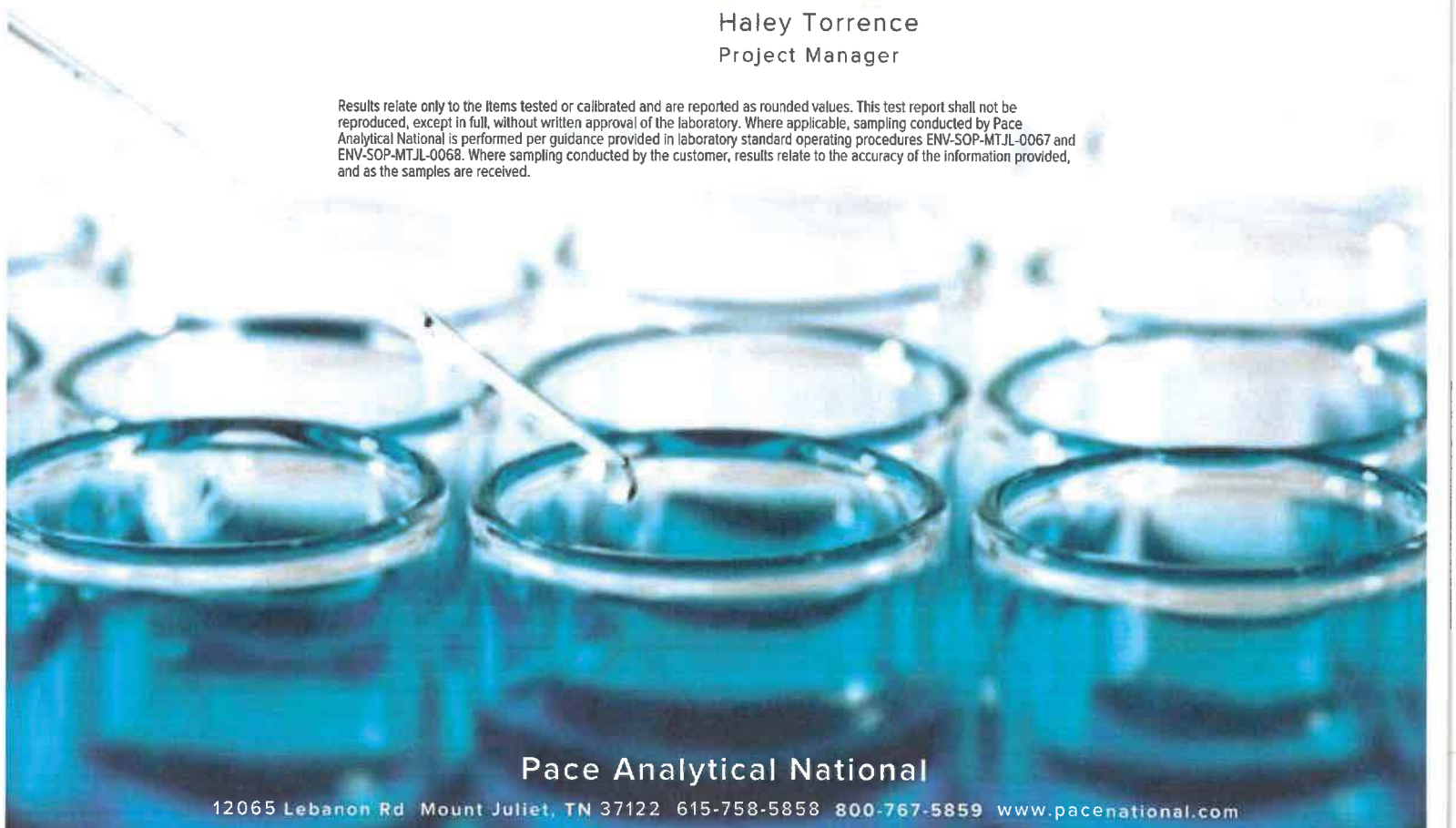
Pace IR - Peoria, IL

Sample Delivery Group: L1628609
Samples Received: 06/22/2023
Project Number: GF02088
Description: Vistra-Edwards
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
Project Manager

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

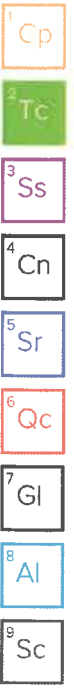


Pace Analytical National

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

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SAMPLE SUMMARY

AW-09 L1628609-01 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/12/23 14:05
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:26	RGT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

AW-15 L1628609-02 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/12/23 14:35
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

AW-15S L1628609-03 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/12/23 13:29
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

AW-16 L1628609-04 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/12/23 12:52
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

XPW01A L1628609-05 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/12/23 15:32
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

AW-10 DUP L1628609-06 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/13/23 15:20
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

AW-10 L1628609-08 Non-Potable Water
 Collected by: [blank] Collected date/time: 06/13/23 15:20 Received date/time: 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

AW-11 L1628609-09 Non-Potable Water
 Collected by: [blank] Collected date/time: 06/13/23 12:54 Received date/time: 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

AW-14 L1628609-10 Non-Potable Water
 Collected by: [blank] Collected date/time: 06/13/23 11:20 Received date/time: 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

AW-17 L1628609-11 Non-Potable Water
 Collected by: [blank] Collected date/time: 06/13/23 15:20 Received date/time: 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RRE	Mt. Juliet, TN

XPW02 L1628609-12 Non-Potable Water
 Collected by: [blank] Collected date/time: 06/13/23 12:06 Received date/time: 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2094102	1	07/13/23 09:59	07/21/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

XPW03 L1628609-13 Non-Potable Water
 Collected by: [blank] Collected date/time: 06/13/23 13:38 Received date/time: 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2094102	1	07/13/23 09:59	07/21/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:37	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

Report Revision History

Level II Report - Version 1: 07/25/23 15:07

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 pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.0128	U	0.235	0.430	07/21/2023 16:40	WG2093699
(T) Barium	90.2			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	122			30.0-136	07/21/2023 16:40	WG2093699

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.230	J	0.309	0.490	07/21/2023 16:40	WG2094942

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.230	J	0.201	0.235	07/17/2023 21:26	WG2094942
(T) Barium-133	94.4			30.0-143	07/17/2023 21:26	WG2094942

6 Qc

7 GI

8 Al

9 Sc

AW-15 EDWARDS, ASH POND
EDW-845-301
Collected date/time: 07/21/23 14:35

SAMPLE RESULTS - 02
L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.18		0.269	0.420	07/21/2023 16:40	WG2093699
(T) Barium	102			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	97.4			30.0-136	07/21/2023 16:40	WG2093699

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	3.80		0.563	0.508	07/21/2023 16:40	WG2094942

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	1.61		0.495	0.286	07/17/2023 21:25	WG2094942
(T) Barium-133	95.6			30.0-143	07/17/2023 21:25	WG2094942

6 Qc

7 GI

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	-0.149	<u>U</u>	0.380	0.687	07/21/2023 16:40	WG2093699
(T) Barium	77.0			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	117			30.0-136	07/21/2023 16:40	WG2093699

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	0.203	<u>U</u>	0.420	0.713	07/21/2023 16:40	WG2094942

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	0.203		0.180	0.192	07/17/2023 21:25	WG2094942
(T) Barium-133	85.6			30.0-143	07/17/2023 21:25	WG2094942

6 Qc

7 GI

8 Al

9 Sc

AW-16 EDWARDS, ASH POND
 Collected date: 07/21/2023 12:52

SAMPLE RESULTS - 04
 L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.02		0.295	0.473	07/21/2023 16:40	WG2093699
(T) Barium	93.3			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	106			30.0-136	07/21/2023 16:40	WG2093699

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.74		0.586	0.538	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.72		0.506	0.256	07/17/2023 21:25	WG2094942
(T) Barium-133	95.6			30.0-143	07/17/2023 21:25	WG2094942

- 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	-0.375	U	0.338	0.619	07/21/2023 16:40	WG2093699
(T) Barium	79.4			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	106			30.0-136	07/21/2023 16:40	WG2093699

- 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	0.0760	U	0.354	0.638	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0760	J	0.106	0.154	07/17/2023 21:25	WG2094942
(T) Barium-133	98.3			30.0-143	07/17/2023 21:25	WG2094942

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.59		0.311	0.515	07/21/2023 16:40	WG2093699
(T) Barium	87.2			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	101			30.0-136	07/21/2023 16:40	WG2093699

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	2.79		0.608	0.672	07/21/2023 16:40	WG2094946

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	1.19		0.522	0.431	07/18/2023 19:19	WG2094946
(T) Barium-133	78.5			30.0-143	07/18/2023 19:19	WG2094946

6 Qc

7 Gl

8 Al

9 Sc

AW-10

EDWARDS, ASH POND

SAMPLE RESULTS - 08

Collected date: 07/21/2023 15:20

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.36		0.343	0.581	07/21/2023 16:40	WG2093699
(T) Barium	84.5			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	98.1			30.0-136	07/21/2023 16:40	WG2093699

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	2.95		0.615	0.667	07/21/2023 16:40	WG2094946

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	1.59		0.510	0.328	07/18/2023 19:19	WG2094946
(T) Barium-133	99.2			30.0-143	07/18/2023 19:19	WG2094946

6 Qc

7 Gl

8 Al

9 Sc

AW-11

EDWARDS, ASH POND

SAMPLE RESULTS - 09

Collected date: 07/21/23 12:54

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.430	J	0.394	0.696	07/21/2023 16:40	WG2093699
(T) Barium	77.3			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	100			30.0-136	07/21/2023 16:40	WG2093699

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	2.29		0.672	0.744	07/21/2023 16:40	WG2094946

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	1.86		0.544	0.262	07/18/2023 19:19	WG2094946
(T) Barium-133	96.0			30.0-143	07/18/2023 19:19	WG2094946

6 Qc

7 Gl

8 Al

9 Sc

AW-14

EDWARDS, ASH POND

SAMPLE RESULTS - 10

Collected date: 07/15/23 11:20

EDW-845-801

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.55		0.356	0.576	07/21/2023 16:40	WG2093699
(T) Barium	91.7			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	104			30.0-136	07/21/2023 16:40	WG2093699

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	3.46		0.544	0.667	07/21/2023 16:40	WG2094946

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	0.918		0.411	0.336	07/18/2023 19:19	WG2094946
(T) Barium-133	96.1			30.0-143	07/18/2023 19:19	WG2094946

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	1.59		0.342	0.573	07/21/2023 16:40	WG2093699
(T) Barium	87.6			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	103			30.0-136	07/21/2023 16:40	WG2093699

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	2.97		0.617	0.671	07/21/2023 16:40	WG2094946

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	1.39		0.514	0.349	07/18/2023 19:19	WG2094946
(T) Barium-133	83.7			30.0-143	07/18/2023 19:19	WG2094946

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	0.172	U	0.284	0.524	07/21/2023 20:53	WG2094102
(T) Barium	102			30.0-143	07/21/2023 20:53	WG2094102
(T) Yttrium	111			30.0-136	07/21/2023 20:53	WG2094102

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	0.481	J	0.462	0.725	07/21/2023 20:53	WG2094946

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	0.309	J	0.364	0.501	07/18/2023 19:19	WG2094946
(T) Barium-133	62.1			30.0-143	07/18/2023 19:19	WG2094946

6 Qc

7 GI

8 AI

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.760		0.312	0.553	07/21/2023 20:53	WG2094102
(T) Borium	92.1			30.0-143	07/21/2023 20:53	WG2094102
(T) Yttrium	99.0			30.0-136	07/21/2023 20:53	WG2094102

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	0.897		0.399	0.675	07/21/2023 20:53	WG2094946

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	0.137	<u>U</u>	0.249	0.387	07/18/2023 19:37	WG2094946
(T) Barium-133	81.3			30.0-143	07/18/2023 19:37	WG2094946

6 Qc

7 Gl

8 Al

9 Sc

WG2093699

Radiochemistry by Method 904/9320

Method Blank (MB)

(MB) R3952414-1 07/21/23 16:40	
Analyte	MB Result pCi/l
Radium-228	0.282
(f) Barium	97.5
(f) Yttrium	95.0

MB Qualifier	
MB Uncertainty +/-	MB MDA pCi/l
0.186	0.328
97.5	
95.0	

L1628609-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1628609-05 07/21/23 16:40 • (DUP) R3952414-5 07/21/23 16:40

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 RPD Limits %	DUP Qualifier	DUP RER Limit
Radium-228	-0.375	0.338	0.619	0.502	0.392	0.619	1	200	1.70	20	J	3
(f) Barium	79.4			85.7	85.7							
(f) Yttrium	106			111	111							

Laboratory Control Sample (LCS)

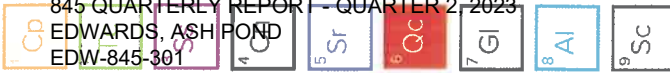
(LCS) R3952414-2 07/21/23 16:40

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.63	113	80.0-120	
(f) Barium			88.4		
(f) Yttrium			110		

L1628608-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628608-09 07/21/23 16:40 • (MS) R3952414-3 07/21/23 16:40 • (MSD) R3952414-4 07/21/23 16:40

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	RPD %	MS RER	RPD Limits %
Radium-228	10.0	-0.185	9.88	10.1	98.8	101	1	70.0-130		2.22		20
(f) Barium		92.6			95.1	100						
(f) Yttrium		111			106	111						



WG2094102

Radiochemistry by Method 904/9320

Method Blank (MB)

(MB) R3952036-1 07/21/23 20:53

Analyte	MB Result pCi/l	MB Qualifier +/-	MB Uncertainty pCi/l	MB MDA pCi/l
Radium-228	0.480	0.197	0.349	
(f) Barium	98.6			
(f) Yttrium	87.8			

L1628609-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1628609-13 07/21/23 20:53 • (DUP) R3952036-5 07/21/23 20:53

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 RPD Limits %	DUP RER Limit
Radium-228	0.760	0.312	0.553	0.433	0.380	0.553	1	54.7	0.664	20	3
(f) Barium	92.1			86.0	86.0						
(f) Yttrium	99.0			104	104						

Laboratory Control Sample (LCS)

(LCS) R3952036-2 07/21/23 20:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.48	110	80.0-120	
(f) Barium		94.8			
(f) Yttrium		94.9			

L1628609-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628609-12 07/21/23 20:53 • (MS) R3952036-3 07/21/23 20:53 • (MSD) R3952036-4 07/21/23 20:53

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.172	17.1	16.3	101	96.5	1	70.0-130		4.80	4.80		20
(f) Barium		102		97.2	97.2	96.8							
(f) Yttrium		111		112	112	118							

WG2094942

Radiochemistry by Method SM7500Ra B M

Method Blank (MB)

(MB) R3950486-1 07/17/23 21:25

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-226	-0.0120	U	0.0199	0.0625
(7) Barium-133	93.8		93.8	

L1628608-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1628608-04 07/17/23 21:25 • (DUP) R3950486-5 07/17/23 21:25

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	-0.0607	0.207	0.394	0.121	0.176	0.394	1	200	0.667	J	20	3
(7) Barium-133	89.1			94.2	94.2							

Laboratory Control Sample (LCS)

(LCS) R3950486-2 07/17/23 21:25

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.64	92.5	80.0-120	
(7) Barium-133		94.4			

L1628609-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628609-03 07/17/23 21:25 • (MS) R3950486-3 07/17/23 21:25 • (MSD) R3950486-4 07/17/23 21:25

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	0.203	18.8	17.7	92.8	87.2	1	75.0-125			6.15		20
(7) Barium-133		85.6		87.6	83.0	87.6							

ACCOUNT:
Pace IR - Peoria, IL

PROJECT:
GF02088

SDG:
L1628609

DATE/TIME:
07/27/23 16:00

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Radiochemistry by Method SM7500Ra B M

Method Blank (MB)

(MB) R3950913-1 07/18/23 19:19

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-226	0.00239	U	0.0456	0.0934
(T) Barium-133	80.0		80.0	

L1628922-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1628922-12 07/18/23 19:37 • (DUP) R3950913-5 07/18/23 19:19

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 RPD Limits %	DUP RER Limit
Radium-226	6.99	1.01	0.217	8.15	1.11	0.217	1	15.3	0.774	20	3
(T) Barium-133	105	112		112	112						

Laboratory Control Sample (LCS)

(LCS) R3950913-2 07/18/23 19:19

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.25	105	80.0-120	
(T) Barium-133		92.3			

L1628609-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628609-12 07/18/23 19:19 • (MS) R3950913-3 07/18/23 19:19 • (MSD) R3950913-4 07/18/23 19:19

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.309	18.3	15.4	90.1	75.2	1	75.0-125	17.6	17.6		20
(T) Barium-133		62.1	60.6	69.0								

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

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	CB47
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

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

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

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

Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ AI

⁹ Sc



Internal Transfer Chain of Custody

State of Origin: IL YES NO
Cert. Needed: YES NO

Owner Received Date: 6/13/2023 By: 7/11/2023
Requested Analysis

Workorder: GF02088
Report To: Gail Schindler

Workorder Name: Vistra - Edwards
Subcontract To: Pace Analytical - Mt Juliet
12065 Lebanon Rd
Mt Juliet TN 37122

Item	Sample ID	Sample Type	Collect Date/Time	Matrix	Preserved Containers	Date/Time	Comments
1	AW-09	GRAB	6/12/2023 14:05	GW			
2	AW-15	GRAB	6/12/2023 13:05	GW			
3	AW-15S	GRAB	6/12/2023 13:29	GW			
4	AW-16	GRAB	6/12/2023 15:52	GW			
5	XPW01A	GRAB	6/12/2023 15:32	GW			
6	AW-10	GRAB	6/13/2023 15:20	GW			
7	AW-10 DUP	GRAB	6/13/2023 15:20	GW			
8	AW-11	GRAB	6/13/2023 12:54	GW			
9	AW-14	GRAB	6/13/2023 11:20	GW			
10	AW-17	GRAB	6/13/2023 15:20	GW			
11	XPW02	GRAB	6/13/2023 12:06	GW			
12	XPW03	GRAB	6/13/2023 13:38	GW			

LAB USE ONLY
-01
-02
-03
-04
-05
-06

Transfer/Released By	Date/Time	Received By	Date/Time	Comments
[Signature]	6/21/23 1405			
		Harley Robinson	6/22/23 0900	Needs reported as 226, 228 and also combined 226/228 Include QC summary and add

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.

PH: 19804432 Fax: 241 3372
CRS-20221V
FMT-ALL-C-002rev.00 24March2009
Page 1 of 1

Sample Receipt Checklist
COC Seal Present/Intact: Y N IF Applicable
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
RAD Screen <0.5 mR/hr: Y N

11628609



Ship to :
 Pace Analytical Services, LLC
 1638 Roseytown Rd - Suites 2,3,4
 Greensburg, PA 15601

(724)850-5600

INTER LABORATORY WORK ORDER # **GF02088**
 (To be complete by sending lab)

Sending Project No:	GF02088
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	6/20/2023
REQUESTED COMPLETION DATE:	7/11/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
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		12		12	\$242.10	\$2,905.20
		1		1	\$0.00	\$0.00
		1		1		\$0.00
TOTAL						\$2,905.20

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	\$2,905.20	\$2,324.16	\$581.04
		TOTAL	\$2,324.16	\$581.04

* 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.

LI628009

Tracking Numbers	NS ALO Temperature
6319 (0001 0051)	20.6 ± 0.206



Ship to:
 Pace Analytical Services, LLC
 1638 Roseytown Rd - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

U1628609

INTER LABORATORY WORK ORDER # GFO2088

(To be complete by sending lab)

Sending Project No:	GFO2088
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	6/20/2023
REQUESTED COMPLETION DATE:	7/11/2023

Sending Region	IR72-IL/MO	Sending Project Mgr	Gail Schindler
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		12		12	\$242.10	\$2,905.20
		1		1	\$0.00	\$0.00
		1		1		\$0.00
TOTAL						\$2,905.20

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	\$2,905.20	\$2,324.16	\$581.04
* Custom Revenue Allocation		TOTAL	\$2,324.16	\$581.04

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.

L162809

Tracking Numbers	N5 AL Temperature
6319 6001 0051	20.6 to 20.6
6319 6001 0084	24.5 to 24.5

June 29, 2023

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

RE: Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 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: GF02677/Vistra-Edwards
Pace Project No.: 50347870

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50347870001	AP05S	Water	06/14/23 10:34	06/22/23 09:15
50347870002	AW-01	Water	06/14/23 12:35	06/22/23 09:15
50347870003	AW-06	Water	06/14/23 10:33	06/22/23 09:15
50347870004	AW-08	Water	06/14/23 14:24	06/22/23 09:15
50347870005	AW-18	Water	06/14/23 12:08	06/22/23 09:15
50347870006	AW-19	Water	06/14/23 13:40	06/22/23 09:15
50347870007	AW-19 DUP	Water	06/14/23 13:40	06/22/23 09:15
50347870008	AW-21	Water	06/14/23 15:40	06/22/23 09:15
50347870009	EB-01	Water	06/14/23 16:03	06/22/23 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50347870001	AP05S	RSK 175 Modified	JRW	3	PASI-I
50347870002	AW-01	RSK 175 Modified	JRW	3	PASI-I
50347870003	AW-06	RSK 175 Modified	JRW	3	PASI-I
50347870004	AW-08	RSK 175 Modified	JRW	3	PASI-I
50347870005	AW-18	RSK 175 Modified	JRW	3	PASI-I
50347870006	AW-19	RSK 175 Modified	JRW	3	PASI-I
50347870007	AW-19 DUP	RSK 175 Modified	JRW	3	PASI-I
50347870008	AW-21	RSK 175 Modified	JRW	3	PASI-I
50347870009	EB-01	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: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50347870001	AP05S					
RSK 175 Modified	Methane	10400	ug/L	50.0	06/28/23 16:26	
50347870002	AW-01					
RSK 175 Modified	Methane	982	ug/L	10.0	06/28/23 16:47	
50347870004	AW-08					
RSK 175 Modified	Methane	3530	ug/L	10.0	06/23/23 18:08	
50347870005	AW-18					
RSK 175 Modified	Methane	46200	ug/L	50.0	06/28/23 17:08	
50347870006	AW-19					
RSK 175 Modified	Methane	17.1	ug/L	10.0	06/28/23 17:30	
50347870007	AW-19 DUP					
RSK 175 Modified	Methane	21.9	ug/L	10.0	06/23/23 19:33	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards

Pace Project No.: 50347870

Sample: AP05S **Lab ID: 50347870001** Collected: 06/14/23 10:34 Received: 06/22/23 09:15 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

Ethane	ND	ug/L	50.0	5		06/28/23 16:26	74-84-0	
Ethene	ND	ug/L	50.0	5		06/28/23 16:26	74-85-1	
Methane	10400	ug/L	50.0	5		06/28/23 16:26	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Sample: AW-01		Lab ID: 50347870002		Collected: 06/14/23 12:35	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/28/23 16:47	74-84-0	
Ethene	ND	ug/L	10.0	1		06/28/23 16:47	74-85-1	
Methane	982	ug/L	10.0	1		06/28/23 16:47	74-82-8	

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards

Pace Project No.: 50347870

Sample: AW-06	Lab ID: 50347870003	Collected: 06/14/23 10:33	Received: 06/22/23 09:15	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

Ethane	ND	ug/L	10.0	1		06/23/23 17:47	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 17:47	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 17:47	74-82-8	

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Sample: AW-08		Lab ID: 50347870004		Collected: 06/14/23 14:24		Received: 06/22/23 09:15		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							
Ethane	ND	ug/L	10.0	1		06/23/23 18:08	74-84-0		
Ethene	ND	ug/L	10.0	1		06/23/23 18:08	74-85-1		
Methane	3530	ug/L	10.0	1		06/23/23 18:08	74-82-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Sample: AW-18		Lab ID: 50347870005		Collected: 06/14/23 12:08	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/28/23 17:08	74-84-0	
Ethene	ND	ug/L	50.0	5		06/28/23 17:08	74-85-1	
Methane	46200	ug/L	50.0	5		06/28/23 17:08	74-82-8	

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Sample: AW-19		Lab ID: 50347870006		Collected: 06/14/23 13:40	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/28/23 17:30	74-84-0	
Ethene	ND	ug/L	10.0	1		06/28/23 17:30	74-85-1	
Methane	17.1	ug/L	10.0	1		06/28/23 17:30	74-82-8	

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards

Pace Project No.: 50347870

Sample: AW-19 DUP		Lab ID: 50347870007		Collected: 06/14/23 13:40	Received: 06/22/23 09:15	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

Ethane	ND	ug/L	10.0	1		06/23/23 19:33	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 19:33	74-85-1	
Methane	21.9	ug/L	10.0	1		06/23/23 19:33	74-82-8	

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Sample: AW-21		Lab ID: 50347870008		Collected: 06/14/23 15:40	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 19:54	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 19:54	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 19:54	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards

Pace Project No.: 50347870

Sample: EB-01	Lab ID: 50347870009	Collected: 06/14/23 16:03	Received: 06/22/23 09:15	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

Ethane	ND	ug/L	10.0	1		06/23/23 20:15	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 20:15	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 20:15	74-82-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

QC Batch: 740903 Analysis Method: RSK 175 Modified
QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50347870003, 50347870004, 50347870007, 50347870008, 50347870009

METHOD BLANK: 3398470 Matrix: Water
Associated Lab Samples: 50347870003, 50347870004, 50347870007, 50347870008, 50347870009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/23/23 16:02	
Ethene	ug/L	ND	10.0	06/23/23 16:02	
Methane	ug/L	ND	10.0	06/23/23 16:02	

LABORATORY CONTROL SAMPLE: 3398471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	1980	1940	98	68-135	
Ethene	ug/L	2250	2440	109	79-128	
Methane	ug/L	1980	1900	96	64-132	

SAMPLE DUPLICATE: 3398723

Parameter	Units	50347822012 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	3.9J		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	ND	ND		20	

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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QUALITY CONTROL DATA

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

QC Batch: 741553 Analysis Method: RSK 175 Modified
QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50347870001, 50347870002, 50347870005, 50347870006

METHOD BLANK: 3400941 Matrix: Water
Associated Lab Samples: 50347870001, 50347870002, 50347870005, 50347870006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/28/23 15:49	
Ethene	ug/L	ND	10.0	06/28/23 15:49	
Methane	ug/L	ND	10.0	06/28/23 15:49	

LABORATORY CONTROL SAMPLE: 3400942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	1980	2140	108	68-135	
Ethene	ug/L	2250	2700	120	79-128	
Methane	ug/L	1980	2000	101	64-132	

SAMPLE DUPLICATE: 3401028

Parameter	Units	50347822014 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	4J		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	ND	ND		20	

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: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

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: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50347870001	AP05S	RSK 175 Modified	741553		
50347870002	AW-01	RSK 175 Modified	741553		
50347870003	AW-06	RSK 175 Modified	740903		
50347870004	AW-08	RSK 175 Modified	740903		
50347870005	AW-18	RSK 175 Modified	741553		
50347870006	AW-19	RSK 175 Modified	741553		
50347870007	AW-19 DUP	RSK 175 Modified	740903		
50347870008	AW-21	RSK 175 Modified	740903		
50347870009	EB-01	RSK 175 Modified	740903		

REPORT OF LABORATORY ANALYSIS

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WO#: 50347870



50347870

State of Origin: IL
 Cert. Needed: YES NO



Owner Received Date: 6/14/2023 Results Required By: 7/11/2023

Order Name: Vistra - Edwards

Report To: Subcontract To: Requested Analysis

Gail Schindler
 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			
						1	2	3	4	5	6	7	8				
1	AP055	GRAB	6/14/2023 10:34	GF02677-01	GW											X	OC1
2	AW-01	GRAB	6/14/2023 12:35	GF02677-02	GW											X	OC2
3	AW-06	GRAB	6/14/2023 10:33	GF02677-03	GW											X	OC3
4	AW-08	GRAB	6/14/2023 14:24	GF02677-04	GW											X	OC4
5	AW-18	GRAB	6/14/2023 12:08	GF02677-05	GW											X	OC5
6	AW-19	GRAB	6/14/2023 13:40	GF02677-06	GW											X	OC6
7	AW-19 DUP	GRAB	6/14/2023 13:40	GF02677-07	GW											X	OC7
8	AW-21	GRAB	6/14/2023 15:40	GF02677-08	GW											X	OC8
9	EB-01		6/14/2023 16:03	GF02677-09	GW											X	OC9
																X	
																X	
10																X	

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>[Signature]</i>	6/21/23 1230	<i>[Signature]</i>		
2	<i>[Signature]</i>	6/22/23 0915	<i>[Signature]</i>	6/22/23	
3					Include QC summary and edd

Cooler Temperature on Receipt 0.3 °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 CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: ms 0/22/23 1340

1. Courier: FED EX UPS CLIENT PACE USPS 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 A B C D E F G
4. Cooler Temperature(s): 0.2/0.3
(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. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>				<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?	<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"/>		Headspace in VOA Vials (>6mm): See Container Count form for details		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?		<input checked="" type="checkbox"/>	
			Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	

COMMENTS:

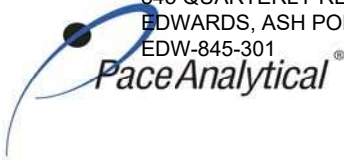
Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	MeOH (only) SBS DI	VIALS			AMBER GLASS						PLASTIC						OTHER			Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc										
			DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N		BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	Red	Yellow	Green	Black			
			R	DG9H	VG9H	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N		BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9			
1					3																														5
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

Container Codes

Glass				Plastic			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unreserved plastic	Miscellaneous	
DG9U	40mL unreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac		
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	Syringe Kit	LL Cr+6 sampling kit
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	ZPLC	Ziploc Bag
VG9U	40mL unreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	R	Terracore Kit
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate
WGKU	8oz unreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	GN	General Container
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can (air sample)
JGFU	4oz unreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	WT	Water
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	SL	Solid Solid
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unreserved plastic	OL	Oil
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe



ANALYTICAL REPORT

July 25, 2023

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

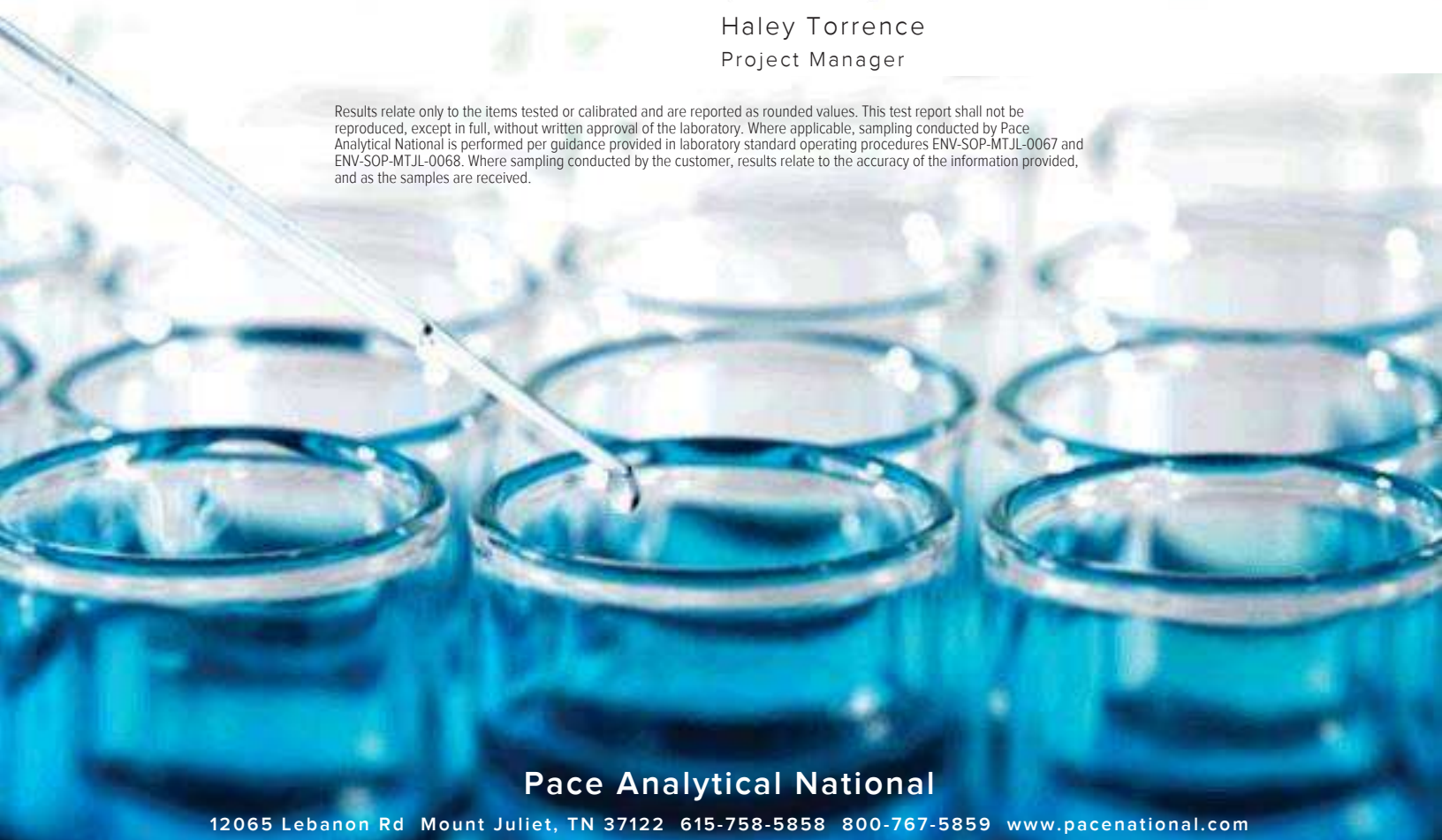
Pace IR - Peoria, IL

Sample Delivery Group: L1628608
Samples Received: 06/22/2023
Project Number: GF02677
Description: Vistra-Edwadts
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
Project Manager

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

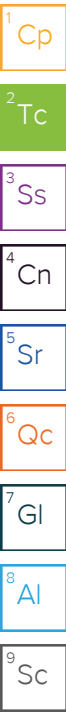


Pace Analytical National

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

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SAMPLE SUMMARY

AP05S L1628608-01 Non-Potable Water

Collected by
Collected date/time
Received date/time
06/14/23 10:34 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

AW-01 L1628608-02 Non-Potable Water

Collected by
Collected date/time
Received date/time
06/14/23 12:35 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

AW-06 L1628608-03 Non-Potable Water

Collected by
Collected date/time
Received date/time
06/14/23 10:33 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

AW-08 L1628608-04 Non-Potable Water

Collected by
Collected date/time
Received date/time
06/14/23 14:24 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

AW-18 L1628608-05 Non-Potable Water

Collected by
Collected date/time
Received date/time
06/14/23 12:08 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

AW-19 L1628608-06 Non-Potable Water

Collected by
Collected date/time
Received date/time
06/14/23 13:40 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

AW-19 DUP L1628608-07 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/14/23 13:40
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:26	RGT	Mt. Juliet, TN

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

AW-21 L1628608-08 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/14/23 15:40
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:26	RGT	Mt. Juliet, TN

EB-01 L1628608-09 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/14/23 16:03
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:26	RGT	Mt. Juliet, TN

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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.30		0.596	1.01	07/20/2023 16:47	WG2093281
(T) Barium	70.8			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	96.1			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.53		0.840	1.07	07/20/2023 16:47	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.23		0.592	0.355	07/17/2023 21:25	WG2094942
(T) Barium-133	90.3			30.0-143	07/17/2023 21:25	WG2094942

- 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	-0.461	<u>U</u>	0.369	0.695	07/20/2023 16:47	WG2093281
(T) Barium	82.0			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	109			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.773		0.492	0.725	07/20/2023 16:47	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.773		0.325	0.207	07/17/2023 21:25	WG2094942
(T) Barium-133	99.1			30.0-143	07/17/2023 21:25	WG2094942

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	0.413	J	0.251	0.447	07/20/2023 16:47	WG2093281
(T) Barium	83.3			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	107			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.910		0.400	0.540	07/20/2023 16:47	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.498		0.311	0.303	07/17/2023 21:25	WG2094942
(T) Barium-133	91.7			30.0-143	07/17/2023 21:25	WG2094942

- 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	0.815		0.333	0.583	07/20/2023 16:47	WG2093281
(T) Barium	79.7			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	102			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.815		0.392	0.704	07/20/2023 16:47	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	-0.0607	<u>U</u>	0.207	0.394	07/17/2023 21:25	WG2094942
(T) Barium-133	89.1			30.0-143	07/17/2023 21:25	WG2094942

- 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	1.86		0.296	0.479	07/20/2023 16:47	WG2093281
(T) Barium	83.1			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	96.5			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.92		0.508	0.568	07/20/2023 16:47	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.05		0.413	0.305	07/17/2023 21:25	WG2094942
(T) Barium-133	91.3			30.0-143	07/17/2023 21:25	WG2094942

- 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	0.294	J	0.213	0.379	07/21/2023 16:40	WG2093699
(T) Barium	96.3			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	106			30.0-136	07/21/2023 16:40	WG2093699

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.471	J	0.325	0.520	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.178	J	0.245	0.356	07/17/2023 21:25	WG2094942
(T) Barium-133	83.9			30.0-143	07/17/2023 21:25	WG2094942

- 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	0.458		0.221	0.387	07/21/2023 16:40	WG2093699
(T) Barium	93.3			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	108			30.0-136	07/21/2023 16:40	WG2093699

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.04		0.400	0.494	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.585		0.334	0.307	07/17/2023 21:26	WG2094942
(T) Barium-133	96.5			30.0-143	07/17/2023 21:26	WG2094942

- 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	0.103	<u>U</u>	0.259	0.470	07/21/2023 16:40	WG2093699
(T) Barium	83.1			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	93.8			30.0-136	07/21/2023 16:40	WG2093699

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.326	<u>J</u>	0.355	0.573	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.224	<u>J</u>	0.243	0.327	07/17/2023 21:26	WG2094942
(T) Barium-133	101			30.0-143	07/17/2023 21:26	WG2094942

- 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	-0.185	<u>U</u>	0.208	0.389	07/21/2023 16:40	WG2093699
(T) Barium	92.6			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	111			30.0-136	07/21/2023 16:40	WG2093699

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0292	<u>U</u>	0.264	0.494	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0292	<u>U</u>	0.163	0.305	07/17/2023 21:26	WG2094942
(T) Barium-133	97.1			30.0-143	07/17/2023 21:26	WG2094942

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

Method Blank (MB)

(MB) R3952228-1 07/20/23 16:47

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.237	<u>J</u>	0.171	0.309
(T) Barium	86.7		86.7	
(T) Yttrium	106		106	

L1628597-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1628597-03 07/20/23 16:47 • (DUP) R3952228-5 07/20/23 16:47

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	0.234	0.470	0.850	-0.986	0.427	0.850	1	200	1.92	<u>U</u>	20	3
(T) Barium	74.6			88.3	88.3							
(T) Yttrium	102			96.1	96.1							

Laboratory Control Sample (LCS)

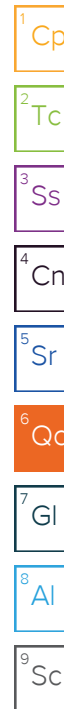
(LCS) R3952228-2 07/20/23 16:47

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.29	106	80.0-120	
(T) Barium			87.9		
(T) Yttrium			106		

L1628608-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628608-02 07/20/23 16:47 • (MS) R3952228-3 07/20/23 16:47 • (MSD) R3952228-4 07/20/23 16:47

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	-0.461	18.0	18.9	107	113	1	70.0-130			5.00		20
(T) Barium		82.0			82.6	79.5							
(T) Yttrium		109			106	93.4							



Method Blank (MB)

(MB) R3952414-1 07/21/23 16:40

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.282	↓	0.186	0.328
(T) Barium	97.5		97.5	
(T) Yttrium	95.0		95.0	

L1628609-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1628609-05 07/21/23 16:40 • (DUP) R3952414-5 07/21/23 16:40

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	-0.375	0.338	0.619	0.502	0.392	0.619	1	200	1.70	↓	20	3
(T) Barium	79.4			85.7	85.7							
(T) Yttrium	106			111	111							

Laboratory Control Sample (LCS)

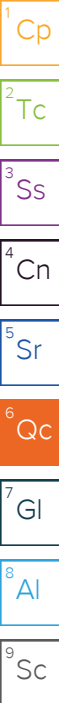
(LCS) R3952414-2 07/21/23 16:40

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.63	113	80.0-120	
(T) Barium			88.4		
(T) Yttrium			110		

L1628608-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628608-09 07/21/23 16:40 • (MS) R3952414-3 07/21/23 16:40 • (MSD) R3952414-4 07/21/23 16:40

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	-0.185	9.88	10.1	98.8	101	1	70.0-130			2.22		20
(T) Barium		92.6			95.1	100							
(T) Yttrium		111			106	111							



Method Blank (MB)

(MB) R3950486-1 07/17/23 21:25

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	-0.0120	<u>U</u>	0.0199	0.0625
(T) Barium-133	93.8		93.8	

L1628608-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1628608-04 07/17/23 21:25 • (DUP) R3950486-5 07/17/23 21:25

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	-0.0607	0.207	0.394	0.121	0.176	0.394	1	200	0.667	<u>J</u>	20	3
(T) Barium-133	89.1			94.2	94.2							

Laboratory Control Sample (LCS)

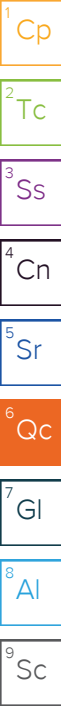
(LCS) R3950486-2 07/17/23 21:25

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.64	92.5	80.0-120	
(T) Barium-133			94.4		

L1628609-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628609-03 07/17/23 21:25 • (MS) R3950486-3 07/17/23 21:25 • (MSD) R3950486-4 07/17/23 21:25

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	0.203	18.8	17.7	92.8	87.2	1	75.0-125			6.15		20
(T) Barium-133		85.6			83.0	87.6							



Guide to Reading and Understanding Your Laboratory Report

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

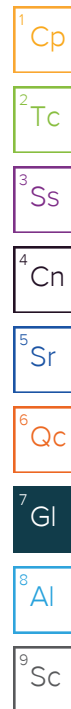
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

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



ACCREDITATIONS & LOCATIONS

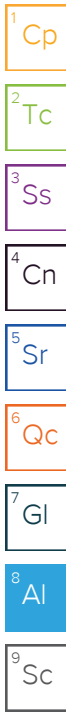
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

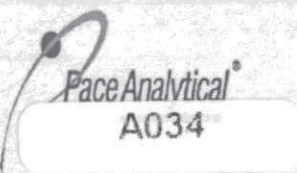
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

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



Internal Transfer Chain of Custody

State of Origin: IL
Cert. Needed: YES NO



Owner Received: _____ Results Required: _____

Workorder: GF02677 Workorder Name: Vistra - Edwards Date: 6/14/2023 By: 7/11/2023

Report To: Gail Schindler Subcontract To: Pace Analytical - Mt Juliet Requested Analysis: _____

Gail Schindler
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

Preserved Containers

Radium 226/228

LAB USE ONLY
4628605

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix																
1	AP055	GRAB	6/14/2023 10:34	GF02677-01	GW															-01	
2	AW-01	GRAB	6/14/2023 12:35	GF02677-02	GW																-02
3	AW-06	GRAB	6/14/2023 10:33	GF02677-03	GW																-03
4	AW-08	GRAB	6/14/2023 14:24	GF02677-04	GW																-04
5	AW-18	GRAB	6/14/2023 12:08	GF02677-05	GW																-05
6	AW-19	GRAB	6/14/2023 13:40	GF02677-06	GW																-06
7	AW-19 DUP	GRAB	6/14/2023 13:40	GF02677-07	GW																-07
8	AW-21	GRAB	6/14/2023 15:40	GF02677-08	GW																-08
9	EB-01		6/14/2023 16:03	GF02677-09	GW																-09
10																					

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>[Signature]</i>	6/21/23 12:05			Needs reported as 226, 228 and also combined 226/228
2			<i>[Signature]</i>	6/22/23 09:00	Include QC summary and edd
3					

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.

6319 6000 9957 NS AB 19.8 ± 0 = 19.8

Sample Receipt Checklist

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

PH-108DH4321 TRC-2713312
CR6-20221V

June 28, 2023

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

RE: Project: GF02943/Vistra-Edwards
Pace Project No.: 50347865

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 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: GF02943/Vistra-Edwards
Pace Project No.: 50347865

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50347865001	AP07S	Water	06/15/23 11:03	06/22/23 09:15
50347865002	AW-05	Water	06/15/23 11:31	06/22/23 09:15
50347865003	EB-2	Water	06/15/23 14:00	06/22/23 09:15
50347865004	APW-01	Water	06/14/23 15:44	06/22/23 09:15
50347865005	AW-20	Water	06/15/23 10:05	06/22/23 09:15
50347865006	AW-23	Water	06/14/23 13:23	06/22/23 09:15
50347865007	EWM-05	Water	06/15/23 07:41	06/22/23 09:15
50347865008	DUP-1	Water	06/15/23 10:10	06/22/23 09:15

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SAMPLE ANALYTE COUNT

Project: GF02943/Vistra-Edwards

Pace Project No.: 50347865

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50347865001	AP07S	RSK 175 Modified	JRW	3	PASI-I
50347865002	AW-05	RSK 175 Modified	JRW	3	PASI-I
50347865003	EB-2	RSK 175 Modified	JRW	3	PASI-I
50347865004	APW-01	RSK 175 Modified	JRW	3	PASI-I
50347865005	AW-20	RSK 175 Modified	JRW	3	PASI-I
50347865006	AW-23	RSK 175 Modified	JRW	3	PASI-I
50347865007	EWM-05	RSK 175 Modified	JRW	3	PASI-I
50347865008	DUP-1	RSK 175 Modified	JRW	3	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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SUMMARY OF DETECTION

Project: GF02943/Vistra-Edwards

Pace Project No.: 50347865

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50347865005	AW-20					
RSK 175 Modified	Methane	28.7	ug/L	10.0	06/23/23 22:23	
50347865008	DUP-1					
RSK 175 Modified	Methane	24.1	ug/L	10.0	06/23/23 23:26	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Sample: AP07S		Lab ID: 50347865001		Collected: 06/15/23 11:03	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 20:36	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 20:36	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 20:36	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards

Pace Project No.: 50347865

Sample: AW-05	Lab ID: 50347865002	Collected: 06/15/23 11:31	Received: 06/22/23 09:15	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

Ethane	ND	ug/L	10.0	1		06/23/23 20:58	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 20:58	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 20:58	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards

Pace Project No.: 50347865

Sample: EB-2	Lab ID: 50347865003	Collected: 06/15/23 14:00	Received: 06/22/23 09:15	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

Ethane	ND	ug/L	10.0	1		06/23/23 21:19	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 21:19	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 21:19	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards

Pace Project No.: 50347865

Sample: APW-01	Lab ID: 50347865004	Collected: 06/14/23 15:44	Received: 06/22/23 09:15	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

Ethane	ND	ug/L	10.0	1		06/23/23 22:02	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 22:02	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 22:02	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Sample: AW-20		Lab ID: 50347865005		Collected: 06/15/23 10:05	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 22:23	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 22:23	74-85-1	
Methane	28.7	ug/L	10.0	1		06/23/23 22:23	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards

Pace Project No.: 50347865

Sample: AW-23	Lab ID: 50347865006	Collected: 06/14/23 13:23	Received: 06/22/23 09:15	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

Ethane	ND	ug/L	10.0	1		06/23/23 22:44	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 22:44	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 22:44	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Sample: EWM-05		Lab ID: 50347865007		Collected: 06/15/23 07:41	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 23:05	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 23:05	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 23:05	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards

Pace Project No.: 50347865

Sample: DUP-1	Lab ID: 50347865008	Collected: 06/15/23 10:10	Received: 06/22/23 09:15	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

Ethane	ND	ug/L	10.0	1		06/23/23 23:26	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 23:26	74-85-1	
Methane	24.1	ug/L	10.0	1		06/23/23 23:26	74-82-8	

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QUALITY CONTROL DATA

Project: GF02943/Vistra-Edwards
Pace Project No.: 50347865

QC Batch: 740903 Analysis Method: RSK 175 Modified
QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50347865001, 50347865002, 50347865003, 50347865004, 50347865005, 50347865006, 50347865007, 50347865008

METHOD BLANK: 3398470 Matrix: Water
Associated Lab Samples: 50347865001, 50347865002, 50347865003, 50347865004, 50347865005, 50347865006, 50347865007, 50347865008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/23/23 16:02	
Ethene	ug/L	ND	10.0	06/23/23 16:02	
Methane	ug/L	ND	10.0	06/23/23 16:02	

LABORATORY CONTROL SAMPLE: 3398471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	1980	1940	98	68-135	
Ethene	ug/L	2250	2440	109	79-128	
Methane	ug/L	1980	1900	96	64-132	

SAMPLE DUPLICATE: 3398723

Parameter	Units	50347822012 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	3.9J		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	ND	ND		20	

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: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50347865001	AP07S	RSK 175 Modified	740903		
50347865002	AW-05	RSK 175 Modified	740903		
50347865003	EB-2	RSK 175 Modified	740903		
50347865004	APW-01	RSK 175 Modified	740903		
50347865005	AW-20	RSK 175 Modified	740903		
50347865006	AW-23	RSK 175 Modified	740903		
50347865007	EWM-05	RSK 175 Modified	740903		
50347865008	DUP-1	RSK 175 Modified	740903		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: Steve 4/22/23 1340

- 1. Courier: FED EX UPS CLIENT PACE USPS 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 A B C D E F G
- 4. Cooler Temperature(s): 0.2/0.3
(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. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		<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>
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			
			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"/>	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	

COMMENTS:

Sample Container Count

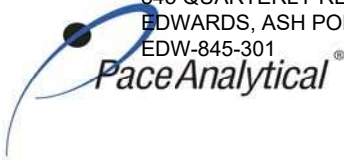
** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	MeOH (only) SBS DI	VIALS							AMBER GLASS						PLASTIC						OTHER			Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ ZnAc Black										
			R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B						BP3Z	CG3H	CG3F	Syringe Kit						
																																		HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9		
1						3																																	
2																																							
3																																							
4																																							
5																																							
6																																							
7																																							
8																																							
9																																							
10																																							
11																																							
12																																							

Container Codes

Glass			Plastic		
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unreserved plastic
DG9U	40mL unreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unreserved plastic
WGKU	8oz unreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Miscellaneous	
Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe



ANALYTICAL REPORT

July 25, 2023

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

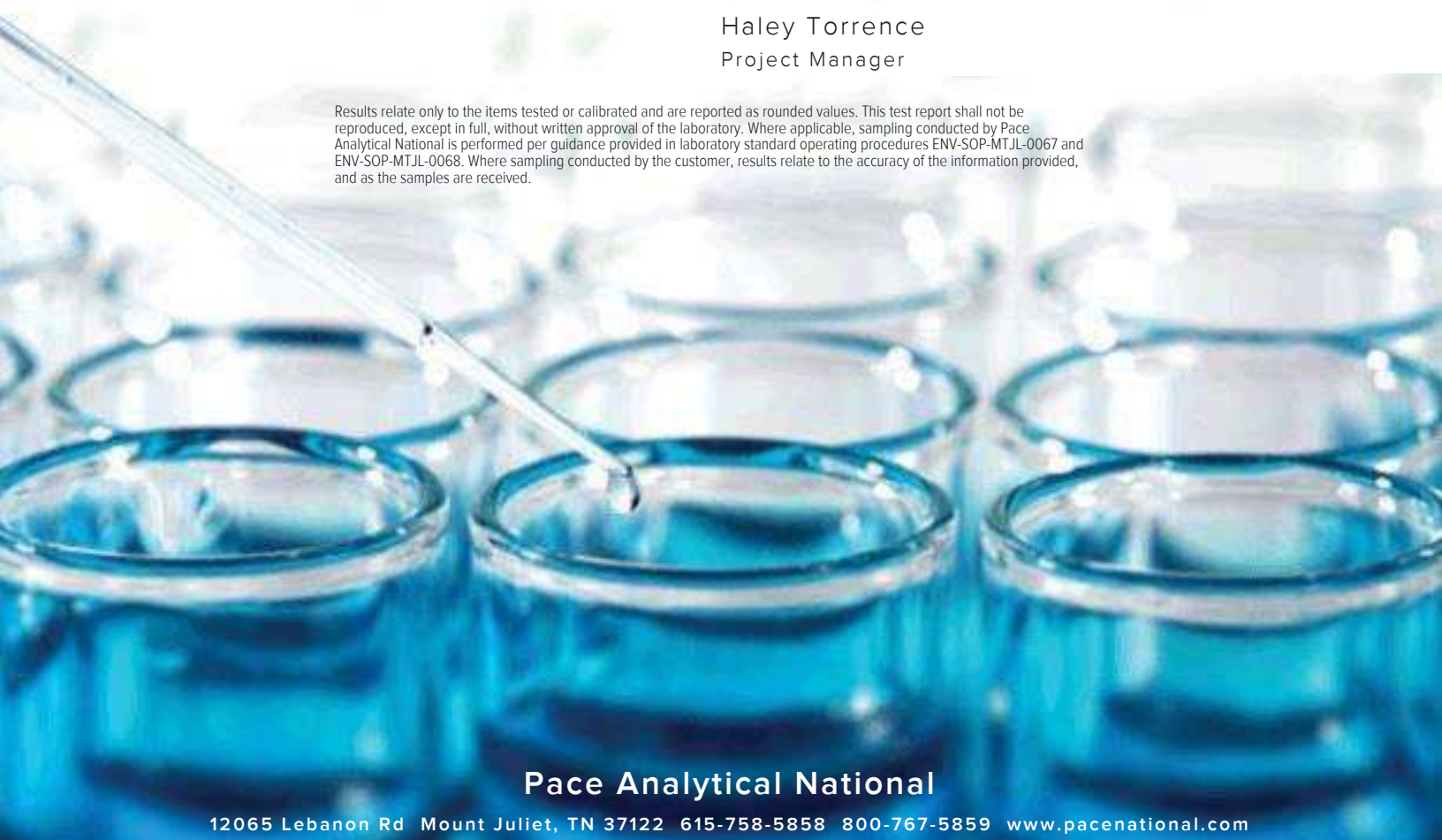
Pace IR - Peoria, IL

Sample Delivery Group: L1628597
Samples Received: 06/22/2023
Project Number: GF02943
Description: Vistra-Edwards
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
Project Manager

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

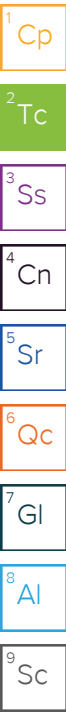


Pace Analytical National

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

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AP07S L1628597-01 Non-Potable Water

Collected by
 Collected date/time 06/15/23 11:03
 Received date/time 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094500	1	07/14/23 10:09	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094500	1	07/14/23 10:09	07/17/23 16:47	RGT	Mt. Juliet, TN

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

AW-05 L1628597-02 Non-Potable Water

Collected by
 Collected date/time 06/15/23 11:31
 Received date/time 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094500	1	07/14/23 10:09	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094500	1	07/14/23 10:09	07/17/23 16:47	RGT	Mt. Juliet, TN

EB-02 L1628597-03 Non-Potable Water

Collected by
 Collected date/time 06/15/23 14:00
 Received date/time 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094500	1	07/14/23 10:09	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094500	1	07/14/23 10:09	07/17/23 16:47	RGT	Mt. Juliet, TN

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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.539	J	0.622	1.14	07/20/2023 16:47	WG2093281
(T) Barium	64.7			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	94.0			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.20		0.709	1.19	07/20/2023 16:47	WG2094500

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.664		0.341	0.327	07/17/2023 16:47	WG2094500
(T) Barium-133	105			30.0-143	07/17/2023 16:47	WG2094500

- 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	2.55		0.685	1.18	07/20/2023 16:47	WG2093281
(T) Barium	66.6			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	96.6			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.09		0.753	1.22	07/20/2023 16:47	WG2094500

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.540		0.313	0.305	07/17/2023 16:47	WG2094500
(T) Barium-133	97.1			30.0-143	07/17/2023 16:47	WG2094500

- 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	0.234	<u>U</u>	0.470	0.850	07/20/2023 16:47	WG2093281
(T) Barium	74.6			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	102			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.323	<u>U</u>	0.491	0.879	07/20/2023 16:47	WG2094500

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0895	<u>J</u>	0.143	0.222	07/17/2023 16:47	WG2094500
(T) Barium-133	114			30.0-143	07/17/2023 16:47	WG2094500

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

Method Blank (MB)

(MB) R3952228-1 07/20/23 16:47

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-228	0.237	<u>J</u>	0.171	0.309
(T) Barium	86.7		86.7	
(T) Yttrium	106		106	

L1628597-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1628597-03 07/20/23 16:47 • (DUP) R3952228-5 07/20/23 16:47

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	0.234	0.470	0.850	-0.986	0.427	0.850	1	200	1.92	<u>U</u>	20	3
(T) Barium	74.6			88.3	88.3							
(T) Yttrium	102			96.1	96.1							

Laboratory Control Sample (LCS)

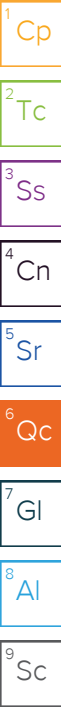
(LCS) R3952228-2 07/20/23 16:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-228	5.00	5.29	106	80.0-120	
(T) Barium			87.9		
(T) Yttrium			106		

L1628608-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628608-02 07/20/23 16:47 • (MS) R3952228-3 07/20/23 16:47 • (MSD) R3952228-4 07/20/23 16:47

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	16.7	-0.461	18.0	18.9	107	113	1	70.0-130			5.00		20
(T) Barium		82.0			82.6	79.5							
(T) Yttrium		109			106	93.4							



Method Blank (MB)

(MB) R3950475-1 07/17/23 16:47

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.0509		0.0411	0.0407
(T) Barium-133	93.1		93.1	

L1628597-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1628597-03 07/17/23 16:47 • (DUP) R3950475-5 07/17/23 16:47

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	0.0895	0.143	0.222	0.202	0.189	0.222	1	77.4	0.476	J	20	3
(T) Barium-133	114			111	111							

Laboratory Control Sample (LCS)

(LCS) R3950475-2 07/17/23 16:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.67	93.2	80.0-120	
(T) Barium-133			99.2		

L1628545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628545-01 07/17/23 16:47 • (MS) R3950475-3 07/17/23 16:47 • (MSD) R3950475-4 07/17/23 16:47

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	1.62	20.6	20.1	94.8	92.3	1	75.0-125			2.46		20
(T) Barium-133		94.1			88.1	98.7							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

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

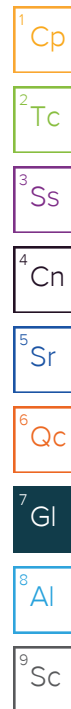
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

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



ACCREDITATIONS & LOCATIONS

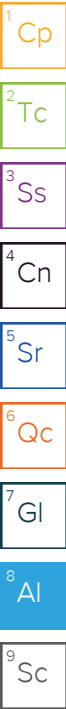
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Internal Transfer Chain of Custody

A037



State of Origin: IL
Cert. Needed: YES NO

Owner Received:
Date: 6/15/2023
Results Required By: 7/11/2023

Workorder: GF02943 Workorder Name: Vistra - Edwards

Report To: Gail Schindler Subcontract To: Pace Analytical - Mt Juliet

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

Preserved Containers

Radium 226/228

LAB USE ONLY
11628597

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix															
1	AP07S	GRAB	6/15/2023 11:03	GF02943-01	GW															
2	AW-05	GRAB	6/15/2023 11:31	GF02943-02	GW															
3	EB-02	GRAB	6/15/2023 14:00	GF02943-03	GW															
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1		6/21/23 1400			Needs reported as 226, 228 and also combined 226/228
2					
3			Hailey Feltner	6/22/23 0900	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.

PH-10BDH4321 TRC-2313210
CR6-20221V

Sample Receipt Checklist
 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

6319600L 0051 20.6±0=20.6
NSAD

6FO2086/2088
SMW 6-13-23

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 STATE: IL

Page: 1 of 2

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID/SLURRY 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		# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1			AP05S							
2			AP07S							
3			AW-01							
4			AW-05							
5			AW-06							
6			AW-08							
7			AW-09							
8			AW-10							
9			AW-11							
10			AW-14							
11			AW-15							
12			AW-15S							
13			AW-16							
14			AW-17							
15			AW-18							
16			AW-19							

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: Breiden Blum DATE: 6/12/23 TIME: 16:45

ACCEPTED BY / AFFILIATION: Van Wagon DATE: 6-13-23 TIME: 6:30

Temp in °C: 43

Received on Ice (Y/N): Y Cooled (Y/N): N Sealed (Y/N): N Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Breiden Blum DATE Signed (MM/DD/YYYY): 06/12/23
SIGNATURE of SAMPLER: Breiden Blum

CHAIN-OF-CUSTODY / Analytical Request Document

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

GFO 2086
Vmw 6-13-23

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 STATE: IL

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WF AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Y/N ↑ Analysis Test ↑	EDW-257-301 EDW-845-301 EDW-SUP-000	Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.
											Residual Chlorine (Y/N)		
1	AW-10		WTG	G	6/13/23 1320		15						
2	AW-11				6/13/23 1354								
3	AW-14				6/13/23 1120								
4	AW-17				6/13/23 1529								
5	XPW 02				6/13/23 1206								
6	XPW 03				6/13/23 1338								
7	AW-10 Dup				6/13/23 1520								

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: Jason R Reed DATE: 6/13/23 1651

ACCEPTED BY / AFFILIATION: Vanah Weyman DATE: 6-13-23 1651

TEMP IN °C: 17.7

RECEIVED ON: Y COOLER (Y/N): Y CUSTODY SEALED (Y/N): Y SAMPLES INTACT (Y/N): Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jason R Reed DATE Signed (MM/DD/YYYY): 6/13/23
SIGNATURE of SAMPLER: Jason R Reed

6/12/2023
 6-13-23

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 STATE: IL

Page: 1 of 2

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		# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1			AP05S							
2			AP07S							
3			AW-01							
4			AW-05							
5			AW-06							
6			AW-08							
7			AW-09							
8			AW-10							
9			AW-11							
10			AW-14							
11			AW-15							
12			AW-15S							
13			AW-16							
14			AW-17							
15			AW-18							
16			AW-19							

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: Breiden Blum DATE: 6/12/23 TIME: 16:45

ACCEPTED BY / AFFILIATION: Van Wagon DATE: 6-13-23 TIME: 6:30

Temp in °C: 43

Received on Ice (Y/N): Y

Custody Sealed (Y/N): N

Cooler (Y/N): N

Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Breiden Blum
 SIGNATURE of SAMPLER: Breiden Blum
 DATE Signed (MM/DD/YYYY): 06/12/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

5702086
Vmw 6-13-23

Required Client Information: Company: **Vistra Corp** Address: **13488 E. 900th St**
 Email To: Brian.Voelker@VistraCorp.com Phone: **(217) 753-8911** Fax:
 Requested Due Date/TAT: **10 day**

Required Project Information: Report To: **Brian Voelker** Copy To: **Jason Stuckey**
 Attention: **Jason Stuckey** Company Name: **Vistra Corp** Address: **see Section A**
 Quote Reference: Project Manager: Profile #:
 Project Number: **2285**

Invoice Information:

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OTHER OTHER AIR AR TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Y/N	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME					
1			AW-21								
2			SG-01								
3			XPW01A	G	6/12/23	1532	14				
4			XPW02								
5			XPW03								
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											

ADDITIONAL COMMENTS: **EDW-23Q2-Rev 0-Part A-Lab**

RELINQUISHED BY / AFFILIATION: *Brendan Blawie* DATE: **6/12/23** TIME: **1645**

ACCEPTED BY / AFFILIATION: *Van Wofgen* DATE: **6-13-23** TIME: **630**

SAMPLER NAME AND SIGNATURE: *Brendan Blawie*

PRINT Name of SAMPLER: *Brendan Blawie* DATE Signed (MM/DD/YYYY): **06/12/23**

SIGNATURE of SAMPLER: *Brendan Blawie*

Temp in °C: **4.3**

Received on Ice (Y/N): **Y**

Custody Sealed (Y/N): **N**

Samples Intact (Y/N): **Y**

GFO 2086
Vmw 6-13-23

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: Visira Corp
Address: 13498 E. 900th St
Email To: Brian.Voelker@VisiraCorp.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: Visira Corp
Address: see Section A
Quote Reference:
Project Manager:
Profile #:

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

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WF AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Y/N ↑ Analysis Test ↑	EDW-257-301 EDW-845-301 EDW-SUP-000	Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.
											Residual Chlorine (Y/N)		
1	AW-10		WTG	G	6/13/23 1320		15						
2	AW-11				6/13/23 1354								
3	AW-14				6/13/23 1120								
4	AW-17				6/13/23 1529								
5	XPW 02				6/13/23 1206								
6	XPW 03				6/13/23 1338								
7	AW-10 Dup				6/13/23 1520								

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: Jason R Reed DATE: 6/13/23 1651

ACCEPTED BY / AFFILIATION: Vanah Weyman DATE: 6-13-23 1651

TEMP IN °C: 17.7

RECEIVED ON: Y COOLING: Y CUSTODY SEALED: Y SAMPLES INTACT: Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jason R Reed
SIGNATURE of SAMPLER: Jason R Reed DATE Signed (MM/DD/YYYY): 6/13/23

GFO2645
Vmw 6-14-23

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 DRINKING WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WIP MATERIAL MAT OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		PRESERVATIVES	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	SAMPLE CONDITIONS
					DATE	TIME							
1			G1		6/14/23	1034	Unpreserved		6-14-23	1654	6-14-23	1654	Received on Ice (Y/N) Y
2			G1		6/14/23	1235	H ₂ SO ₄						Custody Sealed (Y/N) N
3			G1		6/14/23	1033	HCl						Temp in °C 20.5
4			G1		6/14/23	1421	NaOH						Residual Chlorine (Y/N)
5			G1		6/14/23	1208	Na ₂ S ₂ O ₃						
6			G1		6/14/23	1340	Methanol						
7			G1		6/14/23	1540	Other						
8			G1		6/14/23	1540							
9			G1		6/14/23	1603							
10													
11													
12													
13													
14													
15													
16													

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: *Brian Voelker* DATE: *6-14-23* TIME: *1654*

ACCEPTED BY / AFFILIATION: *Van Wyman* DATE SIGNED: *6/14/23* (MM/DD/YYYY)

SAMPLER NAME AND SIGNATURE: *Brian Voelker*

PRINT Name of SAMPLER: *Brian Voelker*

SIGNATURE of SAMPLER: *Brian Voelker*

DATE SIGNED: *6/14/23*

GFO 2677
Vmw 6-14-23

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**
Quota 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 MATERIALS CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID S SL OIL OIL WIRE WIRE AIR AIR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HCl NaOH Na ₂ O ₂ Methanol Other	Requested Analysis Filtered (Y/N)	Project No. / Lab I.D.
					DATE	TIME				
1	APO55		G1	G	6/14/23	1034	15			
2	AW-01		G1	G	6/14/23	1235	15			
3	AW-06		G1	G	6/14/23	1033	15			
4	AW-08		G1	G	6/14/23	1421	15			
5	AW-18		G1	G	6/14/23	208	15			
6	AW-19 vmw 6-14-23		G1	G	6/14/23	1340 015	15			
7	AW-19 FOR DUP		G1	G	6/14/23	1540 13:40	15			
8	AW-21		G1	G	6/14/23	1540 6:43	15			
9	vmw EB-1 EB-01		G1	G	6/14/23	1603	15			
10	6-14-23									
11										
12										
13										
14										
15										
16										

Section E
Additional Comments: **EDW-23Q2-Rev 0-Part A-Lab**

RELINQUISHED BY / AFFILIATION: *Brian Voelker* DATE: **6-14-23** TIME: **1654**

ACCEPTED BY / AFFILIATION: *Van Wygen* DATE: **6-14-23** TIME: **1654**

SAMPLER NAME AND SIGNATURE: *Brian Voelker* DATE SIGNED (MM/DD/YYYY): **6/14/23**

PRINT Name of SAMPLER: *Brian Voelker*

SIGNATURE of SAMPLER: *Brian Voelker*

Temp in °C: **20.5**

Received on Ice (Y/N): **Y**

Custody Sealed (Y/N): **N**

Cooler (Y/N): **N**

Samples Intact (Y/N): **Y**

GFO2896
ms 6-15-23

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 #	Valid Matrix CODE MATRIX DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID SL OIL OL WIPE WP WAX WX OTHER OT TISSUE TS	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ O ₃ Methanol Other	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1		APDTS	WTG		6/15/23	1103	15			
2		AW-05	WTG		6/15/23	1131	15			
3		FB-02			6/15/23	1400				
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: Joseph R Reed DATE: 6/15/23 TIME: 1522

ACCEPTED BY / AFFILIATION: Joe Reed DATE: 6-15-23 TIME: 1522

SAMPLER NAME AND SIGNATURE: Joseph R Reed

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed DATE Signed (MM/DD/YY): 6/15/23

RECEIVED ON: 6-15-23 Temp in °C: 23.3

Intact (Y/N): Y

Cooler (Y/N): N

Custody Sealed (Y/N): N

08/2-2-23

GFO2943
Vmw 6-15-23

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) 759-8911** 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: **IL**

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DW WT WV P SL CL WP AR OT IS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives Y/N	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1	APDTS		WTG		6/15/23	1103	15			
2	AW-05		WTG		6/15/23	1131	15			
3	FB-02				6/15/23	1400				
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: **Joseph R Reed** DATE: **6/15/23** TIME: **1522**

ACCEPTED BY / AFFILIATION: **Jason Stuckey** DATE: **6-15-23** TIME: **1522**

SAMPLER NAME AND SIGNATURE: **Joseph R Reed** PRINT Name of SAMPLER: **Joseph R Reed**

SIGNATURE of SAMPLER: *Joseph R Reed* DATE Signed (MM/DD/YYYY): **6/15/23**

Received on Ice (Y/N): **Y** N **Y** Samples Intact (Y/N): **Y** N **Y**

GF02943
Vmw 6-15-23.

COC #: 0615-001

Section A

Required Client Information:

Company: **Vistra Corp**
Address: **13488 E. 900th St**
Email To: **Brian.Voelker@VistraCorp.com**
Phone: **(217) 753-8811** Fax:
Requested Due Date/RTA: **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 #:

Section D

Required Client Information:

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

ITEM #	Section D Required Client Information			Section B Required Project Information		Section C Invoice Information		Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOILSOLID SL OIL OIL WASTE AIR WA AIR AIR OTHER OT TISSUE TS	SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	COLLECTED DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH + ZnAc Na ₂ O ₃ Methanol Other	Y/N	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.	
	Sample ID (A-Z, 0-9 / -)	Sample ID's MUST BE UNIQUE	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE												TIME
1	APW-01		GW	G	6/14/23	15:44													
2	AW-20				6/15/23	10:05													
3	AW-23				6/14/23	13:23													
4	EMW-05				6/15/23	07:44													
5	DUP-1				6/15/23	10:10													
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
ADDITIONAL COMMENTS																			
EDW-23Q2-Rev 0-Part B-Ramboil																			
EMW-05 = MS/MSDI																			

SAR-3: Depth to Groundwater Measurements

Plant: EDW

Event: EDW-23Q2 Rev 1

Well	Unique ID	Episodic	Transducer	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Transducer			Initials	
									WL from HOBConnect(ft)	Downloaded Y/N	Data Logger Serial No.		Batt (H/M/L)
AP05S	EDW AP05#S		X	301	AP						21629301		
AP07S	EDW AP07#S		X	301	AP						21615552		
AP08	EDW AP08	X		301	AP	6/12/23	10:34	9.31					BG
AP09	EDW AP09	X		301	AP	6/12/23	10:48	11.40					BG
APW-01	EDW APW-01	X		301	AP	6/12/23	11:04	6.76					BG
AW-01	EDW AW-01		X	301	AP						21615144		
AW-05	EDW AW-05		X	301	AP						21615132		
AW-06	EDW AW-06		X	301	AP						21615127		
AW-08	EDW AW-08		X	301	AP						21615722		
AW-09	EDW AW-09		X	301	AP						21615130		
AW-10	EDW AW-10		X	301	AP						21615754		
AW-11	EDW AW-11		X	301	AP						21615129		
AW-14	EDW AW-14	X		301	AP	6/12/23	10:35	7.33					BG
AW-15	EDW AW-15		X	301	AP						21615761		
AW-15S	EDW AW-15#S		X	301	AP						21629298		
AW-16	EDW AW-16		X	301	AP						21615714		
AW-17	EDW AW-17		X	301	AP						21615756		

SAR-3: Depth to Groundwater Measurements
 Plant: EDW
 Event: EDW-23Q2 Rev 1

Well	Unique ID	Episodic	Transducer	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	
									WL from HOBConnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		
AW-18	EDW_AW-18		X 301	301	AP									
AW-19	EDW_AW-19		X 301	301	AP									
AW-20	EDW_AW-20	X		301	AP	6/12/23	10:51	17.61					BG	
AW-21	EDW_AW-21		X 301	301	AP									
AW-23	EDW_AW-23		X 000	Ameren										
EMW-05	EDW_EMW-05		X 301	301	AP									
OW-01	EDW_OW-01	X		301	AP	6/12/23	10:27	24.39					BG	
OW-02	EDW_OW-02	X		301	AP	6/12/23	10:37	7.95					BG	
PTW-01	EDW_PTW-01	X		301	AP	6/12/23	10:24	26.08					BG	
PTW-02	EDW_PTW-02	X		301	AP	6/12/23	10:39	8.14					BG	
XPW01A	EDW_XPW01A_pore		X 301	301	AP									
XPW02	EDW_XPW02_pore		X 301	301	AP									
XPW03	EDW_XPW03_pore		X 301	301	AP									
SG-01	EDW_YILRIVER		X 301	301	AP	6/12/23	11:06	441.5						BG
SG-02	EDW_YSG-02	X		301	AP									
SG-03	EDW_YSG-03	X		301	AP									

Site: Edwards Ash Pond

WELL/SAMPLE POINT AP05S

Purge Method: Submersible

Date: 6/14/23 Start Time: 9:15 Finish/Sample Time: 10:34

Well Depth (Bottom) From MP: 40.10 ft Min. Purge Volume: 1.5 Gal/L

Depth to Water From MP: 5.71 ft Total Purge Volume: 1.8 Gal/L

Water Column Length: ft Max Drawdown: ft

Well Water Volume: Gal / L Total Drawdown: 0.18 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	9:39	5.90	100	6.84	1657	18.57	-150	0.08	1918
2	9:40	5.91	100	6.84	1678	18.55	-151	0.06	1983
3	9:41	5.91	100	6.85	1699	18.54	-151	0.06	1901
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

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)
	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)
3	A.V.U 40 ml
1	P, 2.5L, HNO3

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

1 P, 500 mL, NaOH + ZnAC

Ferrous Iron Over Range mg/L > 6
S/n-21629301

Comments very soft bottom

End DTW 5.89ft

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AP07S

Purge Method: submersible

Date: 6/15/23 Start Time: 945 Finish/Sample Time: 1103

Well Depth (Bottom) From MP: 37.31 ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 25.61 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: 311.70 ft Max Drawdown: _____ ft

Well Water Volume: 7.08 Gal (L) Total Drawdown: 0.15 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1009	26.20	100	686	1404	20.55	64.1	2.22	1240
2	1010	26.20	100	683	1423	20.55	63.2	2.15	1003
3	1011	26.20	100	682	1439	20.57	61.5	1.99	901
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

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) <u>1000 mL</u>
1	<u>NaOH + Zn Ac (500 mL)</u>
1	<u>2.5L HNO3</u>

(15)

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

Ferrous Iron 0.247 mg/L

Comments S/N - 216 15552

End DTW 25.76 Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-01

Purge Method: Bladder

Date: 6/14/23 Start Time: 1100 Finish/Sample Time: 1235

Well Depth (Bottom) From MP: 9ump ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 10.02 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: ft Max Drawdown: ft

Well Water Volume: Gal / L Total Drawdown: 10.74 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	1125	12.55	100	6.81	1231	18.57	-74	0.23	206
2	1126	12.79	100	6.81	1250	18.40	-73	0.19	196
3	1127	13.07	100	6.82	1275	18.22	-72	0.15	196
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

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)
	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) IL
3	A,V,U 40mL
1	P, 250 mL, HNO3
1	P, 500 mL, NaOH+ZnAC

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

Ferrous Iron 6.267 mg/L

Comments 5/12/16 15144

End DTW 20.76 Sampler's Signature: Joseph R Reed

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-05

Purge Method: Dedicated PUMP

Date: 6-15-23 Start Time: 09:50 Finish/Sample Time: 11:31

Well Depth (Bottom) From MP: 22.14 ft TOP OF PUMP Min. Purge Volume: 1.5 Gal/L
 Depth to Water From MP: 09:20 ft Total Purge Volume: 1.8 Gal/L
 Water Column Length: 12.94 ft Max Drawdown: NA ft
 Well Water Volume: 2.0 Gal/L Total Drawdown: 0.13 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	10:14	09.35	100	6.99	1,540	23.92	99	0.34	+1000
2	10:13	09.33	100	6.97	1,550	23.97	98	0.28	+1000
3	10:16	09.32	100	6.96	1,550	23.89	95	0.27	+1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

> 1000
> 1000
> 1000

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 type="checkbox"/>	<input checked="" type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input checked="" 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	<u>2.5% ZNAC</u>
1	<u>2.5% HCL</u>

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

Ferrous Iron 3.010 mg/L

Comments NA FD → 09.33

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-06

Purge Method: Bladder

Date: 6/14/23 Start Time: 0910 Finish/Sample Time: 1033

Well Depth (Bottom) From MP: 41.82 ft *end DTW* Min. Purge Volume: 1.5 Gal (L)
 Depth to Water From MP: 27.62 ft 37.55 Total Purge Volume: 1.9 Gal (L)
 Water Column Length: 14.20 ft Max Drawdown: ft
 Well Water Volume: 8.60 Gal (L) Total Drawdown: 9.93 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	0928	30.38	100	7.06	1050	16.13	-98	1.50	379
2	0929	30.53	100	7.09	1060	16.15	-98	1.43	370
3	0930	30.60	100	7.09	1030	16.18	-99	1.41	340
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)
	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) 1L
3	A.V.U. 40mL
1	P, 2.5L HNO3

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

Ferrous Iron 2.250 mg/L

Comments Transducer # 21615127

Sampler's Signature: Brendan [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-08

Purge Method: Pump

Date: 6/13/23 Start Time: 1303 Finish/Sample Time: 1424

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

Depth to Water From MP: 23.92 ft Total Purge Volume: 1.9 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	1320	26.44	100	7.13	1322	19.38	-153	8.14	0.0
2	1321	26.62	100	7.12	1350	19.38	-150	8.15	0.0
3	1322	26.80	100	7.09	1353	19.38	-141	8.16	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

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)
	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)
3	A.V, 40mL
1	P, 2.5L, HNO3
1	P, 500mL, NaOH + Zr AC

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

Ferrous Iron OVER Range mg/L

Comments

End 36.56
DTW

Sampler's Signature: Joseph R Reed

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-09

Purge Method: Dedicated Bladder

Date: 6/12/23 Start Time: 1234 Finish/Sample Time: 1405

Well Depth (Bottom) From MP: 47.20 ft
 Depth to Water From MP: 26.65 ft
 Water Column Length: 20.55 ft
 Well Water Volume: 12.45 Gal / L

Min. Purge Volume: 1.5 Gal / L
 Total Purge Volume: 1.8 Gal / L
 Max Drawdown: — ft
 Total Drawdown: — ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1256	29.89	100	6.89	1540	16.22	-122	1.88	72.0
2	1257	30.03	100	6.89	1540	16.21	-122	1.79	70.9
3	1258	30.19	100	6.89	1550	16.19	-122	1.71	67.2
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 type="checkbox"/>	<input checked="" type="checkbox"/>
Well cap fits securely.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Good seal/drainage	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	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) JL
1	P, 2.5L, HNO3
1	P, 500mL, NaOH + ZnAc
3	A, V, U, 40mL

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

Ferrous Iron Over Range ^{> 6} mg/L

Comments Transducer # 21615130
Photometer sample was bright orange.

Sampler's Signature: Brendan Blinn

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-10

Purge Method: JR Submersible Bladder

Date: 6/13/23 Start Time: 1304 Finish/Sample Time: 1520

Well Depth (Bottom) From MP: Pump ft Min. Purge Volume: 1.5 Gal / L
 Depth to Water From MP: 1.96 ft Total Purge Volume: 1.8 Gal / L
 Water Column Length: — ft Max Drawdown: — ft
 Well Water Volume: — Gal / L Total Drawdown: 7.12 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	1321	3.18	100	6.92	2202	21.40	-153	0.02	1831
2	1322	3.24	100	6.91	2188	21.29	-153	0.02	1002
3	1323	3.31	100	6.91	2174	21.09	-151	0.01	991
4	_____								
5	_____								
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

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

BOTTLE INFORMATION:

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

(15)
+
(15)

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

Ferrous Iron Over Range ^{>6} mg/L

Comments: Well has a duplicate taken

End DTW
9.08

Sampler's Signature: Joseph A. Paul

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-11

Purge Method: B ladder

Date: 6/13/23 Start Time: 1129 Finish/Sample Time: 1254

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

Depth to Water From MP: 5.72 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: - ft Max Drawdown: - ft

Well Water Volume: - Gal / L Total Drawdown: 0.01 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	1145	5.79	100	7.05	1776	17.60	-163	0.02	312
2	1146	5.79	100	7.04	1760	17.58	-162	0.07	321
3	1147	5.79	100	7.03	1757	17.58	-160	0.10	329
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

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, 25 mL) <u>1000mL</u>
1	<u>2.5L HNO3</u>
1	<u>NaOH + Zn Ac (500mL)</u>

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

Ferrous Iron Over Range ^{>6} mg/L

Comments End DTW - 5.73

Sampler's Signature: Joseph R Reed

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-14

Purge Method: B ladder

Date: 6/13/23 Start Time: 1000 Finish/Sample Time: 1120

Well Depth (Bottom) From MP: 7.29 ft
 Depth to Water From MP: 7.29 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: — ft
 Total Drawdown: 11.16 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 16	9.50	100	6.88	1873	18.11	-152	0.15	5.77
2	10 17	9.65	100	6.88	1874	18.09	-152	0.15	15.05
3	10 18	9.80	100	6.88	1875	17.95	-152	0.14	10.41
4	—————								
5	—————								
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT600

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, 50 mL) <u>1000 mL</u>
1	<u>NaOH + ZnAc (500mL)</u>
1	<u>2.5 L HNO3</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 50 mL) <u>1000 mL</u>
3	<u>TOC</u>

Ferrous Iron Over Range ^{>6} mg/L

Comments EndPTW 18.45

Sampler's Signature: Joseph R Reed

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-15

Purge Method: Dedicated PUMP

Date: 6-12-23 Start Time: 13:07 Finish/Sample Time: 14:35

Well Depth (Bottom) From MP: PUMP ft
 Depth to Water From MP: 08.48 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: 0.08 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	13:27	8.54	100	6.63	1,980	17.56	-97	0.38	43.8
2	13:28	8.53	100	6.62	1,980	17.43	-98	0.36	44.1
3	13:29	8.55	100	6.63	1,970	17.39	-101	0.27	46.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

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

Well Integrity	Yes	No
Well has ID sign	<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)
	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) 1L
1	P, 2.5L, HNO3
1	P, 500 mL, NaOH + Zn AC
3	A,V, U, 40 mL

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

Ferrous Iron > 6 OVER RANGE mg/L

Comments FD -> 08.56

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-15S

Purge Method: Bladder

Date: 6/12/23 Start Time: 1225 Finish/Sample Time: 1329

Well Depth (Bottom) From MP: JR Pump 885 ft Min. Purge Volume: 1.5 Gal/L

Depth to Water From MP: 987 ft Total Purge Volume: 1.8 Gal/L

Water Column Length: - ft Max Drawdown: - ft

Well Water Volume: - Gal/L Total Drawdown: 5.07 ft

End DTW 14.90

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	1245	1138	100	6.66	1840	15.86	42	6.20	29.1
2	1246	1140	100	6.66	1830	15.85	40	6.09	23.8
3	1247	1139	100	6.65	1840	15.95	38	6.00	29.1
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

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

Well Integrity	Yes	No
Well has ID sign	<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 + 1	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) 1000
1	2.52 HNO3
1	NaOH + ZnAc 500mL

15

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

Ferrous Iron 0.109 mg/L

Comments

Sampler's Signature: Joseph R Reed

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-16

Purge Method: Bladder

Date: 6/12/23 Start Time: 1445 Finish/Sample Time: 1552

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

Depth to Water From MP: 2030 ft Total Purge Volume: 1.8 Gal/L

Water Column Length: — ft Max Drawdown: — ft

Well Water Volume: — Gal/L Total Drawdown: 5.43 ft *End DTM = 25.73*

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	1504	25.73	100	6.54	2110	17.90	-100	0.61	91.9
2	1505	25.73	100	6.53	2120	17.90	-100	0.57	80.2
3	1506	25.73	100	6.51	2110	17.88	-101	0.51	77.4
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) 1000 mL
1	2.5L HNO3
1	NaOH + ZnAc 500mL

15

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

Ferrous Iron Over Range ^{>6} mg/L

Comments

Sampler's Signature: Joseph A. Reed

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-17

Purge Method: Dedicated Bladder

Date: 6/13/23 Start Time: 1350 Finish/Sample Time: 1520

Well Depth (Bottom) From MP: 56.25 ft
 Depth to Water From MP: 25.38 ft
 Water Column Length: 30.87 ft
 Well Water Volume: 18.69 Gal $\text{\textcircled{D}}$
 Min. Purge Volume: 1.6 Gal $\text{\textcircled{D}}$
 Total Purge Volume: 1.9 Gal $\text{\textcircled{D}}$
 Max Drawdown: — ft
 Total Drawdown: 1.81 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1410	26.55	100	7.08	1890	17.20	-111	0.64	198
2	1411	26.61	100	7.06	1910	17.11	-111	0.61	150
3	1412	26.60	100	7.05	1910	17.65	-111	0.69	124
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)
	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) 1L
3	A.V.U, 40mL
1	P, 2.5L, HNO3
1	P, 500mL, NaOH + Zn AC

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

Ferrous Iron Over Range ^{>6} mg/L

Comments Transducer # 2161575G

Sampler's Signature: Brenden [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-18

Purge Method: Bladder

Date: 6/13¹⁴ 22 Start Time: 1044 Finish/Sample Time: 1208

Well Depth (Bottom) From MP: 51.62 ft Min. Purge Volume: 1.5 Gal L
 Depth to Water From MP: 28.14 ft Total Purge Volume: 1.8 Gal L
 Water Column Length: 23.48 ft Max Drawdown: — ft
 Well Water Volume: 14.22 Gal L Total Drawdown: 4.39 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	1059	29.62	100	6.73	1820	17.68	-102	1.92	235
2	1100	29.71	100	6.73	1810	17.58	-103	1.80	221
3	1101	29.77	100	6.73	1790	17.52	-105	1.73	218
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)
	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) 1L
3	A,V,U, 40mL
1	P, 2.5L, HNO3
1	P, 500mL, NaOH+ZnAc

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

Ferrous Iron >6 Over Range mg/L

Comments Transducer # 21615763

Sampler's Signature: Brendan [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT **AW-19**

Purge Method: Bladder

Date: 6/13/23 Start Time: 12:17 Finish/Sample Time: 1340

Well Depth (Bottom) From MP: 38.34 ft
 Depth to Water From MP: 14.70 ft
 Water Column Length: 23.64 ft
 Well Water Volume: 14.32 ~~8.26~~ Gal (L)
 Min. Purge Volume: 1.5 Gal (L)
 Total Purge Volume: 1.8 Gal (L)
 Max Drawdown: ft
 Total Drawdown: 3.20 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	1235	16.41	100	6.93	1120	17.06	-52	2.31	34.2
2	1236	16.48	100	6.93	1110	17.02	-52	2.36	31.4
3	1237	16.55	100	6.94	1110	16.99	-52	2.33	27.9
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)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3+3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1+1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1+1	General (P, 250 mL)
3+3	A V 40 mL, U
1+1	P, 2.5L, HNO3
1+1	P, 500ml, NaOH+ZnAc

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

Ferrous Iron Over Range ^{>6} mg/L

Comments: Transducer #21615718 Field Dupe filled here

Sampler's Signature: Brendan Hagan

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-21

Purge Method: Bladder

Date: 6/13/23 ^{14 Dec} Start Time: 1418 Finish/Sample Time: 1540

Well Depth (Bottom) From MP: 33.50 ft Top of Pump Min. Purge Volume: 1.5 Gal L

Depth to Water From MP: 18.48 ft Total Purge Volume: 1.8 Gal L

Water Column Length: — ft Max Drawdown: — ft

Well Water Volume: — Gal / L Total Drawdown: 1.56 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	1433	19.49	100	7.10	975	17.51	-22	2.77	6.6
2	1434	19.57	100	7.11	980	17.46	-25	2.74	5.6
3	1435	19.56	100	7.12	983	17.41	-28	2.71	6.4
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)
	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) / L
3	A.V. 40 mL
1	P. 2.5L HNO3
1	P. 500 mL NaOH + Zn AC

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

Ferrous Iron 1.445 mg/L

Comments: Transducer # 21615514

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT XPW01A

Purge Method: Dedicated Bladder

Date: 6/12/23 Start Time: 1402 Finish/Sample Time: 1532

Well Depth (Bottom) From MP: 36.43 ft
 Depth to Water From MP: 12.94 ft 13.02
 Water Column Length: 23.49 ft
 Well Water Volume: 14.23 Gal / (L)
 Min. Purge Volume: 1.5 Gal / (L)
 Total Purge Volume: 1.8 Gal / (L)
 Max Drawdown: — ft
 Total Drawdown: 0.08 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	1442	13.12	100	11.85	2120	17.54	-121	2.39	0.0
2	1443	13.12	100	11.86	2120	17.45	-124	2.27	0.0
3	1444	13.12	100	11.86	2110	17.41	-125	2.24	0.0
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)
	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) 1L
1	P, 500mL, NaOH+ZnAC
3	A, V, U, 40mL

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

Ferrous Iron 0.131 mg/L

Comments Transducer #21615740

Sampler's Signature: Bredan Gibson

Site: Edwards Ash Pond

WELL/SAMPLE POINT XPW02

Purge Method: Dedicated Bladder

Date: 6/13/23 Start Time: ~~0955~~ 864 Finish/Sample Time: 1206

Well Depth (Bottom) From MP: 40.63 ft 1042 Min. Purge Volume: 1.5 Gal / L
 Depth to Water From MP: 22.13 ft Total Purge Volume: 1.9 Gal / L
 Water Column Length: 18.50 ft Max Drawdown: _____ ft
 Well Water Volume: 11.20 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	1059	22.13	100	12.28	5030	17.27	-109	1.44	9.9
2	1100	22.13	100	12.28	5050	17.23	-110	1.37	8.7
3	1101	22.13	100	12.29	5010	17.13	-113	1.30	8.8
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)
	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) 1L
3	A.V.U 40mL
1	P, 2.5L, HNO3
1	P, 500ml, NaOH + ZnAc

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

Ferrous Iron 6.532 mg/L

Comments Transducer #21615752

Sampler's Signature: Brendan Glenn

Site: Edwards Ash Pond

WELL/SAMPLE POINT XPW03

Purge Method: Dedicated Bladder

Date: 6/13/23 Start Time: 1215 Finish/Sample Time: 1338

Well Depth (Bottom) From MP: 31.52 ft
 Depth to Water From MP: 18.22 ft
 Water Column Length: 13.30 ft
 Well Water Volume: 8.05 Gal
 Min. Purge Volume: 1.5 Gal
 Total Purge Volume: 1.8 Gal
 Max Drawdown: — ft
 Total Drawdown: 0.18 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1233	18.40	100	11.82	2200	17.81	-196	3.72	2.1
2	1234	18.40	100	11.86	2190	17.67	-198	3.68	6.1
3	1235	18.40	100	11.90	2170	17.74	-199	3.66	5.0
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)
	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)
3	A.V. U 40ml
1	2.5L P, HNO3
1	P, 500mL, NaOH + Zn AC

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

Ferrous Iron 5.521 mg/L

Comments Transducer # 21629300

Sampler's Signature: Brendan Bluma

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Brendan Glennon</u>				Location: <u>Edwards</u>					
Weather: <u>65° Mostly Sunny 12 mph SE</u>				Environment: <u>Gravel</u>					
Multiparameter Water Meter		Make: <u>AQ Horiba</u>	Model: <u>800</u>	Serial Number: <u>PW2G4J03</u>					
Water Level Meter		Make: <u>Itron</u>	Model: <u>200</u>	Serial Number: <u>19FF211192HB</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.92</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>0.0</u>	µS/cm	0 < 25 µS/cm	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2000</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Geotech	4GK328	Nov-22
ORP	<u>240</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>N/A</u>	InSitu	2GC827	Dec-22
DO (Zero pt)	<u>0.05</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.7</u>	%	97-100%	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	< 2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)							Time: <u>1120</u>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.15</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC243	Mar-24	
pH 7.00b	<u>6.93</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>9.86</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE820	May-24	
SC 1000	<u>1010</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):							Time: <u>1600</u>		
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1031</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.05</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	< 2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):							Time:		
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-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>Brendan Glennon</u>	Date: <u>6/12/23</u>
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SC 2000
 2GK2084
 Exp. Nov-23
 W-118
 ORP
 3GD927
 Exp. Jan-24
 BG 8/9/23

Multiparameter Meter Field Calibration Checklist

Field Personnel: Kyle Lane				Location: EDWARDS POND					
Weather: 59° to 75° sunny				Environment: Dry					
Multiparameter Water Meter		Make: Haniba	Model: V-5000	Serial Number: SL9K594A					
Water Level Meter		Make: Heron	Model: Water level	Serial Number: 19FF2202131ML					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.	P			MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	±0.1 s.u.	P			MSI	M082-04	3/25/2024
SC Zero (DI)	0.00	µS/cm	0<25 µS/cm	P			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2030	µS/cm	±5%	P			Geotech	3GA1071	Jan-24
ORP	214	mV	±15 mV	P			InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1	P			Macron	#000228049	8/26/2025
DO (Saturated)	98.40	%	97-100%	P			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.33	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:			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	3.92	s.u.	±0.15 s.u.	P	NA		Geotech	2GE870	Mar-24
pH 7.00b	6.89	s.u.	±0.15 s.u.	P			Geotech	2GC931	Mar-24
pH 10.00b	9.92	s.u.	±0.15 s.u.	P			Geotech	2GE820	May-24
SC 1000	1000	µS/cm	±5%	P			Ricca	4207N97	Jul-24

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	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

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	4.04	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
7.00a	7.00	s.u.	±0.1 s.u.	P			MSI	L343-07	12/9/2023
10.00a	10.00	s.u.	±0.1 s.u.	P			MSI	M082-04	3/25/2024
SC 1000	1020	µS/cm	±5%	P			Ricca	4207N97	Jul-24
DO (Zero pt)	0.06	mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: Kyle Lane	Date: 6-12-23
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Multiparameter Meter Field Calibration Checklist

Field Personnel: Joe Reed				Location: Edwards power station					
Weather:				Environment: dusty/gravel/grass					
Multiparameter Water Meter		Make: AquaTrol	Model: 600	Serial Number: 739449					
Water Level Meter		Make: Solis	Model: 100	Serial Number: 33459					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	1.5	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2011	µS/cm	±5%	P	N		Geotech	1GK328	Nov-22
ORP	231	mV	±15 mV	P	N		InSitu	2GC827	Dec-22
DO (Zero pt)	0.04	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	98.9	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	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: 935				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	3.99	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24	
pH 7.00b	7.00	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24	
pH 10.00b	7.98	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24	
SC 1000	1009.	µS/cm	±5%	P	N	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1550				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	N		MSI	L315-04	11/22/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	P	N		MSI	L172-33	6/23/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	N		MSI	L354-22	1/5/2024
SC 1000	1019	µS/cm	±5%	P	N		Ricca	2108D48	Jul-23
DO (Zero pt)	0.04	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		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	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-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: Joseph R Reed	Date: 6/13/23
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SC 2000
 26K086
 Exp. Nov 23
 Lt 1/18
 ORP
 36D927
 Exp. Jan 24
 BG
 8/9/23

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Brendan Glennon</u>				Location: <u>Edwards</u>			
Weather: <u>69° Mostly Cloudy 12 mph E</u>				Environment: <u>Gravel Road</u>			
Multiparameter Water Meter		Make: <u>Hanna</u>	Model: <u>B052</u>	Serial Number: <u>PLW2647D3</u>			
Water Level Meter		Make: <u>Heron</u>	Model: <u>Direct</u>	Serial Number: <u>19FF2111924B</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.07</u>	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.08</u>	s.u.	±0.1 s.u.	P	N	N/A	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	P	N	N/A	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>11.12</u>	µS/cm	0<25 µS/cm	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2080</u>	µS/cm	±5%	P	N	N/A	Geotech	1GK328	Nov-22
ORP	<u>241</u>	mV	±15 mV	P	N	N/A	InSitu	2GC827	Dec-22
DO (Zero pt)	<u>0.07</u>	mg/L	±0.1	P	N	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.1</u>	%	97-100%	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>0910</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.10</u>	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24	
pH 7.00b	<u>7.04</u>	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24	
pH 10.00b	<u>10.00</u>	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24	
SC 1000	<u>1010</u>	µS/cm	±5%	P	N	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>1540</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.08</u>	s.u.	±0.1 s.u.	P	N	N/A	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.08</u>	s.u.	±0.1 s.u.	P	N	N/A	MSI	L172-33	6/23/2023
pH 10.00a	<u>9.91</u>	s.u.	±0.1 s.u.	P	N	N/A	MSI	L354-22	1/5/2024
SC 1000	<u>1041</u>	µS/cm	±5%	P	N	N/A	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1 mg/L	P	N	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	P	N	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.	P	N	N/A	MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.	P	N	N/A	MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.	P	N	N/A	MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%	P	N	N/A	Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L	P	N	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>Brendan Glennon</u>	Date: <u>6/13/23</u>
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LU
 7/21
 SC 2000
 2GK0816
 Nov. 23
 LU 7/18
 ORP
 3G0927
 Exp Jan-24
 8G 8/4/23

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Brendan Glennon</u>			Location: <u>Edwards</u>		
Weather: <u>70° Partly Cloudy 4 mph S</u>			Environment: <u>Gravel Road</u>		
Multiparameter Water Meter	Make: <u>Horiba</u>	Model: <u>D-5000</u>	Serial Number: <u>PW2G4JDB</u>		
Water Level Meter	Make: <u>Heron</u>	Model: <u>200ft.</u>	Serial Number: <u>19FF211192HB</u> ^{#2}		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.94</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>9.96</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>18</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1430</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Geotech	16K328	Nov-22
ORP	<u>235</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>N/A</u>	InSitu	26C827	Dec-22
DO (Zero pt)	<u>0.08</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.1</u>	%	97-100%	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>0820</u>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.10</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC243	Mar-24
pH 7.00b	<u>7.06</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC931	Mar-24
pH 10.00b	<u>9.91</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE820	May-24
SC 1000	<u>981</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>1545</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1014</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-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>Brendan Glennon</u>	Date: <u>5/13/23</u> <u>14:00</u>
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SC 2000
267K0816
Nov-23
14 7/18
ORP
3610927
Exp Jun-24
8/9/23

Multiparameter Meter Field Calibration Checklist

Field Personnel: Joe Reed				Location: Edwards Power					
Weather: 70° Part Cloudy Wind 4mph				Environment: Dusty Gravel / grass					
Multiparameter Water Meter		Make: Aquatroll	Model: 600	Serial Number: 739449					
Water Level Meter		Make: Solinst	Model: 101	Serial Number: 33459					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	N	/	MSI	L344-09	12/14/2023
pH 7.00a	7.02	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	4.51	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	22.6	µS/cm	±5%	P	N		Geotech	1GK328	Nov-22
ORP	226	mV	±15 mV	P	N		InSitu	2GC827	Dec-22
DO (Zero pt)	0.04	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	99.1	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

23°C

SC 2000
 2GK D84
 Nov 23
 LM 7/18
 ORP
 3G0927
 Exp. Jan 24
 8/19/23

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: 855			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24	
pH 7.00b	7.00	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24	
pH 10.00b	9.99	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24	
SC 1000	1022	µS/cm	±5%	P	N	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: 1600			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	N	/	MSI	L315-04	11/22/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	N		MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.	P	N		MSI	L354-22	1/5/2024
SC 1000	1009	µS/cm	±5%	P	N		Ricca	2108D48	Jul-23
DO (Zero pt)	0.07	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.1	NTU	<2 NTU	P	N		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	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-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: Joseph A. Reed	Date: 6/14/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kille Lane			Location:	EDWARDS POND				
Weather:	55° to 91° sunny			Environment:	DTH				
Multiparameter Water Meter	Make:	HORIBA	Model:	U-5000	Serial Number:	GL9KJ9HA			
Water Level Meter	Make:	HERON	Model:	WATER TAP	Serial Number:	19FF2202131M2			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	2.81	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	µS/cm	±5%	P	NA	NA	Geotech	3GA1071	Jan-24
ORP	116	mV	±15 mV	P	NA	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	0.03	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	98.6	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0	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: 09:18

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.97	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	Mar-24
pH 7.00b	6.94	s.u.	±0.15 s.u.	P	NA	Geotech	2GC931	Mar-24
pH 10.00b	9.96	s.u.	±0.15 s.u.	P	NA	Geotech	2GE820	May-24
SC 1000	940	µS/cm	±5%	P	NA	Ricca	4207N97	Jul-24

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	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time: 13:29

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.00	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
7.00a	7.01	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
10.00a	10.06	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC 1000	1006	µS/cm	±5%	P	NA	NA	Ricca	4207N97	Jul-24
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:

ver

Signature:

[Handwritten Signature]

Date:

6-15-23

Multiparameter Meter Field Calibration Checklist

Field Personnel: Joe Reed	Location: Edward Power Station
Weather: 75-91°F Sunny wind 4-8 mph	Environment: Gravel / Dusty / grassy
Multiparameter Water Meter	Make: Aquatroll Model: 600 Serial Number: 739449
Water Level Meter	Make: Solinst Model: 101 Serial Number: IR 739449 33459

2487

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	N	/	MSI	L344-09	12/14/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	1.1	µS/cm	0 < 25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2002.1	µS/cm	±5%	P	N		Geotech	3GA1071	Jan-24
ORP	220.1	mV	±15 mV	P	N		InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	97.9	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	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:			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Time: 915	Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	P		/	Geotech	2GE870	Mar-24
pH 7.00b	7.02	s.u.	±0.15 s.u.	P			Geotech	2GC931	Mar-24
pH 10.00b	10.00	s.u.	±0.15 s.u.	P			Geotech	2GE820	May-24
SC 1000	991	µS/cm	±5%	P			Ricca	4207N97	Jul-24

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	4.03	s.u.	±0.1 s.u.	P	N	/	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC 1000	1011	µS/cm	±5%	P	N		Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		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	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: Joseph A Reed	Date: 6/15/23
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Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

August 09, 2023

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

Dear Brian Voelker:

Please find enclosed the **revised** 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.

Gail Schindler

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2023
EDWARDS, ASH POND
EDW-845-301



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

Revised Report - added batch QC forms.

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GF02088

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
YES	Case narrative provided

Work Order GF02677

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 GF02943

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

ANALYTICAL RESULTS

Sample: GF02088-01
Name: AW-09
Matrix: Ground Water - Grab

Sampled: 06/12/23 14:05
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Dissolved Gases by GC/FID - Pace Analytical - Indianapolis</u>									
Methane	23700	mg/L		06/12/23 14:05	1	20	06/23/23 13:48		Subcontracted - RSK-175

Sample: GF02088-02
Name: AW-15
Matrix: Ground Water - Grab

Sampled: 06/12/23 14:35
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Dissolved Gases by GC/FID - Pace Analytical - Indianapolis</u>									
Methane	48500	mg/L		06/12/23 13:07	1	50	06/23/23 08:19		Subcontracted - RSK-175

Sample: GF02088-03
Name: AW-15S
Matrix: Ground Water - Grab

Sampled: 06/12/23 13:29
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Dissolved Gases by GC/FID - Pace Analytical - Indianapolis</u>									
Methane	<10	mg/L		06/12/23 13:29	1	10	06/22/23 16:24		Subcontracted - RSK-175

Sample: GF02088-04
Name: AW-16
Matrix: Ground Water - Grab

Sampled: 06/12/23 15:52
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Dissolved Gases by GC/FID - Pace Analytical - Indianapolis</u>									
Methane	60400	mg/L		06/12/23 15:52	1	50	06/23/23 08:40		Subcontracted - RSK-175

ANALYTICAL RESULTS

Sample: GF02088-05
Name: XPW01A
Matrix: Ground Water - Grab

Sampled: 06/12/23 15:32
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	951	mg/L		06/12/23 15:32	1	10	06/23/23 13:26		Subcontracted - RSK-175

Sample: GF02088-06
Name: AW-10
Matrix: Ground Water - Grab

Sampled: 06/13/23 15:20
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	65500	mg/L		06/13/23 15:20	1	50	06/23/23 09:02		Subcontracted - RSK-175

Sample: GF02088-07
Name: AW-10 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 06/13/23 15:20
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	61600	mg/L		06/13/23 15:20	1	50	06/23/23 09:24		Subcontracted - RSK-175

Sample: GF02088-08
Name: AW-11
Matrix: Ground Water - Grab

Sampled: 06/13/23 12:54
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	47300	mg/L		06/13/23 12:54	1	50	06/23/23 09:46		Subcontracted - RSK-175

ANALYTICAL RESULTS

Sample: GF02088-09
Name: AW-14
Matrix: Ground Water - Grab

Sampled: 06/13/23 11:20
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	42600	mg/L		06/13/23 11:20	1	50	06/23/23 10:08		Subcontracted - RSK-175

Sample: GF02088-10
Name: AW-17
Matrix: Ground Water - Grab

Sampled: 06/13/23 15:20
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	59600	mg/L		06/13/23 15:20	1	50	06/23/23 14:10		Subcontracted - RSK-175

Sample: GF02088-11
Name: XPW02
Matrix: Ground Water - Grab

Sampled: 06/13/23 12:06
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	145	mg/L		06/13/23 12:06	1	10	06/23/23 14:31		Subcontracted - RSK-175

Sample: GF02088-12
Name: XPW03
Matrix: Ground Water - Grab

Sampled: 06/13/23 13:38
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	920	mg/L		06/13/23 13:38	1	10	06/23/23 13:02		Subcontracted - RSK-175

ANALYTICAL RESULTS

Sample: GF02677-01
Name: AP05S
Matrix: Ground Water - Grab

Sampled: 06/14/23 10:34
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	10400	mg/L		06/14/23 10:34	5	50	06/28/23 16:26		Subcontracted - RSK-175

Sample: GF02677-02
Name: AW-01
Matrix: Ground Water - Grab

Sampled: 06/14/23 12:35
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	982	mg/L		06/14/23 12:35	1	10	06/28/23 16:47		Subcontracted - RSK-175

Sample: GF02677-03
Name: AW-06
Matrix: Ground Water - Grab

Sampled: 06/14/23 10:33
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	<10	mg/L		06/14/23 10:33	1	10	06/23/23 17:47		Subcontracted - RSK-175

Sample: GF02677-04
Name: AW-08
Matrix: Ground Water - Grab

Sampled: 06/14/23 14:24
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	3530	mg/L		06/14/23 14:24	1	10	06/23/23 18:08		Subcontracted - RSK-175

ANALYTICAL RESULTS

Sample: GF02677-05
Name: AW-18
Matrix: Ground Water - Grab

Sampled: 06/14/23 12:08
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	46200	mg/L		06/14/23 12:08	5	50	06/28/23 17:08		Subcontracted - RSK-175

Sample: GF02677-06
Name: AW-19
Matrix: Ground Water - Grab

Sampled: 06/14/23 13:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	17.1	mg/L		06/14/23 13:40	1	10	06/28/23 17:30		Subcontracted - RSK-175

Sample: GF02677-07
Name: AW-19 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 06/14/23 13:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	21.9	mg/L		06/14/23 13:40	1	10	06/23/23 19:33		Subcontracted - RSK-175

Sample: GF02677-08
Name: AW-21
Matrix: Ground Water - Grab

Sampled: 06/14/23 15:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	<10	mg/L		06/14/23 15:40	1	10	06/23/23 19:54		Subcontracted - RSK-175

ANALYTICAL RESULTS

Sample: GF02677-09
Name: EB-01
Matrix: Ground Water - Equipment Blank

Sampled: 06/14/23 16:03
Received: 06/14/23 16:54
PO #: 1940007191

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

Methane	<10	mg/L		06/14/23 16:03	1	10	06/23/23 20:15		Subcontracted - RSK-175
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Sample: GF02943-01
Name: AP07S
Matrix: Ground Water - Grab

Sampled: 06/15/23 11:03
Received: 06/15/23 15:22
PO #: 1940007191

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

Methane	<10	mg/L		06/15/23 11:03	1	10	06/23/23 20:36		Subcontracted - RSK-175
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Sample: GF02943-02
Name: AW-05
Matrix: Ground Water - Grab

Sampled: 06/15/23 11:31
Received: 06/15/23 15:22
PO #: 1940007191

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

Methane	<10	mg/L		06/15/23 11:31	1	10	06/23/23 20:58		Subcontracted - RSK-175
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Sample: GF02943-03
Name: EB-2
Matrix: Ground Water - Equipment Blank

Sampled: 06/15/23 14:00
Received: 06/15/23 15:22
PO #: 1940007191

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

Methane	<10	mg/L		06/15/23 14:00	1	10	06/23/23 21:19		Subcontracted - RSK-175
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ANALYTICAL RESULTS

Sample: GF02943-04
Name: APW-01
Matrix: Ground Water - Grab

Sampled: 06/14/23 15:44
Received: 06/15/23 15:22
PO #: 1940007191

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

Methane	<10	mg/L		06/14/23 15:44	1	10	06/23/23 22:02		Subcontracted - RSK-175
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Sample: GF02943-05
Name: AW-20
Matrix: Ground Water - Grab

Sampled: 06/15/23 10:05
Received: 06/15/23 15:22
PO #: 1940007191

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

Methane	28.7	mg/L		06/15/23 10:05	1	10	06/23/23 22:23		Subcontracted - RSK-175
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Sample: GF02943-06
Name: AW-23
Matrix: Ground Water - Grab

Sampled: 06/14/23 13:23
Received: 06/15/23 15:22
PO #: 1940007191

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

Methane	<10	mg/L		06/14/23 13:23	1	10	06/23/23 22:44		Subcontracted - RSK-175
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Sample: GF02943-07
Name: EMW-05
Matrix: Ground Water - Grab

Sampled: 06/15/23 07:41
Received: 06/15/23 15:22
PO #: 1940007191

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

Methane	<10	mg/L		06/15/23 07:41	1	10	06/23/23 23:05		Subcontracted - RSK-175
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ANALYTICAL RESULTS

Sample: GF02943-08
Name: DUP-1
Matrix: Ground Water - Field Duplicate

Sampled: 06/15/23 10:10
Received: 06/15/23 15:22
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Dissolved Gases by GC/FID - Pace Analytical - Indianapolis									
Methane	24.1	mg/L		06/15/23 10:10	1	10	06/23/23 23:26		Subcontracted - RSK-175

ANALYTICAL RESULTS

Sample: GF02088-01
Name: AW-09
Matrix: Ground Water - Grab

Sampled: 06/12/23 14:05
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.230 J	pCi/L			1	0.49	07/21/23 16:40		904.0 903.0

Sample: GF02088-02
Name: AW-15
Matrix: Ground Water - Grab

Sampled: 06/12/23 14:35
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	3.8	pCi/L			1	0.508	07/21/23 16:40		904.0 903.0

Sample: GF02088-03
Name: AW-15S
Matrix: Ground Water - Grab

Sampled: 06/12/23 13:29
Received: 06/13/23 16:51
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.203 U	pCi/L			1	0.713	07/21/23 16:40		904.0 903.0

ANALYTICAL RESULTS

Sample: GF02088-04
Name: AW-16
Matrix: Ground Water - Grab

Sampled: 06/12/23 15:52
Received: 06/13/23 16:51
PO #: 1940007191

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	3.74	pCi/L			1	0.538	07/21/23 16:40		904.0 903.0
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Sample: GF02088-05
Name: XPW01A
Matrix: Ground Water - Grab

Sampled: 06/12/23 15:32
Received: 06/13/23 16:51
PO #: 1940007191

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	0.0760 U	pCi/L			1	0.638	07/21/23 16:40		904.0 903.0
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Sample: GF02088-06
Name: AW-10
Matrix: Ground Water - Grab

Sampled: 06/13/23 15:20
Received: 06/13/23 16:51
PO #: 1940007191

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	2.95	pCi/L			1	0.667	07/21/23 16:40		904.0 903.0
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Sample: GF02088-07
Name: AW-10 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 06/13/23 15:20
Received: 06/13/23 16:51
PO #: 1940007191

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	2.79	pCi/L			1	0.672	07/21/23 16:40		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF02088-08
Name: AW-11
Matrix: Ground Water - Grab

Sampled: 06/13/23 12:54
Received: 06/13/23 16:51
PO #: 1940007191

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	2.29	pCi/L			1	0.744	07/21/23 16:40		904.0 903.0
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Sample: GF02088-09
Name: AW-14
Matrix: Ground Water - Grab

Sampled: 06/13/23 11:20
Received: 06/13/23 16:51
PO #: 1940007191

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

Rad 226 and 228-Subcontract	3.46	pCi/L			1	0.667	07/21/23 16:40		904.0 903.0
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Sample: GF02088-10
Name: AW-17
Matrix: Ground Water - Grab

Sampled: 06/13/23 15:20
Received: 06/13/23 16:51
PO #: 1940007191

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	2.97	pCi/L			1	0.671	07/21/23 16:40		904.0 903.0
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Sample: GF02088-11
Name: XPW02
Matrix: Ground Water - Grab

Sampled: 06/13/23 12:06
Received: 06/13/23 16:51
PO #: 1940007191

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	0.481 J	pCi/L			1	0.725	07/21/23 20:53		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF02088-12
Name: XPW03
Matrix: Ground Water - Grab

Sampled: 06/13/23 13:38
Received: 06/13/23 16:51
PO #: 1940007191

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	0.897	pCi/L			1	0.675	07/21/23 20:53		904.0 903.0
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Sample: GF02677-01
Name: AP05S
Matrix: Ground Water - Grab

Sampled: 06/14/23 10:34
Received: 06/14/23 16:54
PO #: 1940007191

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	4.53	pCi/L			1	1.07	07/20/23 16:47		904.0 903.0
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Sample: GF02677-02
Name: AW-01
Matrix: Ground Water - Grab

Sampled: 06/14/23 12:35
Received: 06/14/23 16:54
PO #: 1940007191

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	0.773	pCi/L			1	0.725	07/20/23 16:47		904.0 903.0
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Sample: GF02677-03
Name: AW-06
Matrix: Ground Water - Grab

Sampled: 06/14/23 10:33
Received: 06/14/23 16:54
PO #: 1940007191

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	0.91	pCi/L			1	0.54	07/20/23 16:47		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF02677-04
Name: AW-08
Matrix: Ground Water - Grab

Sampled: 06/14/23 14:24
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.815	pCi/L			1	0.704	07/20/23 16:47		904.0 903.0

Sample: GF02677-05
Name: AW-18
Matrix: Ground Water - Grab

Sampled: 06/14/23 12:08
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.92	pCi/L			1	0.568	07/20/23 16:47		904.0 903.0

Sample: GF02677-06
Name: AW-19
Matrix: Ground Water - Grab

Sampled: 06/14/23 13:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.471 J	pCi/L			1	0.52	07/21/23 16:40		904.0 903.0

Sample: GF02677-07
Name: AW-19 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 06/14/23 13:40
Received: 06/14/23 16:54
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.04	pCi/L			1	0.494	07/21/23 16:40		904.0 903.0

ANALYTICAL RESULTS

Sample: GF02677-08
Name: AW-21
Matrix: Ground Water - Grab

Sampled: 06/14/23 15:40
Received: 06/14/23 16:54
PO #: 1940007191

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	0.326 J	pCi/L			1	0.573	07/21/23 16:40		904.0 903.0
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Sample: GF02677-09
Name: EB-01
Matrix: Ground Water - Equipment Blank

Sampled: 06/14/23 16:03
Received: 06/14/23 16:54
PO #: 1940007191

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	0.0292 U	pCi/L			1	0.494	07/21/23 16:40		904.0 903.0
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Sample: GF02943-01
Name: AP07S
Matrix: Ground Water - Grab

Sampled: 06/15/23 11:03
Received: 06/15/23 15:22
PO #: 1940007191

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

Rad 226 and 228-Subcontract	1.2	pCi/L			1	1.19	07/20/23 16:47		904.0 903.0
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Sample: GF02943-02
Name: AW-05
Matrix: Ground Water - Grab

Sampled: 06/15/23 11:31
Received: 06/15/23 15:22
PO #: 1940007191

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	3.09	pCi/L			1	1.22	07/20/23 16:47		904.0 903.0
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ANALYTICAL RESULTS

Sample: GF02943-03
Name: EB-2
Matrix: Ground Water - Equipment Blank

Sampled: 06/15/23 14:00
Received: 06/15/23 15:22
PO #: 1940007191

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	0.323	U pCi/L			1	0.879	07/20/23 16:47		904.0 903.0
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QC SAMPLE RESULTS

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: Gail Schindler, Project Manager



July 28, 2023

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

RE: Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 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 06/28/23. Revised to add headspace qualifier. 062923hmp

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

Sincerely,



Randal Rastorfer for
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: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50347864001	AW-09	Water	06/12/23 14:05	06/22/23 09:15
50347864002	AW-15	Water	06/12/23 14:35	06/22/23 09:15
50347864003	AW-15S	Water	06/12/23 13:29	06/22/23 09:15
50347864004	AW-16	Water	06/12/23 15:52	06/22/23 09:15
50347864005	XPW01A	Water	06/12/23 15:32	06/22/23 09:15
50347864006	AW-10	Water	06/13/23 15:20	06/22/23 09:15
50347864007	AW-10 DUP	Water	06/13/23 15:20	06/22/23 09:15
50347864008	AW-11	Water	06/13/23 12:54	06/22/23 09:15
50347864009	AW-14	Water	06/13/23 11:20	06/22/23 09:15
50347864010	AW-17	Water	06/13/23 15:20	06/22/23 09:15
50347864011	XPW02	Water	06/13/23 12:06	06/22/23 09:15
50347864012	XPW03	Water	06/13/23 13:38	06/22/23 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50347864001	AW-09	RSK 175 Modified	JRW	3	PASI-I
50347864002	AW-15	RSK 175 Modified	JRW	3	PASI-I
50347864003	AW-15S	RSK 175 Modified	JRW	3	PASI-I
50347864004	AW-16	RSK 175 Modified	JRW	3	PASI-I
50347864005	XPW01A	RSK 175 Modified	JRW	3	PASI-I
50347864006	AW-10	RSK 175 Modified	JRW	3	PASI-I
50347864007	AW-10 DUP	RSK 175 Modified	JRW	3	PASI-I
50347864008	AW-11	RSK 175 Modified	JRW	3	PASI-I
50347864009	AW-14	RSK 175 Modified	JRW	3	PASI-I
50347864010	AW-17	RSK 175 Modified	JRW	3	PASI-I
50347864011	XPW02	RSK 175 Modified	JRW	3	PASI-I
50347864012	XPW03	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: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50347864001	AW-09					
RSK 175 Modified	Methane	23700	ug/L	20.0	06/23/23 13:48	
50347864002	AW-15					
RSK 175 Modified	Methane	48500	ug/L	50.0	06/23/23 08:19	
50347864004	AW-16					
RSK 175 Modified	Methane	60400	ug/L	50.0	06/23/23 08:40	HS
50347864005	XPW01A					
RSK 175 Modified	Methane	951	ug/L	10.0	06/23/23 13:26	
50347864006	AW-10					
RSK 175 Modified	Methane	65500	ug/L	50.0	06/23/23 09:02	
50347864007	AW-10 DUP					
RSK 175 Modified	Methane	61600	ug/L	50.0	06/23/23 09:24	
50347864008	AW-11					
RSK 175 Modified	Methane	47300	ug/L	50.0	06/23/23 09:46	
50347864009	AW-14					
RSK 175 Modified	Methane	42600	ug/L	50.0	06/23/23 10:08	
50347864010	AW-17					
RSK 175 Modified	Methane	59600	ug/L	50.0	06/23/23 14:10	
50347864011	XPW02					
RSK 175 Modified	Methane	145	ug/L	10.0	06/23/23 14:31	
50347864012	XPW03					
RSK 175 Modified	Methane	920	ug/L	10.0	06/23/23 13:02	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-09	Lab ID: 50347864001	Collected: 06/12/23 14:05	Received: 06/22/23 09:15	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							
Ethane	ND	ug/L	20.0	2		06/23/23 13:48	74-84-0	
Ethene	ND	ug/L	20.0	2		06/23/23 13:48	74-85-1	
Methane	23700	ug/L	20.0	2		06/23/23 13:48	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-15		Lab ID: 50347864002	Collected: 06/12/23 14:35	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/23/23 08:19	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 08:19	74-85-1	
Methane	48500	ug/L	50.0	5		06/23/23 08:19	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Mistra-Edwards
 Pace Project No.: 50347864

Sample: AW-15S		Lab ID: 50347864003	Collected: 06/12/23 13:29	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/22/23 16:24	74-84-0	
Ethene	ND	ug/L	10.0	1		06/22/23 16:24	74-85-1	
Methane	ND	ug/L	10.0	1		06/22/23 16:24	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-16		Lab ID: 50347864004	Collected: 06/12/23 15:52	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/23/23 08:40	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 08:40	74-85-1	
Methane	60400	ug/L	50.0	5		06/23/23 08:40	74-82-8	HS

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ANALYTICAL RESULTS

Project: GF02088/Mistra-Edwards
 Pace Project No.: 50347864

Sample: XPW01A		Lab ID: 50347864005	Collected: 06/12/23 15:32	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 13:26	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 13:26	74-85-1	
Methane	951	ug/L	10.0	1		06/23/23 13:26	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Mistra-Edwards
 Pace Project No.: 50347864

Sample: AW-10		Lab ID: 50347864006	Collected: 06/13/23 15:20	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/23/23 09:02	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 09:02	74-85-1	
Methane	65500	ug/L	50.0	5		06/23/23 09:02	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-10 DUP		Lab ID: 50347864007	Collected: 06/13/23 15:20	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/23/23 09:24	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 09:24	74-85-1	
Methane	61600	ug/L	50.0	5		06/23/23 09:24	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-11		Lab ID: 50347864008	Collected: 06/13/23 12:54	Received: 06/22/23 09:15	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							
Ethane	ND	ug/L	50.0	5		06/23/23 09:46	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 09:46	74-85-1	
Methane	47300	ug/L	50.0	5		06/23/23 09:46	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-14		Lab ID: 50347864009	Collected: 06/13/23 11:20	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/23/23 10:08	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 10:08	74-85-1	
Methane	42600	ug/L	50.0	5		06/23/23 10:08	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: AW-17		Lab ID: 50347864010	Collected: 06/13/23 15:20	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/23/23 14:10	74-84-0	
Ethene	ND	ug/L	50.0	5		06/23/23 14:10	74-85-1	
Methane	59600	ug/L	50.0	5		06/23/23 14:10	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: XPW02		Lab ID: 50347864011	Collected: 06/13/23 12:06	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 14:31	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 14:31	74-85-1	
Methane	145	ug/L	10.0	1		06/23/23 14:31	74-82-8	

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Sample: XPW03		Lab ID: 50347864012	Collected: 06/13/23 13:38	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 13:02	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 13:02	74-85-1	
Methane	920	ug/L	10.0	1		06/23/23 13:02	74-82-8	

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QUALITY CONTROL DATA

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

QC Batch: 740541 Analysis Method: RSK 175 Modified
 QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE
 Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50347864003

METHOD BLANK: 3396982 Matrix: Water
 Associated Lab Samples: 50347864003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/22/23 09:40	
Ethene	ug/L	ND	10.0	06/22/23 09:40	
Methane	ug/L	ND	10.0	06/22/23 09:40	

LABORATORY CONTROL SAMPLE: 3396983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	1980	1880	95	68-135	
Ethene	ug/L	2250	2350	104	79-128	
Methane	ug/L	1980	1660	84	64-132	

SAMPLE DUPLICATE: 3397286

Parameter	Units	50347822004 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	3.9J		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	ND	ND		20	

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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QUALITY CONTROL DATA

Project: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

QC Batch: 740781 Analysis Method: RSK 175 Modified
 QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE
 Laboratory: Pace Analytical Services - Indianapolis
 Associated Lab Samples: 50347864001, 50347864002, 50347864004, 50347864005, 50347864006, 50347864007, 50347864008,
 50347864009, 50347864010, 50347864011, 50347864012

METHOD BLANK: 3398055 Matrix: Water
 Associated Lab Samples: 50347864001, 50347864002, 50347864004, 50347864005, 50347864006, 50347864007, 50347864008,
 50347864009, 50347864010, 50347864011, 50347864012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/23/23 07:55	
Ethene	ug/L	ND	10.0	06/23/23 07:55	
Methane	ug/L	ND	10.0	06/23/23 07:55	

LABORATORY CONTROL SAMPLE: 3398056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	1980	1960	99	68-135	
Ethene	ug/L	2250	2440	108	79-128	
Methane	ug/L	1980	1770	89	64-132	

SAMPLE DUPLICATE: 3398461

Parameter	Units	50347864012 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	6.5J		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	920	856	7	20	

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QUALIFIERS

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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: GF02088/Vistra-Edwards
 Pace Project No.: 50347864

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50347864001	AW-09	RSK 175 Modified	740781		
50347864002	AW-15	RSK 175 Modified	740781		
50347864003	AW-15S	RSK 175 Modified	740541		
50347864004	AW-16	RSK 175 Modified	740781		
50347864005	XPW01A	RSK 175 Modified	740781		
50347864006	AW-10	RSK 175 Modified	740781		
50347864007	AW-10 DUP	RSK 175 Modified	740781		
50347864008	AW-11	RSK 175 Modified	740781		
50347864009	AW-14	RSK 175 Modified	740781		
50347864010	AW-17	RSK 175 Modified	740781		
50347864011	XPW02	RSK 175 Modified	740781		
50347864012	XPW03	RSK 175 Modified	740781		

REPORT OF LABORATORY ANALYSIS

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WO#: 50347864



50347864

State of Origin: IL YES NO
Cert. Needed: YES NO

Owner Received Date: 6/13/2023
Results Required By: 7/11/2023

Order Name: Vistra - Edwards
Subcontract To:

Report To:
Gail Schindler
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	Date/Time	Received By	Date/Time	Comments
1	AW-09	GRAB	6/12/2023 14:05	GF02088-01	GW					
2	AW-15	GRAB	6/12/2023 14:07	GF02088-02	GW					
3	AW-15S	GRAB	6/12/2023 13:29	GF02088-03	GW					
4	AW-16	GRAB	6/12/2023 15:52	GF02088-04	GW					
5	XPW01A	GRAB	6/12/2023 15:32	GF02088-05	GW					
6	AW-10	GRAB	6/13/2023 15:20	GF02088-06	GW					
7	AW-10 DUP	GRAB	6/13/2023 15:20	GF02088-07	GW					
8	AW-11	GRAB	6/13/2023 12:54	GF02088-08	GW					
9	AW-14	GRAB	6/13/2023 11:20	GF02088-09	GW					
10	AW-17	GRAB	6/13/2023 15:20	GF02088-10	GW					
11	XPW02	GRAB	6/13/2023 12:06	GF02088-11	GW					
12	XPW03	GRAB	6/13/2023 13:38	GF02088-12	GW					

Transfers Released By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	6/13/23 13:30	<i>[Signature]</i>	6/13/23 09:15
			6/13/23 09:15

Cooler Temperature on Receipt: 6.3 °C Custody Seal: For N Received on: For N Sample Intact: For 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

Pace

Date/Time and Initials of person examining contents: *MR C/22/23 1340*

1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 *A B C D E F G*
4. Cooler Temperature(s): *02/03*
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)		/			
Short Hold Time Analysis (48 hours or less)? Analysis:		/			/
Time 5035A TC placed in Freezer or Short Holds To Lab Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		/			
Custody Signatures Present?	/		Present	Absent	No VOA Vials Sent
Containers Intact?:	/				/
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/				
Extra labels on Terracore Vials? (soils only)				/	

COMMENTS:

Sample Container Count

COC PAGE ___ of ___

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	MeOH (only)		VIALS			AMBER GLASS						PLASTIC						OTHER			Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc													
		SBS	DI	VOA VIAL HS (>6mm)	DG9H	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F					BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	Matrix						
1																																						
2																																						
3																																						
4																																						
5																																						
6																																						
7																																						
8																																						
9																																						
10																																						
11																																						
12																																						

EDWARDS CASH POND

ED-845-307

Black NaOH Ac>9

Red Yellow Green

HNO3 H2SO4 <2 <2 NaOH >10

Nitric Sulfuric Sodium Hydroxide

Red Yellow Green Black

Sodium Hydroxide/ZnAc

ED-845-307

EDWARDS CASH POND

Container Codes

Glass		Plastic	
DG9H	40mL HCl amber vial	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	Miscellaneous	
DG9U	40mL unpreserved amber vial	Syringe Kit	LL Cr+6 sampling kit
VG9H	40mL HCl clear vial	ZPLC	Ziploc Bag
VG9T	40mL Na Thio. clear vial	R	Terracore Kit
VG9U	40mL unpreserved clear vial	SP5T	120mL Colliform Sodium Thiosulfate
I	40mL w/hexane wipe vial	GN	General Container
WGKU	6oz unpreserved clear jar	U	Summa Can (air sample)
WGFU	4oz clear soil jar	WT	Water
JGFU	4oz unpreserved amber wide	SL	Solid Solid
CG3H	250mL clear glass HCl	OL	Oil
CG3F	250mL clear glass HCl, Field Filter	NAL	Non-aqueous liquid
BGH	1L HCl clear glass	WP	Wipe
BG1S	1L H2SO4 clear glass		
BG1T	1L Na Thiosulfate clear glass		
BG1U	1L unpreserved glass		
BG3H	250mL HCl Clear Glass		
BG3U	250mL Unpres Clear Glass		
AG0U	100mL unpres amber glass		
AG1H	1L HCl amber glass		
AG1S	1L H2SO4 amber glass		
AG1T	1L Na Thiosulfate amber glass		
AG1U	1L unpres amber glass		
AG2N	500mL HNO3 amber glass		
AG2S	500mL H2SO4 amber glass		
AG2U	500mL unpres amber glass		
AG3S	250mL clear glass HCl		
AG3SF	250mL H2SO4 amb glass -field filtered		
AG3U	250mL unpres amber glass		
AG3C	250mL NaOH amber glass		
BP1B	1L NaOH plastic		
BP1N	1L HNO3 plastic		
BP1S	1L H2SO4 plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		



ANALYTICAL REPORT

July 27, 2023

Revised Report

Pace IR - Peoria, IL

Sample Delivery Group: L1628609
Samples Received: 06/22/2023
Project Number: GF02088
Description: Vistra-Edwards
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

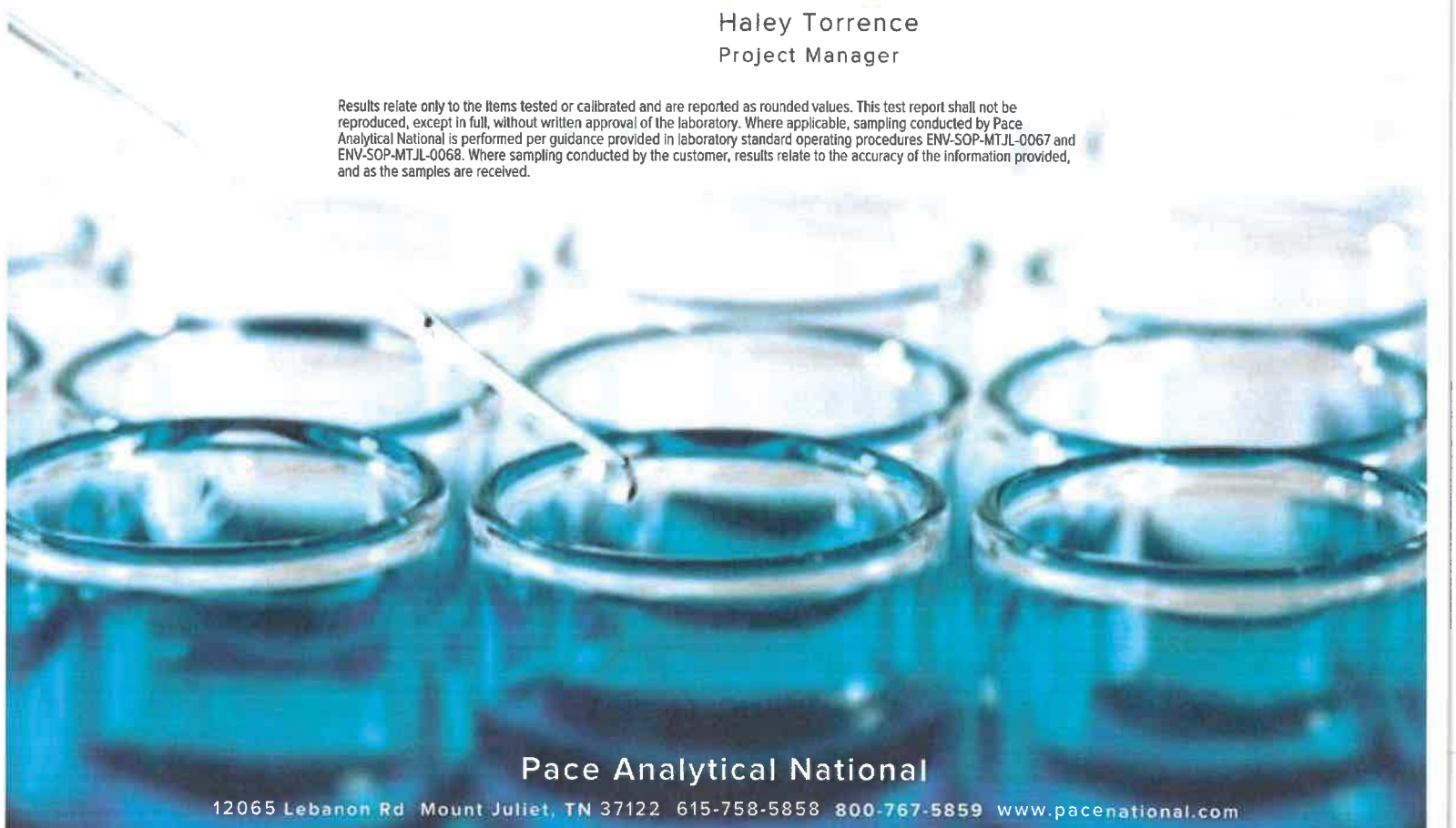
⁸Al

⁹Sc

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.

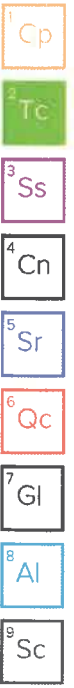


Pace Analytical National

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

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SAMPLE SUMMARY

AW-09 L1628609-01 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/12/23 14:05
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:26	RGT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

AW-15 L1628609-02 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/12/23 14:35
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

AW-15S L1628609-03 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/12/23 13:29
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

AW-16 L1628609-04 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/12/23 12:52
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

XPW01A L1628609-05 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/12/23 15:32
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

AW-10 DUP L1628609-06 Non-Potable Water

Collected by
 Collected date/time
 Received date/time

06/13/23 15:20
 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

AW-10 L1628609-08 Non-Potable Water
 Collected by: [blank] Collected date/time: 06/13/23 15:20 Received date/time: 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

AW-11 L1628609-09 Non-Potable Water
 Collected by: [blank] Collected date/time: 06/13/23 12:54 Received date/time: 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

AW-14 L1628609-10 Non-Potable Water
 Collected by: [blank] Collected date/time: 06/13/23 11:20 Received date/time: 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

AW-17 L1628609-11 Non-Potable Water
 Collected by: [blank] Collected date/time: 06/13/23 15:20 Received date/time: 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RRE	Mt. Juliet, TN

XPW02 L1628609-12 Non-Potable Water
 Collected by: [blank] Collected date/time: 06/13/23 12:06 Received date/time: 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2094102	1	07/13/23 09:59	07/21/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

XPW03 L1628609-13 Non-Potable Water
 Collected by: [blank] Collected date/time: 06/13/23 13:38 Received date/time: 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2094102	1	07/13/23 09:59	07/21/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:37	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

Report Revision History

Level II Report - Version 1: 07/25/23 15:07

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	-0.0128	<u>U</u>	0.235	0.430	07/21/2023 16:40	WG2093699
(T) Barium	90.2			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	122			30.0-136	07/21/2023 16:40	WG2093699

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	0.230	<u>J</u>	0.309	0.490	07/21/2023 16:40	WG2094942

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	0.230	<u>J</u>	0.201	0.235	07/17/2023 21:26	WG2094942
(T) Barium-133	94.4			30.0-143	07/17/2023 21:26	WG2094942

6 Qc

7 GI

8 Al

9 Sc

AW-15

EDWARDS, ASH POND

SAMPLE RESULTS - 02

Collected date/time: 07/21/23 14:35

EDW-845-301

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.18		0.269	0.420	07/21/2023 16:40	WG2093699
(T) Barium	102			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	97.4			30.0-136	07/21/2023 16:40	WG2093699

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	3.80		0.563	0.508	07/21/2023 16:40	WG2094942

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	1.61		0.495	0.286	07/17/2023 21:25	WG2094942
(T) Barium-133	95.6			30.0-143	07/17/2023 21:25	WG2094942

6 Qc

7 GI

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	-0.149	<u>U</u>	0.380	0.687	07/21/2023 16:40	WG2093699
(T) Barium	77.0			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	117			30.0-136	07/21/2023 16:40	WG2093699

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	0.203	<u>U</u>	0.420	0.713	07/21/2023 16:40	WG2094942

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	0.203		0.180	0.192	07/17/2023 21:25	WG2094942
(T) Barium-133	85.6			30.0-143	07/17/2023 21:25	WG2094942

6 Qc

7 GI

8 Al

9 Sc

AW-16 EDWARDS, ASH POND
 Collected date: 07/21/2023 12:52

SAMPLE RESULTS - 04
 L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.02		0.295	0.473	07/21/2023 16:40	WG2093699
(T) Barium	93.3			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	106			30.0-136	07/21/2023 16:40	WG2093699

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.74		0.586	0.538	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.72		0.506	0.256	07/17/2023 21:25	WG2094942
(T) Barium-133	95.6			30.0-143	07/17/2023 21:25	WG2094942

- 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	-0.375	<u>U</u>	0.338	0.619	07/21/2023 16:40	WG2093699
(T) Barium	79.4			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	106			30.0-136	07/21/2023 16:40	WG2093699

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	0.0760	<u>U</u>	0.354	0.638	07/21/2023 16:40	WG2094942

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	0.0760	<u>J</u>	0.106	0.154	07/17/2023 21:25	WG2094942
(T) Barium-133	98.3			30.0-143	07/17/2023 21:25	WG2094942

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	1.59		0.311	0.515	07/21/2023 16:40	WG2093699
(T) Barium	87.2			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	101			30.0-136	07/21/2023 16:40	WG2093699

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	2.79		0.608	0.672	07/21/2023 16:40	WG2094946

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	1.19		0.522	0.431	07/18/2023 19:19	WG2094946
(T) Barium-133	78.5			30.0-143	07/18/2023 19:19	WG2094946

6 Qc

7 Gl

8 Al

9 Sc

AW-10

EDWARDS, ASH POND

SAMPLE RESULTS - 08

Collected date: 07/21/2023 15:20

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.36		0.343	0.581	07/21/2023 16:40	WG2093699
(T) Barium	84.5			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	98.1			30.0-136	07/21/2023 16:40	WG2093699

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	2.95		0.615	0.667	07/21/2023 16:40	WG2094946

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	1.59		0.510	0.328	07/18/2023 19:19	WG2094946
(T) Barium-133	99.2			30.0-143	07/18/2023 19:19	WG2094946

6 Qc

7 GI

8 Al

9 Sc

AW-11

EDWARDS, ASH POND

SAMPLE RESULTS - 09

Collected date: 07/21/23 12:54

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.430	J	0.394	0.696	07/21/2023 16:40	WG2093699
(T) Barium	77.3			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	100			30.0-136	07/21/2023 16:40	WG2093699

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	2.29		0.672	0.744	07/21/2023 16:40	WG2094946

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	1.86		0.544	0.262	07/18/2023 19:19	WG2094946
(T) Barium-133	96.0			30.0-143	07/18/2023 19:19	WG2094946

6 Qc

7 Gl

8 Al

9 Sc

AW-14

EDWARDS, ASH POND

SAMPLE RESULTS - 10

Collected date: 07/21/23 11:20

EDW-845-801

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.55		0.356	0.576	07/21/2023 16:40	WG2093699
(T) Barium	91.7			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	104			30.0-136	07/21/2023 16:40	WG2093699

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	3.46		0.544	0.667	07/21/2023 16:40	WG2094946

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	0.918		0.411	0.336	07/18/2023 19:19	WG2094946
(T) Barium-133	96.1			30.0-143	07/18/2023 19:19	WG2094946

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	1.59		0.342	0.573	07/21/2023 16:40	WG2093699
(T) Barium	87.6			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	103			30.0-136	07/21/2023 16:40	WG2093699

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	2.97		0.617	0.671	07/21/2023 16:40	WG2094946

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	1.39		0.514	0.349	07/18/2023 19:19	WG2094946
(T) Barium-133	83.7			30.0-143	07/18/2023 19:19	WG2094946

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	0.172	U	0.284	0.524	07/21/2023 20:53	WG2094102
(T) Barium	102			30.0-143	07/21/2023 20:53	WG2094102
(T) Yttrium	111			30.0-136	07/21/2023 20:53	WG2094102

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	0.481	J	0.462	0.725	07/21/2023 20:53	WG2094946

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	0.309	J	0.364	0.501	07/18/2023 19:19	WG2094946
(T) Barium-133	62.1			30.0-143	07/18/2023 19:19	WG2094946

6 Qc

7 GI

8 AI

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.760		0.312	0.553	07/21/2023 20:53	WG2094102
(T) Borium	92.1			30.0-143	07/21/2023 20:53	WG2094102
(T) Yttrium	99.0			30.0-136	07/21/2023 20:53	WG2094102

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	0.897		0.399	0.675	07/21/2023 20:53	WG2094946

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	0.137	<u>U</u>	0.249	0.387	07/18/2023 19:37	WG2094946
(T) Barium-133	81.3			30.0-143	07/18/2023 19:37	WG2094946

6 Qc

7 Gl

8 Al

9 Sc

WG2093699

Radiochemistry by Method 904/9320

Method Blank (MB)

(MB) R3952414-1 07/21/23 16:40	
Analyte	MB Result pCi/l
Radium-228	0.282
(f) Barium	97.5
(f) Yttrium	95.0

MB Uncertainty	
+ / -	MB MDA pCi/l
0.186	0.328
97.5	
95.0	

L1628609-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1628609-05 07/21/23 16:40 • (DUP) R3952414-5 07/21/23 16:40

Analyte	Original Result		Original Uncertainty		Original MDA		DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit	
	pCi/l	+ / -	pCi/l	+ / -	pCi/l	pCi/l										
Radium-228	-0.375	0.338	0.619	0.502	0.619	0.392	85.7	0.619	85.7	1	200	1.70	J	20	3	
(f) Barium	79.4			85.7		85.7		85.7								
(f) Yttrium	106			111		111		111								

Laboratory Control Sample (LCS)

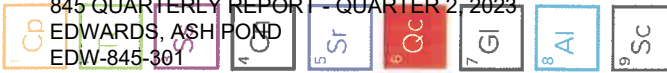
(LCS) R3952414-2 07/21/23 16:40

Analyte	Spike Amount		LCS Result		Rec. Limits	
	pCi/l	%	pCi/l	%	pCi/l	%
Radium-228	5.00	113	5.63	88.4	80.0-120	
(f) Barium				88.4		
(f) Yttrium				110		

L1628608-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628608-09 07/21/23 16:40 • (MS) R3952414-3 07/21/23 16:40 • (MSD) R3952414-4 07/21/23 16:40

Analyte	Spike Amount		Original Result		MS Result		MSD Result		Dilution	Rec. Limits %	MS Qualifier	MS RER	RPD Limits %
	pCi/l	%	pCi/l	%	pCi/l	%	pCi/l	%					
Radium-228	10.0	-0.185	9.88	10.1	98.8	101	98.8	101	1	70.0-130			20
(f) Barium		92.6		95.1		100		100					
(f) Yttrium		111		106		111		111					



WG2094102

Radiochemistry by Method 904/9320

Method Blank (MB)

(MB) R3952036-1 07/21/23 20:53

Analyte	MB Result pCi/l	MB Qualifier +/-	MB Uncertainty pCi/l	MB MDA pCi/l
Radium-228	0.480	0.197	0.349	
(f) Barium	98.6			
(f) Yttrium	87.8			

L1628609-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1628609-13 07/21/23 20:53 • (DUP) R3952036-5 07/21/23 20:53

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 RPD Limits %	DUP RER Limit
Radium-228	0.760	0.312	0.553	0.433	0.380	0.553	1	54.7	0.664	20	3
(f) Barium	92.1			86.0	86.0						
(f) Yttrium	99.0			104	104						

Laboratory Control Sample (LCS)

(LCS) R3952036-2 07/21/23 20:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.48	110	80.0-120	
(f) Barium		94.8			
(f) Yttrium		94.9			

L1628609-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628609-12 07/21/23 20:53 • (MS) R3952036-3 07/21/23 20:53 • (MSD) R3952036-4 07/21/23 20:53

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.172	17.1	16.3	101	96.5	1	70.0-130		4.80	4.80		20
(f) Barium		102		97.2	97.2	96.8							
(f) Yttrium		111		112	112	118							

Cp

4

5

Sr

6

Co

7

GI

8

AI

9

Sc

WG2094942

Radiochemistry by Method SM7500Ra B M

Method Blank (MB)

(MB) R3950486-1 07/17/23 21:25

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-226	-0.0120	<u>U</u>	0.0199	0.0625
(7) Barium-133	93.8		93.8	

L1628608-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1628608-04 07/17/23 21:25 • (DUP) R3950486-5 07/17/23 21:25

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	-0.0607	0.207	0.394	0.121	0.176	0.394	1	200	0.667	<u>J</u>	20	3
(7) Barium-133	89.1			94.2	94.2							

Laboratory Control Sample (LCS)

(LCS) R3950486-2 07/17/23 21:25

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.64	92.5	80.0-120	
(7) Barium-133		94.4			

L1628609-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628609-03 07/17/23 21:25 • (MS) R3950486-3 07/17/23 21:25 • (MSD) R3950486-4 07/17/23 21:25

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	0.203	18.8	17.7	92.8	87.2	1	75.0-125			6.15		20
(7) Barium-133		85.6		87.6	83.0	87.6							

4	5	6	7	8	9
Co	Sr	Ce	Gl	Al	Sc

WG2094946

Radiochemistry by Method SM7500Ra B M

Method Blank (MB)

(MB) R3950913-1 07/18/23 19:19

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-226	0.00239	U	0.0456	0.0934
(T) Barium-133	80.0		80.0	

L1628922-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1628922-12 07/18/23 19:37 • (DUP) R3950913-5 07/18/23 19:19

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 RPD Limits %	DUP RER Limit
Radium-226	6.99	1.01	0.217	8.15	1.11	0.217	1	15.3	0.774	20	3
(T) Barium-133	105	112		112	112						

Laboratory Control Sample (LCS)

(LCS) R3950913-2 07/18/23 19:19

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.25	105	80.0-120	
(T) Barium-133		92.3			

L1628609-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628609-12 07/18/23 19:19 • (MS) R3950913-3 07/18/23 19:19 • (MSD) R3950913-4 07/18/23 19:19

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.309	18.3	15.4	90.1	75.2	1	75.0-125		17.6		20
(T) Barium-133		62.1	69.0	60.6	60.6	69.0						

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

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	CB47
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

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

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

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

Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ GI

⁸ AI

⁹ Sc



Internal Transfer Chain of Custody

State of Origin: IL YES NO
Cert. Needed: YES NO

Owner Received Date: 6/13/2023 By: 7/11/2023

Workorder Name: Vistra - Edwards

Subcontract To:

Pace Analytical - Mt Juliet
12065 Lebanon Rd
Mt Juliet TN 37122

Workorder: GF02088

Report To:
Gail Schindler
Pace Analytical - IL/MO
2231 W. Altonfer Drive
Peoria, IL 61615
800-752-6651

Item	Sample ID	Sample Type	Collect Date/Time	Matrix	Preserved Containers	Date/Time	Comments
1	AW-09	GRAB	6/12/2023 14:05	GW			
2	AW-15	GRAB	6/12/2023 13:07	GW			
3	AW-15S	GRAB	6/12/2023 13:29	GW			
4	AW-16	GRAB	6/12/2023 15:52	GW			
5	XPW01A	GRAB	6/12/2023 15:32	GW			
6	AW-10	GRAB	6/13/2023 15:20	GW			
7	AW-10 DUP	GRAB	6/13/2023 15:20	GW			
8	AW-11	GRAB	6/13/2023 12:54	GW			
9	AW-14	GRAB	6/13/2023 11:20	GW			
10	AW-17	GRAB	6/13/2023 15:20	GW			
11	XPW02	GRAB	6/13/2023 12:06	GW			
12	XPW03	GRAB	6/13/2023 13:38	GW			
Transfer/Released By: <i>[Signature]</i> Date/Time: 6/21/23 14:05							
Received By: <i>[Signature]</i> Date/Time: 6/21/23 09:00							
Radium 226/228							
LAB USE ONLY							
<i>U1028009</i>							
-01							
-02							
-03							
-04							
-05							
-06							

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
 COC Signed/Accurate: Y N VOA Zero Readspace: 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

11628609



Ship to :
 Pace Analytical Services, LLC
 1638 Roseytown Rd - Suites 2,3,4
 Greensburg, PA 15601

(724)850-5600

INTER LABORATORY WORK ORDER # **GF02088**
 (To be complete by sending lab)

Sending Project No:	GF02088
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	6/20/2023
REQUESTED COMPLETION DATE:	7/11/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
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		12		12	\$242.10	\$2,905.20
		1		1	\$0.00	\$0.00
		1		1		\$0.00
TOTAL						\$2,905.20

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	\$2,905.20	\$2,324.16	\$581.04
		TOTAL	\$2,324.16	\$581.04

* 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.

LI628009

<u>Tracking Numbers</u>		<u>NS ALO Temperature</u>
6319 (0001 0051)		20.6 to 20.6

C217

Internal Transfer Chain of Custody



State of Origin: IL
Certs. Needed: YES NO

Owner Received:
Date: 6/13/2023
Requested Analysis: 7/11/2023

Workorder: GF02088
Subcontract To:
Workorder Name:
Date: 6/13/2023

Gail Schindler
Pace Analytical - IL/MO
2231 W. Ahorn 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	Matrix	Matrix	Preserved Container	Received By	Date/Time	Comments
1	AW-09	GRAB	6/12/2023 14:05	GW	GW				
2	AW-15	GRAB	6/12/2023 14:05	GW	GW				
3	AW-15S	GRAB	6/12/2023 13:29	GW	GW				
4	AW-16	GRAB	6/12/2023 15:52	GW	GW				
5	XPW01A	GRAB	6/12/2023 15:32	GW	GW				
6	AW-10	GRAB	6/13/2023 15:20	GW	GW				
7	AW-10 DUP	GRAB	6/13/2023 15:20	GW	GW				
8	AW-11	GRAB	6/13/2023 12:34	GW	GW				
9	AW-14	GRAB	6/13/2023 11:20	GW	GW				
10	AW-17	GRAB	6/13/2023 15:20	GW	GW				
11	XPW02	GRAB	6/13/2023 12:06	GW	GW				
12	XPW03	GRAB	6/13/2023 13:38	GW	GW				
<p>Transfers Released By: </p> <p>Received By:  Date/Time: 6/21/23 14:05</p>									

Cooler Temperature on Receipt: C F N
Custody Seal: Y N N
Sample Intact: Y 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 not to be used for any other purpose than that for which it was intended. It is since this information is available in the owner laboratory.

Sample Receipt Checklist:
 COC Seal Present/Intact: Y N N
 COC Signed/Accurate: Y N N
 Bottles Arrive Intact: Y N N
 Correct bottles used: Y N N
 Sufficient volume sent: Y N N
 PAD Screen < 0.5 mR/hr: Y N N

FMT-ALL-C-002rev.00 24March2009

Page 1 of 1



Ship to:
 Pace Analytical Services, LLC
 1638 Roseytown Rd - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

U1628609

INTER LABORATORY WORK ORDER # GFO2088

(To be complete by sending lab)

Sending Project No:	GFO2088
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	6/20/2023
REQUESTED COMPLETION DATE:	7/11/2023

Sending Region	IR72-IL/MO	Sending Project Mgr	Gail Schindler
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		12		12	\$242.10	\$2,905.20
		1		1	\$0.00	\$0.00
		1		1		\$0.00
TOTAL						\$2,905.20

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	\$2,905.20	\$2,324.16	\$581.04
* Custom Revenue Allocation		TOTAL	\$2,324.16	\$581.04

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.

L1628009

Tracking Numbers	N5 AL6 Temperature
6319 6001 0051	20.6 to 20.6
6319 6001 0084	24.5 to 24.5

June 29, 2023

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

RE: Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 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: GF02677/Vistra-Edwards
Pace Project No.: 50347870

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50347870001	AP05S	Water	06/14/23 10:34	06/22/23 09:15
50347870002	AW-01	Water	06/14/23 12:35	06/22/23 09:15
50347870003	AW-06	Water	06/14/23 10:33	06/22/23 09:15
50347870004	AW-08	Water	06/14/23 14:24	06/22/23 09:15
50347870005	AW-18	Water	06/14/23 12:08	06/22/23 09:15
50347870006	AW-19	Water	06/14/23 13:40	06/22/23 09:15
50347870007	AW-19 DUP	Water	06/14/23 13:40	06/22/23 09:15
50347870008	AW-21	Water	06/14/23 15:40	06/22/23 09:15
50347870009	EB-01	Water	06/14/23 16:03	06/22/23 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50347870001	AP05S	RSK 175 Modified	JRW	3	PASI-I
50347870002	AW-01	RSK 175 Modified	JRW	3	PASI-I
50347870003	AW-06	RSK 175 Modified	JRW	3	PASI-I
50347870004	AW-08	RSK 175 Modified	JRW	3	PASI-I
50347870005	AW-18	RSK 175 Modified	JRW	3	PASI-I
50347870006	AW-19	RSK 175 Modified	JRW	3	PASI-I
50347870007	AW-19 DUP	RSK 175 Modified	JRW	3	PASI-I
50347870008	AW-21	RSK 175 Modified	JRW	3	PASI-I
50347870009	EB-01	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: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50347870001	AP05S					
RSK 175 Modified	Methane	10400	ug/L	50.0	06/28/23 16:26	
50347870002	AW-01					
RSK 175 Modified	Methane	982	ug/L	10.0	06/28/23 16:47	
50347870004	AW-08					
RSK 175 Modified	Methane	3530	ug/L	10.0	06/23/23 18:08	
50347870005	AW-18					
RSK 175 Modified	Methane	46200	ug/L	50.0	06/28/23 17:08	
50347870006	AW-19					
RSK 175 Modified	Methane	17.1	ug/L	10.0	06/28/23 17:30	
50347870007	AW-19 DUP					
RSK 175 Modified	Methane	21.9	ug/L	10.0	06/23/23 19:33	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Sample: AP05S		Lab ID: 50347870001		Collected: 06/14/23 10:34	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	50.0	5		06/28/23 16:26	74-84-0	
Ethene	ND	ug/L	50.0	5		06/28/23 16:26	74-85-1	
Methane	10400	ug/L	50.0	5		06/28/23 16:26	74-82-8	

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Sample: AW-01		Lab ID: 50347870002		Collected: 06/14/23 12:35	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/28/23 16:47	74-84-0	
Ethene	ND	ug/L	10.0	1		06/28/23 16:47	74-85-1	
Methane	982	ug/L	10.0	1		06/28/23 16:47	74-82-8	

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Sample: AW-06		Lab ID: 50347870003		Collected: 06/14/23 10:33		Received: 06/22/23 09:15		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							
Ethane	ND	ug/L	10.0	1		06/23/23 17:47	74-84-0		
Ethene	ND	ug/L	10.0	1		06/23/23 17:47	74-85-1		
Methane	ND	ug/L	10.0	1		06/23/23 17:47	74-82-8		

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Sample: AW-08		Lab ID: 50347870004		Collected: 06/14/23 14:24		Received: 06/22/23 09:15		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							
Ethane	ND	ug/L	10.0	1		06/23/23 18:08	74-84-0		
Ethene	ND	ug/L	10.0	1		06/23/23 18:08	74-85-1		
Methane	3530	ug/L	10.0	1		06/23/23 18:08	74-82-8		

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards

Pace Project No.: 50347870

Sample: AW-18 **Lab ID: 50347870005** Collected: 06/14/23 12:08 Received: 06/22/23 09:15 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

Ethane	ND	ug/L	50.0	5		06/28/23 17:08	74-84-0	
Ethene	ND	ug/L	50.0	5		06/28/23 17:08	74-85-1	
Methane	46200	ug/L	50.0	5		06/28/23 17:08	74-82-8	

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards

Pace Project No.: 50347870

Sample: AW-19	Lab ID: 50347870006	Collected: 06/14/23 13:40	Received: 06/22/23 09:15	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

Ethane	ND	ug/L	10.0	1		06/28/23 17:30	74-84-0	
Ethene	ND	ug/L	10.0	1		06/28/23 17:30	74-85-1	
Methane	17.1	ug/L	10.0	1		06/28/23 17:30	74-82-8	

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Sample: AW-19 DUP		Lab ID: 50347870007	Collected: 06/14/23 13:40	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 19:33	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 19:33	74-85-1	
Methane	21.9	ug/L	10.0	1		06/23/23 19:33	74-82-8	

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Sample: AW-21		Lab ID: 50347870008		Collected: 06/14/23 15:40	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 19:54	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 19:54	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 19:54	74-82-8	

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Sample: EB-01		Lab ID: 50347870009		Collected: 06/14/23 16:03	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 20:15	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 20:15	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 20:15	74-82-8	

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QUALITY CONTROL DATA

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

QC Batch: 740903 Analysis Method: RSK 175 Modified
QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50347870003, 50347870004, 50347870007, 50347870008, 50347870009

METHOD BLANK: 3398470 Matrix: Water
Associated Lab Samples: 50347870003, 50347870004, 50347870007, 50347870008, 50347870009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/23/23 16:02	
Ethene	ug/L	ND	10.0	06/23/23 16:02	
Methane	ug/L	ND	10.0	06/23/23 16:02	

LABORATORY CONTROL SAMPLE: 3398471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	1980	1940	98	68-135	
Ethene	ug/L	2250	2440	109	79-128	
Methane	ug/L	1980	1900	96	64-132	

SAMPLE DUPLICATE: 3398723

Parameter	Units	50347822012 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	3.9J		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	ND	ND		20	

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: GF02677/Vistra-Edwards

Pace Project No.: 50347870

QC Batch: 741553 Analysis Method: RSK 175 Modified
QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50347870001, 50347870002, 50347870005, 50347870006

METHOD BLANK: 3400941 Matrix: Water

Associated Lab Samples: 50347870001, 50347870002, 50347870005, 50347870006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/28/23 15:49	
Ethene	ug/L	ND	10.0	06/28/23 15:49	
Methane	ug/L	ND	10.0	06/28/23 15:49	

LABORATORY CONTROL SAMPLE: 3400942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	1980	2140	108	68-135	
Ethene	ug/L	2250	2700	120	79-128	
Methane	ug/L	1980	2000	101	64-132	

SAMPLE DUPLICATE: 3401028

Parameter	Units	50347822014 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	4J		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	ND	ND		20	

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: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50347870001	AP05S	RSK 175 Modified	741553		
50347870002	AW-01	RSK 175 Modified	741553		
50347870003	AW-06	RSK 175 Modified	740903		
50347870004	AW-08	RSK 175 Modified	740903		
50347870005	AW-18	RSK 175 Modified	741553		
50347870006	AW-19	RSK 175 Modified	741553		
50347870007	AW-19 DUP	RSK 175 Modified	740903		
50347870008	AW-21	RSK 175 Modified	740903		
50347870009	EB-01	RSK 175 Modified	740903		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: ms c/22/23 1340

1. Courier: FED EX UPS CLIENT PACE USPS 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** A B C D E F G
4. Cooler Temperature(s): 0.2/0.3
(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. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>				<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?	<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"/>		Headspace in VOA Vials (>6mm): See Container Count form for details		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?		<input checked="" type="checkbox"/>	
			Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	

COMMENTS:

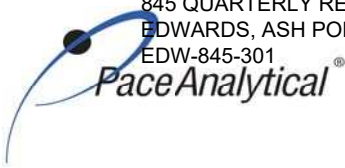
Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	MeOH (only) SBS DI R	VIALS			AMBER GLASS						PLASTIC						OTHER			Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ZnAc											
			DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N		BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	Red	Yellow	Green	Black				
1					3																												HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
2																																				
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

Container Codes

Glass				Plastic			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Miscellaneous	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac		
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	Syringe Kit	LL Cr+6 sampling kit
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	R	Terracore Kit
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Sodium Thiosulfate
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	GN	General Container
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can (air sample)
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	WT	Water
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	SL	Solid Solid
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	OL	Oil
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	NAL	Non-aqueous liquid
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	WP	Wipe



ANALYTICAL REPORT

July 25, 2023

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

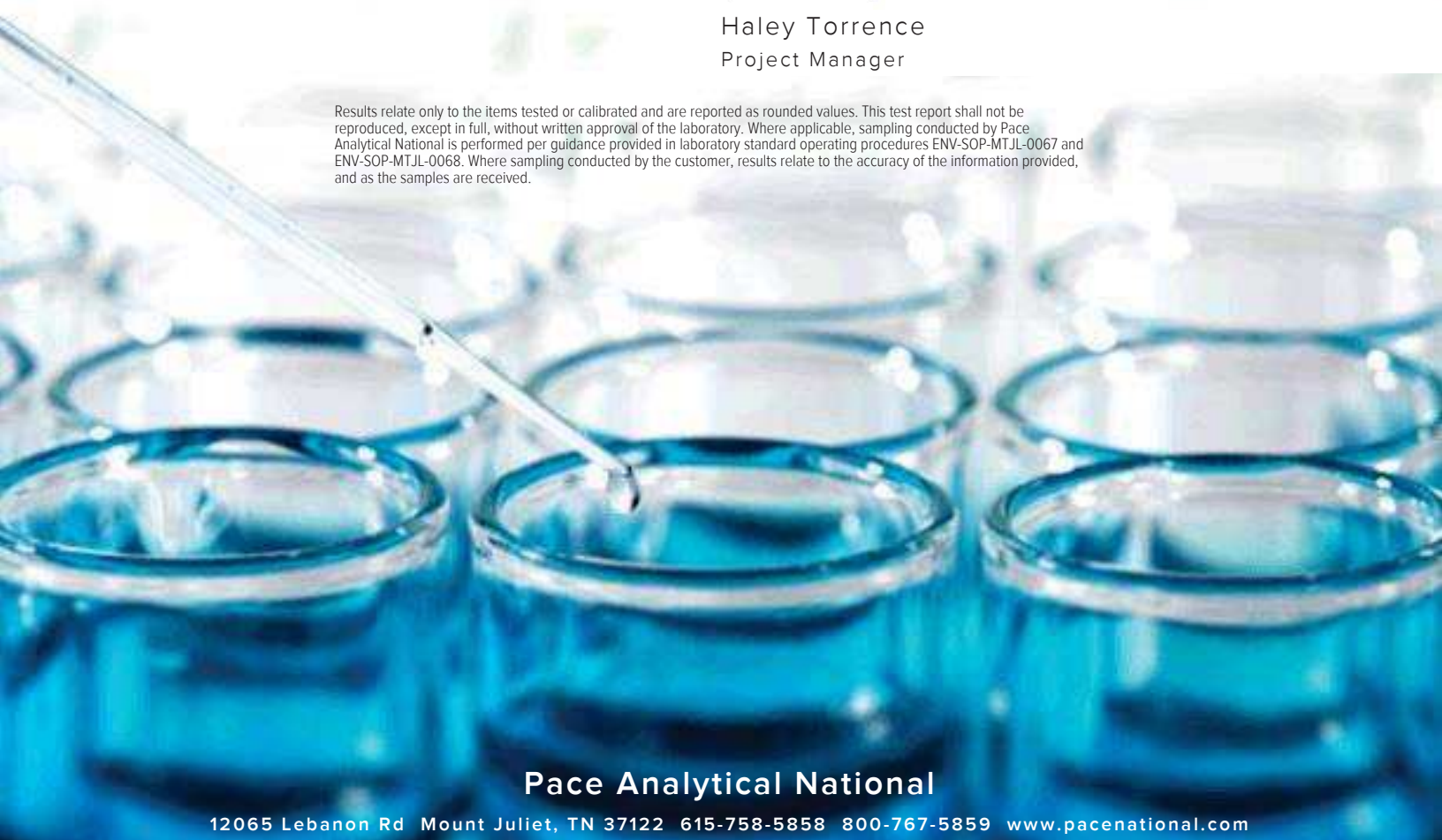
Pace IR - Peoria, IL

Sample Delivery Group: L1628608
Samples Received: 06/22/2023
Project Number: GF02677
Description: Vistra-Edwadts
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
Project Manager

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

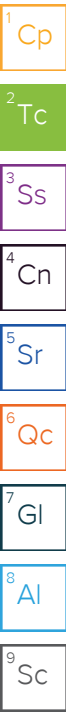


Pace Analytical National

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

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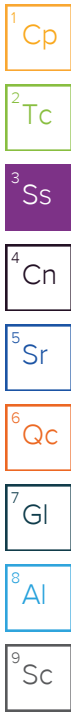


SAMPLE SUMMARY

AP05S L1628608-01 Non-Potable Water

Collected by
Collected date/time
Received date/time
06/14/23 10:34 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN



AW-01 L1628608-02 Non-Potable Water

Collected by
Collected date/time
Received date/time
06/14/23 12:35 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

AW-06 L1628608-03 Non-Potable Water

Collected by
Collected date/time
Received date/time
06/14/23 10:33 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

AW-08 L1628608-04 Non-Potable Water

Collected by
Collected date/time
Received date/time
06/14/23 14:24 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

AW-18 L1628608-05 Non-Potable Water

Collected by
Collected date/time
Received date/time
06/14/23 12:08 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

AW-19 L1628608-06 Non-Potable Water

Collected by
Collected date/time
Received date/time
06/14/23 13:40 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

AW-19 DUP L1628608-07 Non-Potable Water

Collected by
 Collected date/time 06/14/23 13:40
 Received date/time 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:26	RGT	Mt. Juliet, TN

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

AW-21 L1628608-08 Non-Potable Water

Collected by
 Collected date/time 06/14/23 15:40
 Received date/time 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:26	RGT	Mt. Juliet, TN

EB-01 L1628608-09 Non-Potable Water

Collected by
 Collected date/time 06/14/23 16:03
 Received date/time 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:26	RGT	Mt. Juliet, TN

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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.30		0.596	1.01	07/20/2023 16:47	WG2093281
(T) Barium	70.8			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	96.1			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.53		0.840	1.07	07/20/2023 16:47	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.23		0.592	0.355	07/17/2023 21:25	WG2094942
(T) Barium-133	90.3			30.0-143	07/17/2023 21:25	WG2094942

- 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	-0.461	<u>U</u>	0.369	0.695	07/20/2023 16:47	WG2093281
(T) Barium	82.0			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	109			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.773		0.492	0.725	07/20/2023 16:47	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.773		0.325	0.207	07/17/2023 21:25	WG2094942
(T) Barium-133	99.1			30.0-143	07/17/2023 21:25	WG2094942

- 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	0.413	J	0.251	0.447	07/20/2023 16:47	WG2093281
(T) Barium	83.3			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	107			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.910		0.400	0.540	07/20/2023 16:47	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.498		0.311	0.303	07/17/2023 21:25	WG2094942
(T) Barium-133	91.7			30.0-143	07/17/2023 21:25	WG2094942

- 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	0.815		0.333	0.583	07/20/2023 16:47	WG2093281
(T) Barium	79.7			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	102			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.815		0.392	0.704	07/20/2023 16:47	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	-0.0607	<u>U</u>	0.207	0.394	07/17/2023 21:25	WG2094942
(T) Barium-133	89.1			30.0-143	07/17/2023 21:25	WG2094942

- 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	1.86		0.296	0.479	07/20/2023 16:47	WG2093281
(T) Barium	83.1			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	96.5			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.92		0.508	0.568	07/20/2023 16:47	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.05		0.413	0.305	07/17/2023 21:25	WG2094942
(T) Barium-133	91.3			30.0-143	07/17/2023 21:25	WG2094942

- 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	0.294	J	0.213	0.379	07/21/2023 16:40	WG2093699
(T) Barium	96.3			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	106			30.0-136	07/21/2023 16:40	WG2093699

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.471	J	0.325	0.520	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.178	J	0.245	0.356	07/17/2023 21:25	WG2094942
(T) Barium-133	83.9			30.0-143	07/17/2023 21:25	WG2094942

- 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	0.458		0.221	0.387	07/21/2023 16:40	WG2093699
(T) Barium	93.3			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	108			30.0-136	07/21/2023 16:40	WG2093699

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.04		0.400	0.494	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.585		0.334	0.307	07/17/2023 21:26	WG2094942
(T) Barium-133	96.5			30.0-143	07/17/2023 21:26	WG2094942

- 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	0.103	<u>U</u>	0.259	0.470	07/21/2023 16:40	WG2093699
(T) Barium	83.1			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	93.8			30.0-136	07/21/2023 16:40	WG2093699

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.326	<u>J</u>	0.355	0.573	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.224	<u>J</u>	0.243	0.327	07/17/2023 21:26	WG2094942
(T) Barium-133	101			30.0-143	07/17/2023 21:26	WG2094942

- 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	-0.185	<u>U</u>	0.208	0.389	07/21/2023 16:40	WG2093699
(T) Barium	92.6			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	111			30.0-136	07/21/2023 16:40	WG2093699

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0292	<u>U</u>	0.264	0.494	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0292	<u>U</u>	0.163	0.305	07/17/2023 21:26	WG2094942
(T) Barium-133	97.1			30.0-143	07/17/2023 21:26	WG2094942

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

Method Blank (MB)

(MB) R3952228-1 07/20/23 16:47

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.237	<u>J</u>	0.171	0.309
(T) Barium	86.7		86.7	
(T) Yttrium	106		106	

L1628597-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1628597-03 07/20/23 16:47 • (DUP) R3952228-5 07/20/23 16:47

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	0.234	0.470	0.850	-0.986	0.427	0.850	1	200	1.92	<u>U</u>	20	3
(T) Barium	74.6			88.3	88.3							
(T) Yttrium	102			96.1	96.1							

Laboratory Control Sample (LCS)

(LCS) R3952228-2 07/20/23 16:47

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.29	106	80.0-120	
(T) Barium			87.9		
(T) Yttrium			106		

L1628608-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628608-02 07/20/23 16:47 • (MS) R3952228-3 07/20/23 16:47 • (MSD) R3952228-4 07/20/23 16:47

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	-0.461	18.0	18.9	107	113	1	70.0-130			5.00		20
(T) Barium		82.0			82.6	79.5							
(T) Yttrium		109			106	93.4							

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

Method Blank (MB)

(MB) R3952414-1 07/21/23 16:40

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.282	↓	0.186	0.328
(T) Barium	97.5		97.5	
(T) Yttrium	95.0		95.0	

L1628609-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1628609-05 07/21/23 16:40 • (DUP) R3952414-5 07/21/23 16:40

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	-0.375	0.338	0.619	0.502	0.392	0.619	1	200	1.70	↓	20	3
(T) Barium	79.4			85.7	85.7							
(T) Yttrium	106			111	111							

Laboratory Control Sample (LCS)

(LCS) R3952414-2 07/21/23 16:40

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.63	113	80.0-120	
(T) Barium			88.4		
(T) Yttrium			110		

L1628608-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628608-09 07/21/23 16:40 • (MS) R3952414-3 07/21/23 16:40 • (MSD) R3952414-4 07/21/23 16:40

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	-0.185	9.88	10.1	98.8	101	1	70.0-130			2.22		20
(T) Barium		92.6			95.1	100							
(T) Yttrium		111			106	111							

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

Method Blank (MB)

(MB) R3950486-1 07/17/23 21:25

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	-0.0120	<u>U</u>	0.0199	0.0625
(T) Barium-133	93.8		93.8	

L1628608-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1628608-04 07/17/23 21:25 • (DUP) R3950486-5 07/17/23 21:25

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	-0.0607	0.207	0.394	0.121	0.176	0.394	1	200	0.667	<u>J</u>	20	3
(T) Barium-133	89.1			94.2	94.2							

Laboratory Control Sample (LCS)

(LCS) R3950486-2 07/17/23 21:25

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.64	92.5	80.0-120	
(T) Barium-133			94.4		

L1628609-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628609-03 07/17/23 21:25 • (MS) R3950486-3 07/17/23 21:25 • (MSD) R3950486-4 07/17/23 21:25

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	0.203	18.8	17.7	92.8	87.2	1	75.0-125			6.15		20
(T) Barium-133		85.6			83.0	87.6							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

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

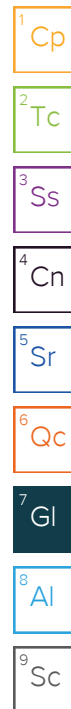
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

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



ACCREDITATIONS & LOCATIONS

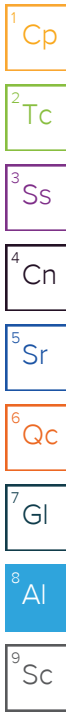
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



June 28, 2023

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

RE: Project: GF02943/Vistra-Edwards
Pace Project No.: 50347865

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 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: GF02943/Vistra-Edwards
Pace Project No.: 50347865

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: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50347865001	AP07S	Water	06/15/23 11:03	06/22/23 09:15
50347865002	AW-05	Water	06/15/23 11:31	06/22/23 09:15
50347865003	EB-2	Water	06/15/23 14:00	06/22/23 09:15
50347865004	APW-01	Water	06/14/23 15:44	06/22/23 09:15
50347865005	AW-20	Water	06/15/23 10:05	06/22/23 09:15
50347865006	AW-23	Water	06/14/23 13:23	06/22/23 09:15
50347865007	EWM-05	Water	06/15/23 07:41	06/22/23 09:15
50347865008	DUP-1	Water	06/15/23 10:10	06/22/23 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50347865001	AP07S	RSK 175 Modified	JRW	3	PASI-I
50347865002	AW-05	RSK 175 Modified	JRW	3	PASI-I
50347865003	EB-2	RSK 175 Modified	JRW	3	PASI-I
50347865004	APW-01	RSK 175 Modified	JRW	3	PASI-I
50347865005	AW-20	RSK 175 Modified	JRW	3	PASI-I
50347865006	AW-23	RSK 175 Modified	JRW	3	PASI-I
50347865007	EWM-05	RSK 175 Modified	JRW	3	PASI-I
50347865008	DUP-1	RSK 175 Modified	JRW	3	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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SUMMARY OF DETECTION

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50347865005	AW-20					
RSK 175 Modified	Methane	28.7	ug/L	10.0	06/23/23 22:23	
50347865008	DUP-1					
RSK 175 Modified	Methane	24.1	ug/L	10.0	06/23/23 23:26	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards

Pace Project No.: 50347865

Sample: AP07S	Lab ID: 50347865001	Collected: 06/15/23 11:03	Received: 06/22/23 09:15	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

Ethane	ND	ug/L	10.0	1		06/23/23 20:36	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 20:36	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 20:36	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards

Pace Project No.: 50347865

Sample: AW-05	Lab ID: 50347865002	Collected: 06/15/23 11:31	Received: 06/22/23 09:15	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

Ethane	ND	ug/L	10.0	1		06/23/23 20:58	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 20:58	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 20:58	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Sample: EB-2		Lab ID: 50347865003		Collected: 06/15/23 14:00	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 21:19	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 21:19	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 21:19	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Sample: APW-01		Lab ID: 50347865004		Collected: 06/14/23 15:44	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 22:02	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 22:02	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 22:02	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Sample: AW-20		Lab ID: 50347865005		Collected: 06/15/23 10:05	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 22:23	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 22:23	74-85-1	
Methane	28.7	ug/L	10.0	1		06/23/23 22:23	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Sample: AW-23		Lab ID: 50347865006		Collected: 06/14/23 13:23	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 22:44	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 22:44	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 22:44	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Sample: EWM-05		Lab ID: 50347865007		Collected: 06/15/23 07:41	Received: 06/22/23 09:15	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						
Ethane	ND	ug/L	10.0	1		06/23/23 23:05	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 23:05	74-85-1	
Methane	ND	ug/L	10.0	1		06/23/23 23:05	74-82-8	

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards

Pace Project No.: 50347865

Sample: DUP-1	Lab ID: 50347865008	Collected: 06/15/23 10:10	Received: 06/22/23 09:15	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

Ethane	ND	ug/L	10.0	1		06/23/23 23:26	74-84-0	
Ethene	ND	ug/L	10.0	1		06/23/23 23:26	74-85-1	
Methane	24.1	ug/L	10.0	1		06/23/23 23:26	74-82-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GF02943/Vistra-Edwards
Pace Project No.: 50347865

QC Batch: 740903 Analysis Method: RSK 175 Modified
QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50347865001, 50347865002, 50347865003, 50347865004, 50347865005, 50347865006, 50347865007, 50347865008

METHOD BLANK: 3398470 Matrix: Water
Associated Lab Samples: 50347865001, 50347865002, 50347865003, 50347865004, 50347865005, 50347865006, 50347865007, 50347865008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/23/23 16:02	
Ethene	ug/L	ND	10.0	06/23/23 16:02	
Methane	ug/L	ND	10.0	06/23/23 16:02	

LABORATORY CONTROL SAMPLE: 3398471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	1980	1940	98	68-135	
Ethene	ug/L	2250	2440	109	79-128	
Methane	ug/L	1980	1900	96	64-132	

SAMPLE DUPLICATE: 3398723

Parameter	Units	50347822012 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	3.9J		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	ND	ND		20	

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: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

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: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50347865001	AP07S	RSK 175 Modified	740903		
50347865002	AW-05	RSK 175 Modified	740903		
50347865003	EB-2	RSK 175 Modified	740903		
50347865004	APW-01	RSK 175 Modified	740903		
50347865005	AW-20	RSK 175 Modified	740903		
50347865006	AW-23	RSK 175 Modified	740903		
50347865007	EWM-05	RSK 175 Modified	740903		
50347865008	DUP-1	RSK 175 Modified	740903		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: Steve 4/22/23 1340

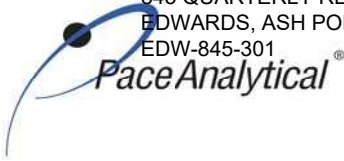
- 1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____
- 2. Custody Seal on Cooler/Box Present: Yes No
(If yes)Seals Intact: Yes No (leave blank if no seals were present)
- 3. Thermometer: 1 2 3 4 5 6 A B C D E F G
- 4. Cooler Temperature(s): 0.2/0.3
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (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. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	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:		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 Containter 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)			Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	

COMMENTS:



ANALYTICAL REPORT

July 25, 2023

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

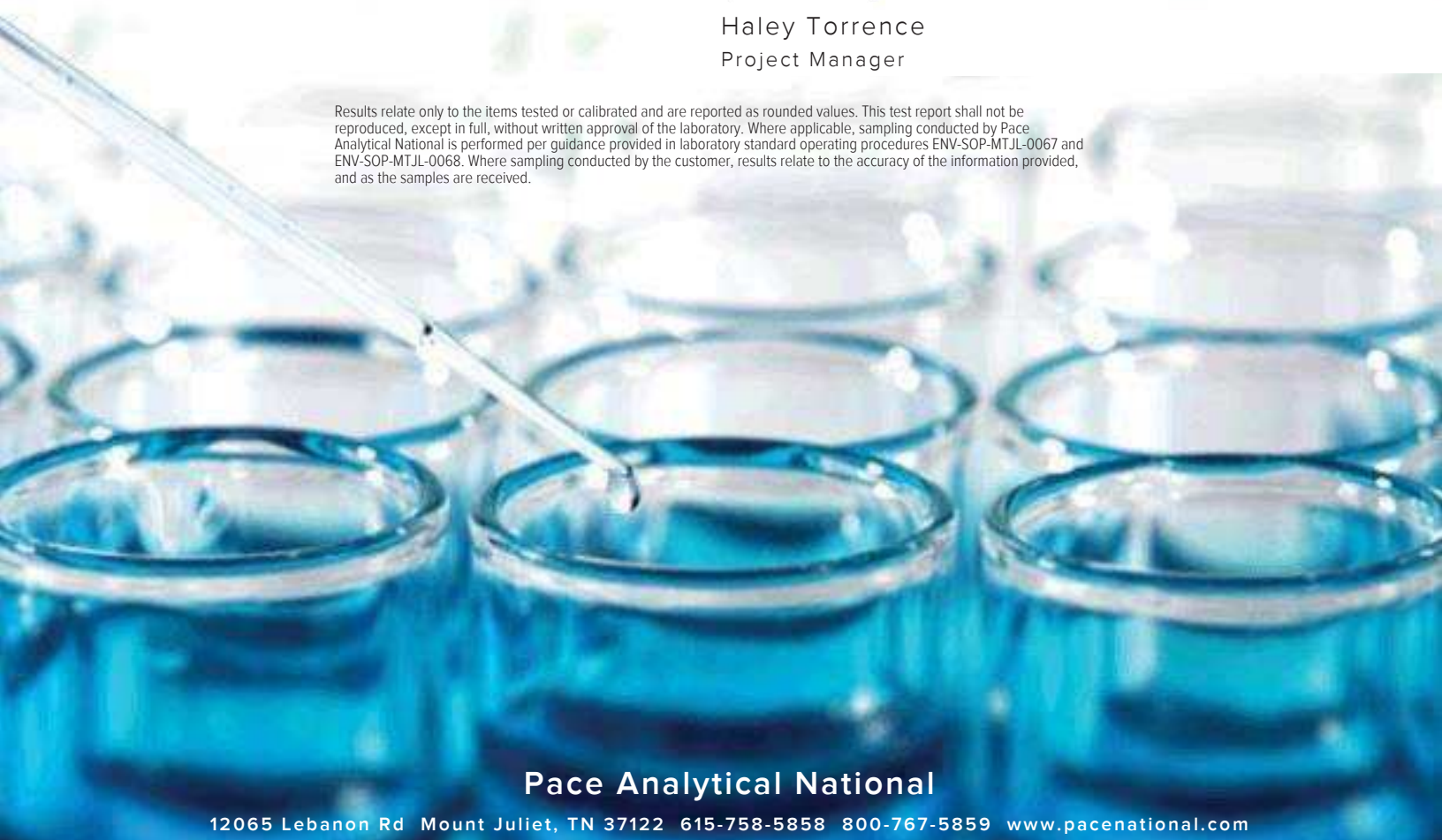
Pace IR - Peoria, IL

Sample Delivery Group: L1628597
Samples Received: 06/22/2023
Project Number: GF02943
Description: Vistra-Edwards
Site: 001
Report To: Gail Schindler
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence
Project Manager










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



Pace Analytical National

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

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SAMPLE SUMMARY

AP07S L1628597-01 Non-Potable Water

Collected by
 Collected date/time
 Received date/time
 06/15/23 11:03 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094500	1	07/14/23 10:09	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094500	1	07/14/23 10:09	07/17/23 16:47	RGT	Mt. Juliet, TN

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

AW-05 L1628597-02 Non-Potable Water

Collected by
 Collected date/time
 Received date/time
 06/15/23 11:31 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094500	1	07/14/23 10:09	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094500	1	07/14/23 10:09	07/17/23 16:47	RGT	Mt. Juliet, TN

EB-02 L1628597-03 Non-Potable Water

Collected by
 Collected date/time
 Received date/time
 06/15/23 14:00 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094500	1	07/14/23 10:09	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094500	1	07/14/23 10:09	07/17/23 16:47	RGT	Mt. Juliet, TN

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

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.539	J	0.622	1.14	07/20/2023 16:47	WG2093281
(T) Barium	64.7			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	94.0			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.20		0.709	1.19	07/20/2023 16:47	WG2094500

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.664		0.341	0.327	07/17/2023 16:47	WG2094500
(T) Barium-133	105			30.0-143	07/17/2023 16:47	WG2094500

- 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	2.55		0.685	1.18	07/20/2023 16:47	WG2093281
(T) Barium	66.6			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	96.6			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.09		0.753	1.22	07/20/2023 16:47	WG2094500

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.540		0.313	0.305	07/17/2023 16:47	WG2094500
(T) Barium-133	97.1			30.0-143	07/17/2023 16:47	WG2094500

- 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	0.234	<u>U</u>	0.470	0.850	07/20/2023 16:47	WG2093281
(T) Barium	74.6			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	102			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.323	<u>U</u>	0.491	0.879	07/20/2023 16:47	WG2094500

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0895	<u>J</u>	0.143	0.222	07/17/2023 16:47	WG2094500
(T) Barium-133	114			30.0-143	07/17/2023 16:47	WG2094500

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

Method Blank (MB)

(MB) R3952228-1 07/20/23 16:47

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.237	<u>J</u>	0.171	0.309
(T) Barium	86.7		86.7	
(T) Yttrium	106		106	

L1628597-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1628597-03 07/20/23 16:47 • (DUP) R3952228-5 07/20/23 16:47

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	0.234	0.470	0.850	-0.986	0.427	0.850	1	200	1.92	<u>U</u>	20	3
(T) Barium	74.6			88.3	88.3							
(T) Yttrium	102			96.1	96.1							

Laboratory Control Sample (LCS)

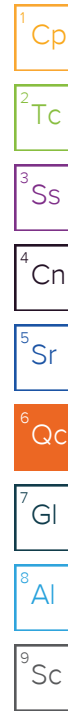
(LCS) R3952228-2 07/20/23 16:47

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.29	106	80.0-120	
(T) Barium			87.9		
(T) Yttrium			106		

L1628608-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628608-02 07/20/23 16:47 • (MS) R3952228-3 07/20/23 16:47 • (MSD) R3952228-4 07/20/23 16:47

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	-0.461	18.0	18.9	107	113	1	70.0-130			5.00		20
(T) Barium		82.0			82.6	79.5							
(T) Yttrium		109			106	93.4							



Method Blank (MB)

(MB) R3950475-1 07/17/23 16:47

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.0509		0.0411	0.0407
(T) Barium-133	93.1		93.1	

L1628597-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1628597-03 07/17/23 16:47 • (DUP) R3950475-5 07/17/23 16:47

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	0.0895	0.143	0.222	0.202	0.189	0.222	1	77.4	0.476	J	20	3
(T) Barium-133	114			111	111							

Laboratory Control Sample (LCS)

(LCS) R3950475-2 07/17/23 16:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.67	93.2	80.0-120	
(T) Barium-133			99.2		

L1628545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628545-01 07/17/23 16:47 • (MS) R3950475-3 07/17/23 16:47 • (MSD) R3950475-4 07/17/23 16:47

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	1.62	20.6	20.1	94.8	92.3	1	75.0-125			2.46		20
(T) Barium-133		94.1			88.1	98.7							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

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

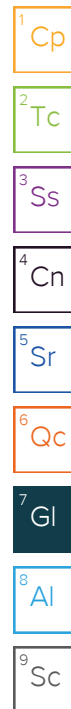
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

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



ACCREDITATIONS & LOCATIONS

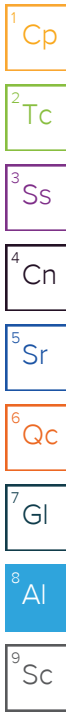
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



6702086/2088
SMW 6-13-23

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:

Page: **1** of **2**

EDW-845-301

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID/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		# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1	AP05S									
2	AP07S									
3	AW-01									
4	AW-05									
5	AW-06									
6	AW-08									
7	AW-09									
8	AW-10									
9	AW-11									
10	AW-14									
11	AW-15									
12	AW-15S									
13	AW-16									
14	AW-17									
15	AW-18									
16	AW-19									

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: Breiden Blum DATE: 6/12/23 TIME: 16:45

ACCEPTED BY / AFFILIATION: Van Wagon DATE: 6-13-23 TIME: 6:30

Temp in °C: 43

Received on Ice (Y/N): Y Cooled (Y/N): N Sealed (Y/N): N Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Breiden Blum
SIGNATURE of SAMPLER: Breiden Blum
DATE Signed (MM/DD/YYYY): 06/12/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

5702086
Vmw 6-13-23

Required Client Information: Company: Vistra Corp Address: 13488 E. 900th St Email To: Brian.Voelker@VistraCorp.com Phone: (217) 753-8911 Fax: Requested Due Date/TAT: 10 day

Required Project Information: Report To: Brian Voelker Copy To: Jason Stuckey Purchase Order No.: Project Name: Project Number: 2285

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 RCRA OTHER UST Site Location: IL STATE: Project No./ Lab I.D.

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DW DRINKING WATER WT WASTE WATER WW PRODUCT P SL SOIL/SOLID SL OTHER W/P AS AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME					
1			AW-21								
2			SG-01								
3			XPW01A	G	6/12/23	1532	14				
4			XPW02								
5			XPW03								
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											

ADDITIONAL COMMENTS: EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: Brandon Blum

DATE: 6/12/23

TIME: 6:15

ACCEPTED BY / AFFILIATION: Van Wofjan

DATE: 6-13-23

TIME: 630

SAMPLE CONDITIONS: Received on Ice (Y/N) Y, Custody Sealed (Y/N) N, Cooler (Y/N) N, Samples Intact (Y/N) Y

Temp in °C: 4.3

SAMPLER NAME AND SIGNATURE: Brandon Blum

PRINT Name of SAMPLER: Brandon Blum

SIGNATURE of SAMPLER: Brandon Blum

DATE Signed (MM/DD/YYYY): 06/12/23

GFO 2086
Vmw 6-13-23

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 #:

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

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER WASTE WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Y/N ↑ Analysis Test ↑	EDW-257-301 EDW-845-301 EDW-SUP-000	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
1	AW-10		WG	G	6/13/23		15					
2	AW-11				1320							
3	AW-14				1354							
4	AW-17				1120							
5	XPW 02				1529							
6	XPW 03				1206							
7	AW-10 Dup				1338							
8					1520							
9												
10												
11												
12												
13												
14												
15												
16												

EDW-23Q2-Rev 0-Part A-Lab

ADDITIONAL COMMENTS: Jason R Reed

RELINQUISHED BY / AFFILIATION: Jason R Reed DATE: 6/13/23 TIME: 1651

ACCEPTED BY / AFFILIATION: Vanah Weyman DATE: 6-13-23 TIME: 1651

Temp in °C: 17.7 Received on Ice (Y/N): Y Custody Sealed Cooler (Y/N): N Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jason R Reed DATE Signed (MM/DD/YYYY): 6/13/23
SIGNATURE of SAMPLER: Jason R Reed

GFO 2677
Vmw 6-14-23

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**
Quota 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 (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Project No. / Lab I.D.
				DATE	TIME				
1	SAMPLE ID (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE		G	6/14/23	1034	15	Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ O ₂ Methanol Other		
2	APO55		G	6/14/23	1035	15			
3	AW-01		G	6/14/23	1033	15			
4	AW-06		G	6/14/23	1421	15			
5	AW-08		G	6/14/23	208	15			
6	AW-18		G	6/14/23	1340	15			
7	AW-19 vmw 6-14-23		G	6/14/23	1540	15			
8	AW-19 FOR DUP		G	6/14/23	1540	15			
9	AW-21		G	6/14/23	1603	15			
10	vmw EB-1 EB-01								
11	6-14-23								
12									
13									
14									
15									
16									

ADDITIONAL COMMENTS
EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: *Brian Voelker* gs
DATE: 6/14/23
TIME: 1654

ACCEPTED BY / AFFILIATION: *Van Wygen*
DATE: 6-14-23
TIME: 1654

Temp in °C: 20.5
Received on Ice (Y/N): Y
Custody Sealed (Y/N): N
Cooler (Y/N): Y
Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE: *Brian Voelker*
PRINT Name of SAMPLER: *Brian Voelker*
SIGNATURE of SAMPLER: *Brian Voelker*
DATE Signed (MM/DD/YYYY): 6/14/23

GFO2943
 Vmw 6-15-23

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) 759-8911** Fax:

Section B
 Required Project Information:
 Report To: **Brian Voelker**
 Copy To: **Jason Stuckey**
 Purchase Order No.:
 Project Name:
 Project Number: **2285**
 Requested Due Date/TAT: **10 day**

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: **IL**

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DW WATER PRODUCT OIL WPE AIR OTHER TISSUE DW WATER PRODUCT OIL WPE AIR OTHER TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	PRESERVATIVES	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE APDTS AW-05 FB-02		WTG		6/15/23	1103	15	Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	EDW-257-301	Residual Chlorine (Y/N)
2			WTG		6/15/23	1131	15		EDW-845-301	
3						6/15/23	1400			
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: **Joseph R Reed** DATE: **6/15/23** TIME: **1522**

ACCEPTED BY / AFFILIATION: **Jason Stuckey** DATE: **6-15-23** TIME: **1522**

SAMPLER NAME AND SIGNATURE: **Joseph R Reed**

PRINT Name of SAMPLER: **Joseph R Reed**

SIGNATURE of SAMPLER: *Joseph R Reed*

DATE Signed (MM/DD/YYYY): **6/15/23**

Received on Ice (Y/N): **Y**

Custody Sealed (Y/N): **N**

Cooler (Y/N): **N**

Samples Intact (Y/N): **Y**

Temperature: **29.3**

GF02943
Vmw 6-15-23

COC #: 0615-001

Page: 1 of 1

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: **13488 E. 900th St**
Email To: **Brian.Voelker@VistraCorp.com**
Phone: **(217) 753-8811** Fax:
Requested Due Date/RTA: **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 #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OIL WASTE AIR WA AIR AIR OTHER OT TISSUE TS	SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH + ZnAc Na ₂ S ₂ O ₃ Methanol Other	Y/N	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
				DATE	TIME						
1	APW-01	G	GM	6/14/23	15:44		15	X X X X	X		
2	AW-20	G		6/15/23	10:05		15	X X X X	X		
3	AW-23	G		6/14/23	13:23		15	X X X X	X		
4	EMW-05	G		6/15/23	07:44		15	X X X X	X		
6	DUP-1	G		6/15/23	10:10		15	X X X X	X		
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
EDW-23Q2-Rev 0-Part B-Ramboil	Jason Stuckey (Pace)	6/15/23	12:27	Jason Stuckey (Pace)	6/15/23	12:27		Y	N	Y
EMW-05 = MS/MSDI	Jason Stuckey	6/15/23	15:32	Lauren Anderson	6-15-23	15:22	7.4	Y	N	Y

DATE SIGNED (MM/DD/YYYY): **6/15/23**
PRINT Name of SAMPLER: **LAUREN ANDERSON**
SIGNATURE OF SAMPLER: *[Signature]*



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

August 24, 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.

Sincerely,

A handwritten signature in cursive script that reads "Gail Schindler".

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com



SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GF02086

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
YES	Case narrative provided



Work Order GF02645

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 GF02896

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



ANALYTICAL RESULTS



ANALYTICAL RESULTS



ANALYTICAL RESULTS



ANALYTICAL RESULTS



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ANALYTICAL RESULTS



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: GF02896-04
Name: APW-01
Matrix: Ground Water - Grab

Sampled: 06/14/23 15:44
Received: 06/15/23 15:22
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	120	mg/L		06/16/23 00:44	50	50	06/16/23 00:44	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/16/23 00:08	1	0.250	06/16/23 00:08	CRD	EPA 300.0 REV 2.1
Sulfate	290	mg/L		06/16/23 00:44	50	50	06/16/23 00:44	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.95	Feet		06/14/23 15:44	1		06/14/23 15:44	FIELD	Field*
Dissolved oxygen, Field	0.15	mg/L		06/14/23 15:44	1		06/14/23 15:44	FIELD	Field*
Oxidation Reduction Potential	-197	mV		06/14/23 15:44	1	-500	06/14/23 15:44	FIELD	Field*
pH, Field Measured	7.03	pH Units		06/14/23 15:44	1		06/14/23 15:44	FIELD	Field*
Specific Conductance, Field Measured	1479	umhos/cm		06/14/23 15:44	1		06/14/23 15:44	FIELD	Field*
Temperature, Field Measured	16.9	°C		06/14/23 15:44	1		06/14/23 15:44	FIELD	Field*
Turbidity, Field Measured	161	NTU		06/14/23 15:44	1	0.00	06/14/23 15:44	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	340	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1000	mg/L		06/16/23 13:34	1	26	06/16/23 13:34	MKH	SM 2540C

Soluble Anions - PIA

Soluble General Chemistry - PIA

>6 mg/L

Soluble Metals - PIA



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: GF02896-04
Name: APW-01
Matrix: Ground Water - Grab

Sampled: 06/14/23 15:44
Received: 06/15/23 15:22
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/23/23 11:12	5	3.0	06/28/23 12:37	JMW	EPA 6020A
Arsenic	7.9	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:37	JMW	EPA 6020A
Barium	64	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:37	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:37	JMW	EPA 6020A
Boron	1100	ug/L		06/23/23 11:12	5	10	06/28/23 12:37	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:37	JMW	EPA 6020A
Calcium	170	mg/L		06/23/23 11:12	5	0.20	06/28/23 12:37	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/23/23 11:12	5	4.0	06/28/23 12:37	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/23/23 11:12	5	2.0	06/28/23 12:37	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:37	JMW	EPA 6020A
Magnesium	78	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:37	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/23/23 11:12	5	0.20	06/28/23 12:37	JMW	EPA 6020A
Molybdenum	1.3	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:37	JMW	EPA 6020A
Potassium	0.44	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:37	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:37	JMW	EPA 6020A
Sodium	57	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:37	JMW	EPA 6020A
Thallium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:37	JMW	EPA 6020A
Lithium	< 20	ug/L		06/23/23 11:12	1	20	06/27/23 12:40	BRS	EPA 6010B



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: GF02896-05
Name: AW-20
Matrix: Ground Water - Grab

Sampled: 06/15/23 10:05
Received: 06/15/23 15:22
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	85	mg/L		06/16/23 02:51	10	10	06/16/23 02:51	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/16/23 02:33	1	0.250	06/16/23 02:33	CRD	EPA 300.0 REV 2.1
Sulfate	57	mg/L		06/16/23 02:51	10	10	06/16/23 02:51	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	17.75	Feet		06/15/23 10:05	1		06/15/23 10:05	FIELD	Field*
Dissolved oxygen, Field	1.9	mg/L		06/15/23 10:05	1		06/15/23 10:05	FIELD	Field*
Oxidation Reduction Potential	-178	mV		06/15/23 10:05	1	-500	06/15/23 10:05	FIELD	Field*
pH, Field Measured	7.04	pH Units		06/15/23 10:05	1		06/15/23 10:05	FIELD	Field*
Specific Conductance, Field Measured	1344	umhos/cm		06/15/23 10:05	1		06/15/23 10:05	FIELD	Field*
Temperature, Field Measured	16.0	°C		06/15/23 10:05	1		06/15/23 10:05	FIELD	Field*
Turbidity, Field Measured	44.9	NTU		06/15/23 10:05	1	0.00	06/15/23 10:05	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO3	550	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	840	mg/L		06/16/23 13:34	1	26	06/16/23 13:34	MKH	SM 2540C

Soluble Anions - PIA

Soluble General Chemistry - PIA

5.8 mg/L

Soluble Metals - PIA



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: GF02896-05
Name: AW-20
Matrix: Ground Water - Grab

Sampled: 06/15/23 10:05
Received: 06/15/23 15:22
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/23/23 11:12	5	3.0	06/28/23 12:40	JMW	EPA 6020A
Arsenic	13	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:40	JMW	EPA 6020A
Barium	140	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:40	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:40	JMW	EPA 6020A
Boron	3100	ug/L		06/23/23 11:12	5	10	06/28/23 12:40	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:40	JMW	EPA 6020A
Calcium	160	mg/L		06/23/23 11:12	5	0.20	06/28/23 12:40	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/23/23 11:12	5	4.0	06/28/23 12:40	JMW	EPA 6020A
Cobalt	2.0	ug/L		06/23/23 11:12	5	2.0	06/28/23 12:40	JMW	EPA 6020A
Lead	1.4	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:40	JMW	EPA 6020A
Magnesium	63	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:40	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/23/23 11:12	5	0.20	06/28/23 12:40	JMW	EPA 6020A
Molybdenum	2.7	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:40	JMW	EPA 6020A
Potassium	1.1	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:40	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:40	JMW	EPA 6020A
Sodium	68	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:40	JMW	EPA 6020A
Thallium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:40	JMW	EPA 6020A
Lithium	< 20	ug/L		06/23/23 11:12	1	20	06/27/23 12:42	BRS	EPA 6010B



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: GF02896-06
Name: AW-23
Matrix: Ground Water - Grab

Sampled: 06/14/23 13:23
Received: 06/15/23 15:22
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Anions - PIA</u>									
Chloride	41	mg/L		06/16/23 04:03	25	25	06/16/23 04:03	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/16/23 03:45	1	0.250	06/16/23 03:45	CRD	EPA 300.0 REV 2.1
Sulfate	200	mg/L		06/16/23 04:03	25	25	06/16/23 04:03	CRD	EPA 300.0 REV 2.1
<u>Field - PIA</u>									
Depth, From Measuring Point	5.9	Feet		06/14/23 13:23	1		06/14/23 13:23	FIELD	Field*
Dissolved oxygen, Field	0.27	mg/L		06/14/23 13:23	1		06/14/23 13:23	FIELD	Field*
Oxidation Reduction Potential	-32.5	mV		06/14/23 13:23	1	-500	06/14/23 13:23	FIELD	Field*
pH, Field Measured	6.92	pH Units		06/14/23 13:23	1		06/14/23 13:23	FIELD	Field*
Specific Conductance, Field Measured	1113	umhos/cm		06/14/23 13:23	1		06/14/23 13:23	FIELD	Field*
Temperature, Field Measured	16.1	°C		06/14/23 13:23	1		06/14/23 13:23	FIELD	Field*
Turbidity, Field Measured	35.3	NTU		06/14/23 13:23	1	0.00	06/14/23 13:23	FIELD	Field*
<u>General Chemistry - PIA</u>									
Alkalinity - bicarbonate as CaCO3	360	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	790	mg/L		06/16/23 13:34	1	26	06/16/23 13:34	MKH	SM 2540C

Soluble Anions - PIA

Soluble General Chemistry - PIA

Soluble Metals - PIA



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: GF02896-06
Name: AW-23
Matrix: Ground Water - Grab

Sampled: 06/14/23 13:23
Received: 06/15/23 15:22
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/23/23 11:12	5	3.0	06/28/23 13:03	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:03	JMW	EPA 6020A
Barium	31	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:03	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:03	JMW	EPA 6020A
Boron	490	ug/L		06/23/23 11:12	5	10	06/28/23 13:03	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:03	JMW	EPA 6020A
Calcium	140	mg/L		06/23/23 11:12	5	0.20	06/28/23 13:03	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/23/23 11:12	5	4.0	06/28/23 13:03	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/23/23 11:12	5	2.0	06/28/23 13:03	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:03	JMW	EPA 6020A
Magnesium	52	mg/L		06/23/23 11:12	5	0.10	06/28/23 13:03	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/23/23 11:12	5	0.20	06/28/23 13:03	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:03	JMW	EPA 6020A
Potassium	0.69	mg/L		06/23/23 11:12	5	0.10	06/28/23 13:03	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:03	JMW	EPA 6020A
Sodium	56	mg/L		06/23/23 11:12	5	0.10	06/28/23 13:03	JMW	EPA 6020A
Thallium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:03	JMW	EPA 6020A
Lithium	< 20	ug/L		06/23/23 11:12	1	20	06/27/23 12:43	BRS	EPA 6010B



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: GF02896-07
 Name: EMW-05
 Matrix: Ground Water - Grab

Sampled: 06/15/23 07:41
 Received: 06/15/23 15:22
 PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	23	mg/L	Q4	06/16/23 11:09	5	5.0	06/16/23 11:09	CRD	EPA 300.0 REV 2.1
Sulfate	120	mg/L	Q4	06/16/23 11:27	50	50	06/16/23 11:27	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	21.25	Feet		06/15/23 07:41	1		06/15/23 07:41	FIELD	Field*
Dissolved oxygen, Field	3.8	mg/L		06/15/23 07:41	1		06/15/23 07:41	FIELD	Field*
Oxidation Reduction Potential	-76.6	mV		06/15/23 07:41	1	-500	06/15/23 07:41	FIELD	Field*
pH, Field Measured	7.01	pH Units		06/15/23 07:41	1		06/15/23 07:41	FIELD	Field*
Specific Conductance, Field Measured	1336	umhos/cm		06/15/23 07:41	1		06/15/23 07:41	FIELD	Field*
Temperature, Field Measured	13.3	°C		06/15/23 07:41	1		06/15/23 07:41	FIELD	Field*
Turbidity, Field Measured	3.09	NTU		06/15/23 07:41	1	0.00	06/15/23 07:41	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	610	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		06/21/23 13:56	1	0.250	06/21/23 13:56	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	< 26	mg/L		06/16/23 13:34	1	26	06/16/23 13:34	MKH	SM 2540C

Soluble Anions - PIA

Soluble General Chemistry - PIA

Soluble Metals - PIA



Data not pertinent to the compliance monitoring was removed.

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 Peoria, IL 61615
 (800)752-6651

ANALYTICAL RESULTS

Sample: GF02896-07
Name: EMW-05
Matrix: Ground Water - Grab

Sampled: 06/15/23 07:41
Received: 06/15/23 15:22
PO #: 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Antimony	< 3.0	ug/L		06/23/23 11:12	5	3.0	06/28/23 13:08	JMW	EPA 6020A
Arsenic	1.1	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:08	JMW	EPA 6020A
Barium	70	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:08	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:08	JMW	EPA 6020A
Boron	750	ug/L		06/23/23 11:12	5	10	06/28/23 13:08	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:08	JMW	EPA 6020A
Calcium	190	mg/L		06/23/23 11:12	5	0.20	06/28/23 13:08	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/23/23 11:12	5	4.0	06/28/23 13:08	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/23/23 11:12	5	2.0	06/28/23 13:08	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:08	JMW	EPA 6020A
Magnesium	85	mg/L		06/23/23 11:12	5	0.10	06/28/23 13:08	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/23/23 11:12	5	0.20	06/28/23 13:08	JMW	EPA 6020A
Molybdenum	2.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:08	JMW	EPA 6020A
Potassium	0.48	mg/L		06/23/23 11:12	5	0.10	06/28/23 13:08	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:08	JMW	EPA 6020A
Sodium	23	mg/L		06/23/23 11:12	5	0.10	06/28/23 13:08	JMW	EPA 6020A
Thallium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 13:08	JMW	EPA 6020A
Lithium	< 20	ug/L		06/23/23 11:12	1	20	06/27/23 12:44	BRS	EPA 6010B



ANALYTICAL RESULTS



ANALYTICAL RESULTS



Data not pertinent to the compliance monitoring was removed.

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B335919 - No Prep - SM 2540C</u>									
Blank (B335919-BLK1)				Prepared & Analyzed: 06/13/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B335919-BS1)				Prepared & Analyzed: 06/13/23					
Solids - total dissolved solids (TDS)	1050	mg/L		1000		105	84.9-109		
Duplicate (B335919-DUP2)				Sample: GF02086-01 Prepared & Analyzed: 06/13/23					
Solids - total dissolved solids (TDS)	755	mg/L			790			5	5
<u>Batch B335988 - No Prep - SM 2540C</u>									
Blank (B335988-BLK1)				Prepared & Analyzed: 06/14/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B335988-BS1)				Prepared & Analyzed: 06/14/23					
Solids - total dissolved solids (TDS)	943	mg/L		1000		94	84.9-109		
Duplicate (B335988-DUP1)				Sample: GF02086-11 Prepared & Analyzed: 06/14/23					
Solids - total dissolved solids (TDS)	2560	mg/L			2580			0.8	5
<u>Batch B336023 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B336023-MS1)				Sample: GF02086-01 Prepared & Analyzed: 06/13/23					
Sulfate	1.63	mg/L		1.500	ND	109	80-120		
Matrix Spike Dup (B336023-MSD1)				Sample: GF02086-01 Prepared & Analyzed: 06/13/23					
Fluoride	1.53	mg/L		1.500	ND	102	80-120	2	20
Sulfate	1.73	mg/L		1.500	ND	115	80-120	6	20
<u>Batch B336024 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B336024-MS1)				Sample: GF02086-01 Prepared & Analyzed: 06/13/23					
Sulfate	1.59	mg/L		1.500	ND	106	80-120		
Chloride	< 1.0	mg/L	Q1	1.500	30	NR	80-120		
Matrix Spike Dup (B336024-MSD1)				Sample: GF02086-01 Prepared & Analyzed: 06/13/23					
Chloride	< 1.0	mg/L	Q2	1.500	30	NR	80-120		20
Sulfate	1.71	mg/L		1.500	ND	114	80-120	7	20
<u>Batch B336099 - SW 3015 - EPA 6010B</u>									
Blank (B336099-BLK1)				Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	< 20	ug/L							
LCS (B336099-BS1)				Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	590	ug/L		555.6		106	80-120		
LCS (B336099-BS2)				Prepared: 06/15/23 Analyzed: 06/16/23					
Matrix Spike (B336099-MS1)				Sample: GF02086-11 Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	850	ug/L		555.6	288	101	75-125		
Matrix Spike Dup (B336099-MSD1)				Sample: GF02086-11 Prepared: 06/15/23 Analyzed: 06/20/23					



Data not pertinent to the compliance monitoring was removed.

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B336099-MSD1)				Sample: GF02086-11		Prepared: 06/15/23 Analyzed: 06/20/23			
Lithium	869	ug/L		555.6	288	105	75-125	2	20

Batch B336099 - SW 3015 - EPA 6020A

Blank (B336099-BLK1)				Prepared: 06/15/23 Analyzed: 06/26/23					
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							

LCS (B336099-BS1)				Prepared: 06/15/23 Analyzed: 06/26/23					
Antimony	579	ug/L		555.6		104	80-120		
Arsenic	584	ug/L		555.6		105	80-120		
Barium	577	ug/L		555.6		104	80-120		
Beryllium	547	ug/L		555.6		98	80-120		
Boron	521	ug/L		555.6		94	80-120		
Cadmium	591	ug/L		555.6		106	80-120		
Calcium	6.01	mg/L		5.556		108	80-120		
Chromium	599	ug/L		555.6		108	80-120		
Cobalt	587	ug/L		555.6		106	80-120		
Lead	587	ug/L		555.6		106	80-120		
Magnesium	6.04	mg/L		5.556		109	80-120		
Mercury	56.0	ug/L		55.56		101	80-120		
Molybdenum	576	ug/L		555.6		104	80-120		
Potassium	5.85	mg/L		5.556		105	80-120		
Selenium	587	ug/L		555.6		106	80-120		
Sodium	5.91	mg/L		5.556		106	80-120		



Data not pertinent to the compliance monitoring was removed.

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B336099-BS1)				Prepared: 06/15/23 Analyzed: 06/26/23					
Thallium	581	ug/L		555.6		105	80-120		
Matrix Spike (B336099-MS1)				Sample: GF02086-11		Prepared: 06/15/23 Analyzed: 06/26/23			
Antimony	561	ug/L		555.6	2.71	100	75-125		
Arsenic	738	ug/L		555.6	171	102	75-125		
Barium	568	ug/L		555.6	17.8	99	75-125		
Beryllium	527	ug/L		555.6	ND	95	75-125		
Boron	14300	ug/L	E, Q4	555.6	17200	NR	75-125		
Cadmium	569	ug/L		555.6	1.63	102	75-125		
Calcium	41.4	mg/L		5.556	35.6	103	75-125		
Chromium	564	ug/L		555.6	ND	102	75-125		
Cobalt	553	ug/L		555.6	ND	100	75-125		
Lead	546	ug/L		555.6	ND	98	75-125		
Magnesium	5.74	mg/L		5.556	0.0375	103	75-125		
Mercury	56.8	ug/L		55.56	0.189	102	75-125		
Molybdenum	3590	ug/L		555.6	3160	79	75-125		
Potassium	120	mg/L	Q4	5.556	118	39	75-125		
Selenium	726	ug/L		555.6	182	98	75-125		
Sodium	727	mg/L	E, Q4	5.556	1120	NR	75-125		
Thallium	535	ug/L		555.6	ND	96	75-125		
Matrix Spike Dup (B336099-MSD1)				Sample: GF02086-11		Prepared: 06/15/23 Analyzed: 06/26/23			
Antimony	568	ug/L		555.6	2.71	102	75-125	1	20
Arsenic	738	ug/L		555.6	171	102	75-125	0.04	20
Barium	577	ug/L		555.6	17.8	101	75-125	1	20
Beryllium	531	ug/L		555.6	ND	96	75-125	0.8	20
Boron	14500	ug/L	E, Q4	555.6	17200	NR	75-125	2	20
Cadmium	570	ug/L		555.6	1.63	102	75-125	0.1	20
Calcium	41.5	mg/L		5.556	35.6	105	75-125	0.3	20
Chromium	564	ug/L		555.6	ND	102	75-125	0.05	20
Cobalt	555	ug/L		555.6	ND	100	75-125	0.3	20
Lead	551	ug/L		555.6	ND	99	75-125	0.9	20
Magnesium	5.76	mg/L		5.556	0.0375	103	75-125	0.4	20
Mercury	57.2	ug/L		55.56	0.189	103	75-125	0.7	20
Molybdenum	3610	ug/L		555.6	3160	82	75-125	0.5	20
Potassium	121	mg/L	Q4	5.556	118	43	75-125	0.2	20
Selenium	728	ug/L		555.6	182	98	75-125	0.1	20
Sodium	731	mg/L	E, Q4	5.556	1120	NR	75-125	0.6	20
Thallium	541	ug/L		555.6	ND	97	75-125	1	20

Batch B336170 - IC No Prep - EPA 300.0 REV 2.1



Data not pertinent to the compliance monitoring was removed.

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B336170-MS1)				Sample: GF02086-11		Prepared & Analyzed: 06/14/23			
Chloride	< 1.0	mg/L	Q4	1.500	120	NR	80-120		
Matrix Spike Dup (B336170-MSD1)				Sample: GF02086-11		Prepared & Analyzed: 06/14/23			
Chloride	< 1.0	mg/L	Q4	1.500	120	NR	80-120		20
<u>Batch B336171 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B336171-MS1)				Sample: GF02086-11		Prepared & Analyzed: 06/14/23			
Chloride	< 1.0	mg/L	Q4	1.500	110	NR	80-120		
Matrix Spike Dup (B336171-MSD1)				Sample: GF02086-11		Prepared & Analyzed: 06/14/23			
Chloride	< 1.0	mg/L	Q4	1.500	110	NR	80-120		20
<u>Batch B336245 - No Prep - SM 2540C</u>									
Blank (B336245-BLK1)						Prepared & Analyzed: 06/16/23			
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B336245-BS1)						Prepared & Analyzed: 06/16/23			
Solids - total dissolved solids (TDS)	1000	mg/L		1000		100	84.9-109		
Duplicate (B336245-DUP1)				Sample: GF02896-01		Prepared & Analyzed: 06/16/23			
Solids - total dissolved solids (TDS)	1520	mg/L			1550			2	5
Duplicate (B336245-DUP2)				Sample: GF02896-07		Prepared & Analyzed: 06/16/23			
Solids - total dissolved solids (TDS)	15.0	mg/L			15.0			0	5
<u>Batch B336274 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B336274-MS3)				Sample: GF02645-01		Prepared & Analyzed: 06/15/23			
Sulfate	4.91	mg/L		1.500	3.14	118	80-120		
Matrix Spike Dup (B336274-MSD3)				Sample: GF02645-01		Prepared & Analyzed: 06/15/23			
Sulfate	4.87	mg/L		1.500	3.14	115	80-120	0.8	20
<u>Batch B336276 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B336276-MS1)				Sample: GF02645-01		Prepared & Analyzed: 06/15/23			
Chloride	< 1.0	mg/L	Q4	1.500	47	NR	80-120		
Sulfate	6.40	mg/L	Q1	1.500	4.56	123	80-120		
Matrix Spike Dup (B336276-MSD1)				Sample: GF02645-01		Prepared & Analyzed: 06/15/23			
Sulfate	6.40	mg/L	Q2	1.500	4.56	123	80-120	0.03	20
Chloride	< 1.0	mg/L	Q4	1.500	47	NR	80-120		20
<u>Batch B336277 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B336277-MS1)				Sample: GF02896-01		Prepared & Analyzed: 06/15/23			
Fluoride	1.60	mg/L		1.500	0.151	97	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	76	NR	80-120		



Data not pertinent to the compliance monitoring was removed.

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B336277-MSD1)				Sample: GF02896-01		Prepared & Analyzed: 06/15/23			
Fluoride	1.56	mg/L		1.500	0.151	94	80-120	2	20
Chloride	1.0E9	mg/L	Q4	1.500	76	NR	80-120	0	20
<u>Batch B336278 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B336278-MS1)				Sample: GF02896-01		Prepared & Analyzed: 06/15/23			
Chloride	1.0E9	mg/L	Q4	1.500	75	NR	80-120		
Matrix Spike Dup (B336278-MSD1)				Sample: GF02896-01		Prepared & Analyzed: 06/15/23			
Chloride	1.0E9	mg/L	Q4	1.500	75	NR	80-120	0	20
<u>Batch B336326 - No Prep - SM 2320B 1997</u>									
Duplicate (B336326-DUP1)				Sample: GF02086-01		Prepared & Analyzed: 06/16/23			
Alkalinity - bicarbonate as CaCO3	775	mg/L			788			2	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Duplicate (B336326-DUP2)				Sample: GF02086-06		Prepared & Analyzed: 06/16/23			
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	1100	mg/L			1040			6	10
Duplicate (B336326-DUP3)				Sample: GF02086-11		Prepared & Analyzed: 06/16/23			
Alkalinity - bicarbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - carbonate as CaCO3	200	mg/L			200			0	10
Duplicate (B336326-DUP4)				Sample: GF02645-01		Prepared & Analyzed: 06/16/23			
Alkalinity - bicarbonate as CaCO3	850	mg/L			850			0	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
<u>Batch B336438 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B336438-MS3)				Sample: GF02896-07		Prepared & Analyzed: 06/16/23			
Sulfate	1.00E9	mg/L	Q4	1.500	122	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	23	NR	80-120		
Matrix Spike Dup (B336438-MSD3)				Sample: GF02896-07		Prepared & Analyzed: 06/16/23			
Sulfate	1.00E9	mg/L	Q4	1.500	122	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	23	NR	80-120	0	20
<u>Batch B336439 - IC No Prep - EPA 300.0 REV 2.1</u>									
Matrix Spike (B336439-MS1)				Sample: GF02896-07		Prepared & Analyzed: 06/16/23			
Sulfate	1.00E9	mg/L	Q4	1.500	124	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	22	NR	80-120		
Matrix Spike Dup (B336439-MSD1)				Sample: GF02896-07		Prepared & Analyzed: 06/16/23			
Chloride	1.0E9	mg/L	Q4	1.500	22	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	124	NR	80-120	0	20
<u>Batch B336451 - No Prep - SM 4500 S2 F 2000</u>									



Data not pertinent to the compliance monitoring was removed.

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B336451-BLK3)				Prepared & Analyzed: 06/19/23					
Sulfide	< 2.0	mg/L							
<u>Batch B336531 - No Prep - SM 4500 S2 F 2000</u>									
Blank (B336531-BLK1)				Prepared & Analyzed: 06/20/23					
Sulfide	< 2.0	mg/L							
<u>Batch B336630 - 6020 Sol no prep - EPA 6020A</u>									
Blank (B336630-BLK1)				Prepared: 06/21/23 Analyzed: 06/23/23					
Calcium	< 0.10	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
LCS (B336630-BS1)				Prepared: 06/21/23 Analyzed: 06/23/23					
Calcium	25.0	mg/L		25.00		100	80-120		
Magnesium	25.3	mg/L		25.00		101	80-120		
Potassium	23.9	mg/L		25.00		96	80-120		
Sodium	24.8	mg/L		25.00		99	80-120		
Matrix Spike (B336630-MS1)				Sample: GF02086-01		Prepared: 06/21/23 Analyzed: 06/23/23			
Calcium	137	mg/L		25.00	117	78	75-125		
Magnesium	77.0	mg/L		25.00	52.4	98	75-125		
Potassium	27.2	mg/L		25.00	2.13	100	75-125		
Sodium	148	mg/L	Q4	25.00	129	78	75-125		
Matrix Spike Dup (B336630-MSD1)				Sample: GF02086-01		Prepared: 06/21/23 Analyzed: 06/23/23			
Calcium	137	mg/L		25.00	117	78	75-125	0.08	20
Magnesium	75.8	mg/L		25.00	52.4	94	75-125	2	20
Potassium	26.6	mg/L		25.00	2.13	98	75-125	2	20
Sodium	147	mg/L	Q4	25.00	129	71	75-125	1	20
<u>Batch B336632 - 6020 Sol no prep - EPA 6020A</u>									
Blank (B336632-BLK1)				Prepared: 06/21/23 Analyzed: 06/27/23					



Data not pertinent to the compliance monitoring was removed.

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

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B336632-BLK1)				Prepared: 06/21/23 Analyzed: 06/27/23					
Calcium	< 0.10	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
LCS (B336632-BS1)				Prepared: 06/21/23 Analyzed: 06/27/23					
Calcium	23.3	mg/L		25.00		93	80-120		
Magnesium	23.6	mg/L		25.00		94	80-120		
Potassium	23.6	mg/L		25.00		95	80-120		
Sodium	23.3	mg/L		25.00		93	80-120		
Matrix Spike (B336632-MS1)				Sample: GF02645-01		Prepared: 06/21/23 Analyzed: 06/27/23			
Calcium	113	mg/L		25.00	92.0	85	75-125		
Magnesium	61.8	mg/L		25.00	39.4	90	75-125		
Potassium	27.9	mg/L		25.00	3.87	96	75-125		
Sodium	191	mg/L	Q4	25.00	173	70	75-125		
Matrix Spike Dup (B336632-MSD1)				Sample: GF02645-01		Prepared: 06/21/23 Analyzed: 06/27/23			
Calcium	114	mg/L		25.00	92.0	88	75-125	0.7	20
Magnesium	62.1	mg/L		25.00	39.4	91	75-125	0.6	20
Potassium	27.8	mg/L		25.00	3.87	96	75-125	0.1	20
Sodium	193	mg/L	Q4	25.00	173	78	75-125	1	20
<u>Batch B336660 - No Prep - SM 4500F C 1997</u>									
Matrix Spike (B336660-MS1)				Sample: GF02896-07		Prepared & Analyzed: 06/21/23			
Fluoride	1.22	mg/L		1.000	0.200	102	80-120		
Matrix Spike (B336660-MS2)				Sample: GF02086-11		Prepared & Analyzed: 06/21/23			
Fluoride	1.24	mg/L		1.000	0.276	96	80-120		
Matrix Spike Dup (B336660-MSD1)				Sample: GF02896-07		Prepared & Analyzed: 06/21/23			
Fluoride	1.22	mg/L		1.000	0.200	102	80-120	0.08	20
Matrix Spike Dup (B336660-MSD2)				Sample: GF02086-11		Prepared & Analyzed: 06/21/23			
Fluoride	1.25	mg/L		1.000	0.276	98	80-120	1	20
<u>Batch B336745 - SW 3015 - EPA 6010B</u>									
Blank (B336745-BLK1)				Prepared: 06/22/23 Analyzed: 06/23/23					



Data not pertinent to the compliance monitoring was removed.

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

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B336745-BLK1)									
				Prepared: 06/22/23 Analyzed: 06/23/23					
LCS (B336745-BS1)									
				Prepared: 06/22/23 Analyzed: 06/23/23					
Matrix Spike (B336745-MS1)									
	Sample: GF02645-01			Prepared: 06/22/23 Analyzed: 06/23/23					
Matrix Spike Dup (B336745-MSD1)									
	Sample: GF02645-01			Prepared: 06/22/23 Analyzed: 06/23/23					
<u>Batch B336745 - SW 3015 - EPA 6020A</u>									
Blank (B336745-BLK1)									
				Prepared: 06/22/23 Analyzed: 06/28/23					
LCS (B336745-BS1)									
				Prepared: 06/22/23 Analyzed: 06/28/23					
Matrix Spike (B336745-MS1)									
	Sample: GF02645-01			Prepared: 06/22/23 Analyzed: 06/28/23					
Matrix Spike Dup (B336745-MSD1)									
	Sample: GF02645-01			Prepared: 06/22/23 Analyzed: 06/28/23					
<u>Batch B336834 - 6010 Sol no prep - EPA 6010B</u>									
Blank (B336834-BLK1)									
				Prepared & Analyzed: 06/23/23					
LCS (B336834-BS1)									
				Prepared & Analyzed: 06/23/23					
Matrix Spike (B336834-MS1)									
	Sample: GF02086-01			Prepared & Analyzed: 06/23/23					
Matrix Spike (B336834-MS2)									
	Sample: GF02086-11			Prepared & Analyzed: 06/23/23					
Matrix Spike Dup (B336834-MSD1)									
	Sample: GF02086-01			Prepared & Analyzed: 06/23/23					
Matrix Spike Dup (B336834-MSD2)									
	Sample: GF02086-11			Prepared & Analyzed: 06/23/23					
<u>Batch B336838 - 6010 Sol no prep - EPA 6010B</u>									
Blank (B336838-BLK1)									
				Prepared & Analyzed: 06/23/23					



Data not pertinent to the compliance monitoring was removed.

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

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B336838-BS1)				Prepared & Analyzed: 06/23/23					
Matrix Spike (B336838-MS1)	Sample: GF02645-01		Prepared & Analyzed: 06/23/23						
Matrix Spike (B336838-MS2)	Sample: GF02896-01		Prepared & Analyzed: 06/23/23						
Matrix Spike (B336838-MS3)	Sample: GF02896-07		Prepared & Analyzed: 06/23/23						
Matrix Spike Dup (B336838-MSD1)	Sample: GF02645-01		Prepared & Analyzed: 06/23/23						
Matrix Spike Dup (B336838-MSD2)	Sample: GF02896-01		Prepared & Analyzed: 06/23/23						
Matrix Spike Dup (B336838-MSD3)	Sample: GF02896-07		Prepared & Analyzed: 06/23/23						
<u>Batch B336880 - SW 3015 - EPA 6010B</u>									
Blank (B336880-BLK1)				Prepared: 06/23/23 Analyzed: 06/27/23					
Lithium	< 20	ug/L							
LCS (B336880-BS1)				Prepared: 06/23/23 Analyzed: 06/27/23					
Lithium	565	ug/L		555.6		102	80-120		
Matrix Spike (B336880-MS1)				Prepared: 06/23/23 Analyzed: 06/27/23					
Lithium	558	ug/L		555.6	8.76	99	75-125		
Matrix Spike Dup (B336880-MSD1)				Prepared: 06/23/23 Analyzed: 06/27/23					
Lithium	568	ug/L		555.6	8.76	101	75-125	2	20
<u>Batch B336880 - SW 3015 - EPA 6020A</u>									
Blank (B336880-BLK1)				Prepared: 06/23/23 Analyzed: 06/28/23					
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							



Data not pertinent to the compliance monitoring was removed.

Pace Analytical Services, LLC
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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B336880-BLK1)				Prepared: 06/23/23 Analyzed: 06/28/23					
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B336880-BS1)				Prepared: 06/23/23 Analyzed: 06/28/23					
Antimony	537	ug/L		555.6		97	80-120		
Arsenic	547	ug/L		555.6		98	80-120		
Barium	537	ug/L		555.6		97	80-120		
Beryllium	518	ug/L		555.6		93	80-120		
Boron	495	ug/L		555.6		89	80-120		
Cadmium	538	ug/L		555.6		97	80-120		
Calcium	5.67	mg/L		5.556		102	80-120		
Chromium	548	ug/L		555.6		99	80-120		
Cobalt	544	ug/L		555.6		98	80-120		
Lead	526	ug/L		555.6		95	80-120		
Magnesium	5.96	mg/L		5.556		107	80-120		
Mercury	51.9	ug/L		55.56		93	80-120		
Molybdenum	532	ug/L		555.6		96	80-120		
Potassium	5.61	mg/L		5.556		101	80-120		
Selenium	561	ug/L		555.6		101	80-120		
Sodium	5.90	mg/L		5.556		106	80-120		
Thallium	527	ug/L		555.6		95	80-120		
Matrix Spike (B336880-MS1)				Sample: GF02896-01		Prepared: 06/23/23 Analyzed: 06/28/23			
Antimony	536	ug/L		555.6	ND	97	75-125		
Arsenic	558	ug/L		555.6	1.06	100	75-125		
Barium	660	ug/L		555.6	114	98	75-125		
Beryllium	529	ug/L		555.6	ND	95	75-125		
Boron	13000	ug/L	E, Q4	555.6	18200	NR	75-125		
Cadmium	551	ug/L		555.6	ND	99	75-125		
Calcium	239	mg/L		5.556	238	22	75-125		
Chromium	563	ug/L		555.6	13.4	99	75-125		
Cobalt	542	ug/L		555.6	4.29	97	75-125		
Lead	531	ug/L		555.6	3.22	95	75-125		
Magnesium	95.8	mg/L	Q4	5.556	92.9	53	75-125		
Mercury	55.1	ug/L		55.56	ND	99	75-125		
Molybdenum	558	ug/L		555.6	1.24	100	75-125		
Potassium	6.63	mg/L		5.556	1.18	98	75-125		
Selenium	557	ug/L		555.6	ND	100	75-125		
Sodium	76.4	mg/L	Q4	5.556	73.3	56	75-125		



Data not pertinent to the compliance monitoring was removed.

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

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B336880-MS1)				Sample: GF02896-01		Prepared: 06/23/23 Analyzed: 06/28/23			
Thallium	531	ug/L		555.6	ND	96	75-125		
Matrix Spike Dup (B336880-MSD1)				Sample: GF02896-01		Prepared: 06/23/23 Analyzed: 06/28/23			
Antimony	536	ug/L		555.6	ND	96	75-125	0.2	20
Arsenic	557	ug/L		555.6	1.06	100	75-125	0.1	20
Barium	660	ug/L		555.6	114	98	75-125	0.01	20
Beryllium	540	ug/L		555.6	ND	97	75-125	2	20
Boron	13300	ug/L	E, Q4	555.6	18200	NR	75-125	2	20
Cadmium	549	ug/L		555.6	ND	99	75-125	0.3	20
Calcium	239	mg/L		5.556	238	12	75-125	0.2	20
Chromium	565	ug/L		555.6	13.4	99	75-125	0.4	20
Cobalt	542	ug/L		555.6	4.29	97	75-125	0.05	20
Lead	528	ug/L		555.6	3.22	95	75-125	0.5	20
Magnesium	95.8	mg/L	Q4	5.556	92.9	53	75-125	0.02	20
Mercury	54.5	ug/L		55.56	ND	98	75-125	1	20
Molybdenum	552	ug/L		555.6	1.24	99	75-125	1	20
Potassium	6.66	mg/L		5.556	1.18	99	75-125	0.5	20
Selenium	555	ug/L		555.6	ND	100	75-125	0.5	20
Sodium	76.5	mg/L	Q4	5.556	73.3	57	75-125	0.03	20
Thallium	529	ug/L		555.6	ND	95	75-125	0.4	20
<u>Batch B336909 - No Prep - SM 5310C 2000</u>									
Matrix Spike (B336909-MS1)				Sample: GF02086-01		Prepared & Analyzed: 06/21/23			
Matrix Spike (B336909-MS2)				Sample: GF02086-01		Prepared & Analyzed: 06/22/23			
Matrix Spike (B336909-MS3)				Sample: GF02086-11		Prepared & Analyzed: 06/21/23			
Matrix Spike (B336909-MS4)				Sample: GF02086-11		Prepared & Analyzed: 06/22/23			
Matrix Spike (B336909-MS5)				Sample: GF02645-01		Prepared & Analyzed: 06/22/23			
Matrix Spike (B336909-MS6)				Sample: GF02645-01		Prepared & Analyzed: 06/22/23			
Matrix Spike Dup (B336909-MSD1)				Sample: GF02086-01		Prepared & Analyzed: 06/21/23			
Matrix Spike Dup (B336909-MSD2)				Sample: GF02086-01		Prepared & Analyzed: 06/22/23			
Matrix Spike Dup (B336909-MSD3)				Sample: GF02086-11		Prepared & Analyzed: 06/22/23			



Data not pertinent to the compliance monitoring was removed.

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

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B336909-MSD3)	Sample: GF02086-11			Prepared & Analyzed: 06/22/23					
Matrix Spike Dup (B336909-MSD4)	Sample: GF02086-11			Prepared & Analyzed: 06/22/23					
Matrix Spike Dup (B336909-MSD5)	Sample: GF02645-01			Prepared & Analyzed: 06/22/23					
Matrix Spike Dup (B336909-MSD6)	Sample: GF02645-01			Prepared & Analyzed: 06/22/23					
<u>Batch B337033 - No Prep - SM 5310C 2000</u>									
Matrix Spike (B337033-MS1)	Sample: GF02896-01			Prepared & Analyzed: 06/24/23					
Matrix Spike (B337033-MS2)	Sample: GF02896-01			Prepared & Analyzed: 06/24/23					
Matrix Spike (B337033-MS3)	Sample: GF02896-07			Prepared & Analyzed: 06/24/23					
Matrix Spike (B337033-MS4)	Sample: GF02896-07			Prepared & Analyzed: 06/24/23					
Matrix Spike Dup (B337033-MSD1)	Sample: GF02896-01			Prepared & Analyzed: 06/24/23					
Matrix Spike Dup (B337033-MSD2)	Sample: GF02896-01			Prepared & Analyzed: 06/24/23					
Matrix Spike Dup (B337033-MSD3)	Sample: GF02896-07			Prepared & Analyzed: 06/24/23					
Matrix Spike Dup (B337033-MSD4)	Sample: GF02896-07			Prepared & Analyzed: 06/24/23					
<u>Batch B337074 - 6020 Sol no prep - EPA 6020A</u>									
Blank (B337074-BLK1)				Prepared & Analyzed: 06/27/23					
Calcium	< 0.10	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
LCS (B337074-BS1)				Prepared & Analyzed: 06/27/23					
Calcium	23.5	mg/L		25.00		94	80-120		
Magnesium	24.0	mg/L		25.00		96	80-120		
Potassium	24.0	mg/L		25.00		96	80-120		
Sodium	23.8	mg/L		25.00		95	80-120		
Matrix Spike (B337074-MS1)	Sample: GF02896-01			Prepared & Analyzed: 06/27/23					



Data not pertinent to the compliance monitoring was removed.

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

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B337074-MS1)									
			Sample: GF02896-01		Prepared & Analyzed: 06/27/23				
Calcium	201	mg/L	Q4	25.00	230	NR	75-125		
Magnesium	90.8	mg/L	Q1	25.00	86.8	16	75-125		
Potassium	26.1	mg/L		25.00	0.467	102	75-125		
Sodium	79.6	mg/L	Q1	25.00	71.7	32	75-125		
Matrix Spike Dup (B337074-MSD1)									
			Sample: GF02896-01		Prepared & Analyzed: 06/27/23				
Calcium	205	mg/L	Q4	25.00	230	NR	75-125	2	20
Magnesium	92.2	mg/L	Q2	25.00	86.8	22	75-125	2	20
Potassium	25.7	mg/L		25.00	0.467	101	75-125	1	20
Sodium	80.3	mg/L	Q2	25.00	71.7	35	75-125	0.8	20
<u>Batch B337163 - No Prep - SM 2320B 1997</u>									
Duplicate (B337163-DUP1)									
			Sample: GF02896-01		Prepared & Analyzed: 06/27/23				
Alkalinity - carbonate as CaCO3	< 2.0	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	488	mg/L			488			0	10
Duplicate (B337163-DUP2)									
			Sample: GF02896-07		Prepared & Analyzed: 06/27/23				
Alkalinity - carbonate as CaCO3	< 2.0	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	612	mg/L			612			0	10

NOTES

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

Revised Report - added field parameters to wells collected by Ramboll personnel

* 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

- E Estimated - concentration exceeds the instrument calibration range.
- 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: Gail Schindler, Project Manager



6/13/2023
 smw 6-13-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Project Name:		Quote Reference:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Project Manager:	
				Profile #:	

ITEM #	Section D Required Client Information	Valid Matrix Codes	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	DATE	TIME	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
1	SAMPLE ID (A-Z, 0-9 / -)	DRINKING WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	DIW WT WW P SL OL WP AR OT TS						Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other			
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												

EDW-23Q2-Rev 0-Part A-Lab	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brian Voelker	6/13/23	16:45	Jason Stuckey	6-13-23	6:30	Received on Ice (Y/N) Y Custody Sealed (Y/N) N Cooler (Y/N) N Samples Intact (Y/N) Y
SAMPLER NAME AND SIGNATURE							
PRINT Name of SAMPLER: <i>Breeder Coleman</i>				DATE Signed (MM/DD/YYYY): 06/12/23			
SIGNATURE of SAMPLER: <i>Breeder Coleman</i>							

5702086
 Vmw 6-13-23

Required Client Information:
 Company: Vistra Corp
 Address: 13488 E. 900th St
 Email To: Brian.Voelker@VistraCorp.com
 Phone: (217) 753-8911 Fax:
 Requested Due Date/TAT: 10 day

Required Project Information:
 Report To: Brian Voelker
 Copy To: Jason Stuckey
 Purchase Order No.:
 Project Name:
 Project Number: 2285

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: IL

EDW-845-301

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OTHER (A-Z, 0-9 / -) O/A AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	DATE	TIME	SAMPLER NAME AND SIGNATURE	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.		
																	Y/N	Analysis Test
1	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE																	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		

ADDITIONAL COMMENTS
 EDW-23Q2-Rev 0-Part A-Lab

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Brandon Blum
 SIGNATURE of SAMPLER: Brandon Blum

RELINQUISHED BY / AFFILIATION
 Brandon Blum

DATE
 6/12/23

TIME
 6:15

ACCEPTED BY / AFFILIATION
 Van Wofgen

DATE
 6-13-23

TIME
 6:30

Temp in °C
 4.3

SAMPLE CONDITIONS
 Received on Ice (Y/N) Y
 Custody Sealed (Y/N) N
 Cooler (Y/N) N
 Samples Intact (Y/N) Y

DATE Signed (MM/DD/YYYY): 06/12/23

GFO 2086
Vmw 6-13-23

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

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

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: Jason R Reed DATE: 6/13/23 TIME: 1651

ACCEPTED BY / AFFILIATION: Vanah Weyman DATE: 6-13-23 TIME: 1651

Temp in °C: 17.7 Received on Ice (Y/N): Y Custody Sealed (Y/N): Y Cooler (Y/N): N Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jason R Reed
SIGNATURE of SAMPLER: Jason R Reed DATE Signed (MM/DD/YYYY): 6/13/23

GF02645
 Vmw 6-14-23

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

ITEM #	Section D Required Client Information	Valid Matrix Codes	MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	DATE	TIME	SAMP. TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)				Project No./ Lab I.D.
													Residual Chlorine (Y/N)				
1	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	DRINKING WATER DW									Unpreserved						
2		WASTE WATER WW									H ₂ SO ₄						
3		WASTE WATER PRODUCT P									HNO ₃						
4		SOIL/SOLID									HCl						
5		OIL									NaOH						
6		WIPE									Na ₂ S ₂ O ₃						
7		WIPER									Methanol						
8		WIPER									Other						
9		OTHER															
10		TISSUE															
11																	
12																	
13																	
14																	
15																	
16																	

EDW-23Q2-Rev 0-Part A-Lab		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
		Brian Voelker	6-14-23	1654	Van Wyman	6-14-23	1654	20.5	Y	N	N	Y
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER: <i>Brian Voelker</i> SIGNATURE of SAMPLER: <i>Brian Voelker</i> DATE SIGNED (MM/DD/YYYY): <i>06/14/23</i>										

GF02896
 6-15-23

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:	
Company: Vistra Corp	Report To: Brian Voelker	Invoice Information:	Attention: Jason Stuckey
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:	Site Location: IL
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:	STATE:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AK OTHER OT TISSUE TS	Section D Required Client Information	SAMPLE ID (A-Z, 0-9 / -)	Sample IDs MUST BE UNIQUE	Matrix Code (see valid codes to left)	AMPLE TYPE (G=GRAB C=COMP)	COLLECTED	AMPLE TEMP AT COLLECTION	OF CONTAINERS	Preservatives H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.	SAMPLE CONDITIONS			
													Temp in °C	Received on	Custody Sealed	Cooler (Y/N)
1													23.3	Y	N	Y
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																

EDW-23Q2-Rev 0-Part A-Lab	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	<i>Joseph R Reed</i>	<i>6/15/23</i>	<i>1522</i>	<i>Jason Stuckey</i>	<i>6-15-23</i>	<i>1522</i>
SAMPLER NAME AND SIGNATURE						
PRINT Name of SAMPLER: <i>Joe Reed</i>						
SIGNATURE of SAMPLER: <i>Joseph R Reed</i> DATE Signed (MM/DD/YY): <i>6/15/23</i>						
DATE Signed (MM/DD/YY): <i>6/15/23</i>						

08/21-23



July 28, 2023

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

RE: Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 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 06/28/23. Revised to add headspace qualifier. 062923hmp

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

Sincerely,

Randal Rastorfer for
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: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

Lab ID	Sample ID	Matrix	Date Collected	Date Received
---------------	------------------	---------------	-----------------------	----------------------

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
--------	-----------	--------	----------	-------------------	------------

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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ANALYTICAL RESULTS

Project: GF02088/Mistra-Edwards
Pace Project No.: 50347864

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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ANALYTICAL RESULTS

Project: GF02088/Mistra-Edwards
Pace Project No.: 50347864

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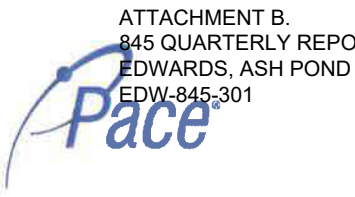


ANALYTICAL RESULTS

Project: GF02088/Mistra-Edwards
Pace Project No.: 50347864

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

REPORT OF LABORATORY ANALYSIS

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Data not pertinent to the compliance monitoring was removed.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

REPORT OF LABORATORY ANALYSIS

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Date: 07/28/2023 10:03 AM

Page 16 of 24

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ANALYTICAL RESULTS

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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Data not pertinent to the compliance monitoring was removed.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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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Data not pertinent to the compliance monitoring was removed.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GF02088/Vistra-Edwards
Pace Project No.: 50347864

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: GF02088/Vistra-Edwards
Pace Project No.: 50347864

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
--------	-----------	-----------------	----------	-------------------	------------------

REPORT OF LABORATORY ANALYSIS

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Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: *MP C/22/23 1340*

1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 *A B C D E F G*

4. Cooler Temperature(s): *02/03*

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)		/			
Short Hold Time Analysis (48 hours or less)? Analysis:		/			/
Time 5035A TC placed in Freezer or Short Holds To Lab Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		/			
Custody Signatures Present?	/		Present	Absent	No VOA Vials Sent
Containers Intact?:	/				/
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/				
Extra labels on Terracore Vials? (soils only)				/	

COMMENTS:

June 29, 2023

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

RE: Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 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: GF02677/Vistra-Edwards
Pace Project No.: 50347870

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

Lab ID	Sample ID	Matrix	Date Collected	Date Received
--------	-----------	--------	----------------	---------------

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GF02677/Vistra-Edwards
 Pace Project No.: 50347870

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
--------	-----------	--------	----------	-------------------	------------

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

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ANALYTICAL RESULTS

Project: GF02677/Vistra-Edwards
Pace Project No.: 50347870

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GF02677/Vistra-Edwards

Pace Project No.: 50347870

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GF02677/Vistra-Edwards

Pace Project No.: 50347870

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: GF02677/Vistra-Edwards
Pace Project No.: 50347870

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
--------	-----------	-----------------	----------	-------------------	------------------

REPORT OF LABORATORY ANALYSIS

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Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: *ms c/22/23 1340*

1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____

2. Custody Seal on Cooler/Box Present: Yes No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 *A B C D E F G*

4. Cooler Temperature(s): *0.2/0.3* 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)		-			
Short Hold Time Analysis (48 hours or less)? Analysis:		-			
Time 5035A TC placed in Freezer or Short Holds To Lab Time:					
Rush TAT Requested (4 days or less):					
Custody Signatures Present?	-				
Containers Intact?:	-				
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	-				
Extra labels on Terracore Vials? (soils only)					
Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present		Absent		N/A
Residual Chlorine Check (Total/Amenable/Free Cyanide)					
Headspace Wisconsin Sulfide?	Present		Absent		No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details					
Trip Blank Present?					
Trip Blank Custody Seals?:					

COMMENTS:

June 28, 2023

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

RE: Project: GF02943/Vistra-Edwards
Pace Project No.: 50347865

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 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: GF02943/Vistra-Edwards
Pace Project No.: 50347865

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50347865004	APW-01	Water	06/14/23 15:44	06/22/23 09:15
50347865005	AW-20	Water	06/15/23 10:05	06/22/23 09:15
50347865006	AW-23	Water	06/14/23 13:23	06/22/23 09:15
50347865007	EWM-05	Water	06/15/23 07:41	06/22/23 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50347865004	APW-01	RSK 175 Modified	JRW	3	PASI-I
50347865005	AW-20	RSK 175 Modified	JRW	3	PASI-I
50347865006	AW-23	RSK 175 Modified	JRW	3	PASI-I
50347865007	EWM-05	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: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards
Pace Project No.: 50347865

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards
Pace Project No.: 50347865

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards
Pace Project No.: 50347865

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ANALYTICAL RESULTS

Project: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Sample: APW-01	Lab ID: 50347865004	Collected: 06/14/23 15:44	Received: 06/22/23 09:15	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: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Sample: AW-20	Lab ID: 50347865005	Collected: 06/15/23 10:05	Received: 06/22/23 09:15	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: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Sample: AW-23	Lab ID: 50347865006	Collected: 06/14/23 13:23	Received: 06/22/23 09:15	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: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Sample: EWM-05	Lab ID: 50347865007	Collected: 06/15/23 07:41	Received: 06/22/23 09:15	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: GF02943/Vistra-Edwards
Pace Project No.: 50347865

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GF02943/Vistra-Edwards
Pace Project No.: 50347865

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: GF02943/Vistra-Edwards
Pace Project No.: 50347865

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: GF02943/Vistra-Edwards
 Pace Project No.: 50347865

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50347865004	APW-01	RSK 175 Modified	740903		
50347865005	AW-20	RSK 175 Modified	740903		
50347865006	AW-23	RSK 175 Modified	740903		
50347865007	EWM-05	RSK 175 Modified	740903		

REPORT OF LABORATORY ANALYSIS

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WO#: 50347865



State of Origin: IL YES NO
 Cert. Needed: YES NO
 Owner Received: YES NO
 Date: 6/15/2023 Results Required By: 7/11/2023



Workorder Name: Vistra - Edwards
 Subcontract To:
 Pace Analytical Services, LLC
 7726 Moller Road
 Indianapolis, IN 46268
 (317)228-3105

Report To: Gail Schindler
 Pace Analytical - IL/MO
 2231 W. Altorfer Drive
 Peoria, IL 61615
 800-752-6651

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	LAB USE ONLY
1							
2							
3							
4	APW-01	GRAB	6/14/2023 15:44	GF02943-04	GW		
5	AW-20	GRAB	6/15/2023 10:05	GF02943-05	GW		
6	AW-23	GRAB	6/14/2023 13:23	GF02943-06	GW		
7	EMW-05	GRAB	6/15/2023 7:41	GF02943-07	GW		
8							
9							
10							

Transfers Released By	Date/Time	Received By	Date/Time	Comments
<i>[Signature]</i>	6/15/23 13:30	<i>[Signature]</i>	6/15/23 09:15	
<i>[Signature]</i>	6/22/23 09:15	<i>[Signature]</i>	6/22/23 09:15	

Transfers Released By: *[Signature]* Date/Time: 6/15/23 13:30
 Received By: *[Signature]* Date/Time: 6/15/23 09:15
 Received By: *[Signature]* Date/Time: 6/22/23 09:15
 Comments: Include QC summary and edd

Cooler Temperature on Receipt: 2.3 °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.

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: *HR 4/22/23 1840*

1. Courier: FED EX UPS CLIENT PACE USPS OTHER _____
2. Custody Seal on Cooler/Box Present: Yes No (leave blank if no seals were present)
- (If yes) Seals Intact: Yes No
3. Thermometer: 1 2 3 4 5 6 *A B C D E F G*
4. Cooler Temperature(s): *0-2/63* 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"/>			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>			
Time 5035A TC placed in Freezer or Short Holds To Lab Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>			
Custody Signatures Present?		<input checked="" type="checkbox"/>	Present	Absent	No VOA Vials Sent
Containers Intact?:		<input checked="" type="checkbox"/>			
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		<input checked="" type="checkbox"/>			
Extra labels on Terracore Vials? (soils only)					

COMMENTS:

6/13/2023
 smw 6-13-23

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
 STATE: IL

Page: 1 of 2

ITEM #	Section D Required Client Information	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	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
1	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE													
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														

Section E
 Requested Analysis Filtered (Y/N)
 Y N
 Analysis Test
 EDW-257-301
 EDW-845-301
 EDW-SUP-000
 Residual Chlorine (Y/N)

Section F
 Requested Analysis Filtered (Y/N)
 Y N
 Analysis Test
 EDW-257-301
 EDW-845-301
 EDW-SUP-000
 Residual Chlorine (Y/N)

Temp in °C: 43
 Received on Ice (Y/N): Y
 Cooled (Y/N): N
 Sealed (Y/N): N
 Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Breiden Coleman
 SIGNATURE of SAMPLER: Breiden Coleman
 DATE Signed (MM/DD/YYYY): 06/12/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

GFO 2677
 Vmw 6-14-23

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: **10 day**
 Requested Due Date/TAT:

Section B Required Project Information: Report To: **Brian Voelker** Copy To: **Jason Stuckey**
 Invoice Information: Attention: **Jason Stuckey** Company Name: **Vistra Corp** Address: **see Section A**
 Quota Reference: Project Manager: Profile #:
 NPDES **GROUND WATER** **DRINKING WATER** **OTHER**
 UST **RCRA**
 Site Location **IL** STATE:

Section C REGULATORY AGENCY

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WT WATER WW PRODUCT P SOLID S SL OIL OIL WIRE WIRE AIR AIR OTHER OTHER TISSUE TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	DATE	TIME	SAMPLER NAME AND SIGNATURE	DATE SIGNED (MM/DD/YY)	TEMP IN °C	RECEIVED ON	CUSTODY SEALED	COOLER (Y/N)	SAMPLES	Requested Analysis Filtered (Y/N)			
															Y/N	Analysis Test		
1	<p>SAMPLE ID (A-Z, 0-9 / .)</p> <p>Sample IDs MUST BE UNIQUE</p>															Residual Chlorine (Y/N)		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		

Section E ADDITIONAL COMMENTS: **EDW-23Q2-Rev 0-Part A-Lab**

RELINQUISHED BY / AFFILIATION: **Brian Voelker** DATE: **6-14-23** TIME: **1654**
 ACCEPTED BY / AFFILIATION: **Jason Stuckey** DATE: **6-14-23** TIME: **1654**
 SAMPLER NAME AND SIGNATURE: **Brian Voelker** DATE SIGNED (MM/DD/YY): **6/14/23**
 PRINT Name of SAMPLER: **Brian Voelker**
 SIGNATURE of SAMPLER: *[Signature]*

GFO2943
 Vmw 6-15-23

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) 759-8911** 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 DW WATER WATER PRODUCT SOIL/SOLID OIL WPE AIR OTHER TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
1	<p>SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE</p>									
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: **Joseph R Reed** DATE: **6/15/23** TIME: **1522**

ACCEPTED BY / AFFILIATION: **Jason Stuckey** DATE: **6-15-23** TIME: **1522**

SAMPLER NAME AND SIGNATURE: **Joseph R Reed**

PRINT Name of SAMPLER: **Joseph R Reed**

SIGNATURE of SAMPLER: *Joseph R Reed*

DATE Signed (MM/DD/YYYY): **6/15/23**

Received on Ice (Y/N): **Y**

Custody Sealed (Y/N): **N**

Cooler (Y/N): **N**

Samples Intact (Y/N): **Y**

Temperature: **29.3**

SAR-3: Depth to Groundwater Measurements
 EDW
 Plant: EDW-23Q2 Rev 1
 Event:

Well	Unique ID	:pisodic	ransducer	nit Number	nit Name	Date	Time	Measured Depth to Water (ft bmn)	Transducer				Initials
									WL from HOBOnnect(N/loaded	Data Logger Serial No	Batt (U/M/V)	
APW-01	EDW APW-01	X	301	AP	6/12/23	11:04	6.76						BG

SAR-3: Depth to Groundwater Measurements

Plant: EDW

Event: EDW-23Q2 Rev 1

Well	Unique ID	Episodic	Transducer	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Transducer			Initials
									WL from HOBconnect (ft)	Downloaded Y/N	Data Logger Serial No.	
AW-20	EDW_AW-20	X	301	AP	6/12/23	10:51	17.61				BG	
AW-23	EDW_AW-23		X 000	Ameren								
EMW-05	EDW_EMW-05		X 301	AP					21615741			
									21615739			

Site: Edwards Ash Pond

Site: Edwards Ash Pond

Site: Edwards Ash Pond

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 2, 2023

EDWARDS, ASH POND

EDW-845-301

Site: Edwards Ash Pond

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 2, 2023

EDWARDS; ASH POND

Site: Edwards Ash Pond

EDW-845-301

ATTACHMENT B.

Data not pertinent to the compliance monitoring was removed.

845 QUARTERLY REPORT - QUARTER 2, 2023

EDWARDS, ASH POND

Site: Edwards Ash Pond

EDW-845-301

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Brendan Glennon</u>				Location: <u>Edwards</u>					
Weather: <u>65° Mostly Sunny 12 mph SE</u>				Environment: <u>Gravel</u>					
Multiparameter Water Meter		Make: <u>AQ Horiba</u>	Model: <u>800</u>	Serial Number: <u>PW2G4J03</u>					
Water Level Meter		Make: <u>Itron</u>	Model: <u>200</u>	Serial Number: <u>19FF211192HB</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.92</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2000</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Geotech	4GK328	Nov-22
ORP	<u>240</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>N/A</u>	InSitu	2GC827	Dec-22
DO (Zero pt)	<u>0.05</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.7</u>	%	97-100%	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)							Time: <u>1120</u>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.15</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC243	Mar-24	
pH 7.00b	<u>6.93</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>9.86</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE820	May-24	
SC 1000	<u>1010</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):							Time: <u>1600</u>		
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1031</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.05</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):							Time:		
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-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>Brendan Glennon</u>	Date: <u>6/12/23</u>
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SC 2000
 2G12084
 Exp. Nov 23
 W-118
 ORP
 3GD927
 Exp. Jan-24
 BG 8/9/23

Multiparameter Meter Field Calibration Checklist

Field Personnel: Kyle Lane				Location: EDWARDS POND					
Weather: 59° to 75° sunny				Environment: DIY					
Multiparameter Water Meter		Make: Haniba	Model: V-5000	Serial Number: SL9K594A					
Water Level Meter		Make: Heron	Model: Water level	Serial Number: 19FF2202131ML					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.	P			MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	±0.1 s.u.	P			MSI	M082-04	3/25/2024
SC Zero (DI)	0.00	µS/cm	0<25 µS/cm	P			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2030	µS/cm	±5%	P			Geotech	3GA1071	Jan-24
ORP	214	mV	±15 mV	P			InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1	P			Macron	#000228049	8/26/2025
DO (Saturated)	98.40	%	97-100%	P			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.33	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:				
						11:49				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	3.92	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	Mar-24		
pH 7.00b	6.89	s.u.	±0.15 s.u.	P		Geotech	2GC931	Mar-24		
pH 10.00b	9.92	s.u.	±0.15 s.u.	P		Geotech	2GE820	May-24		
SC 1000	1000	µS/cm	±5%	P		Ricca	4207N97	Jul-24		

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.	P			MSI	L344-09	12/14/2023	
pH 7.00a		s.u.	±0.1 s.u.	P			MSI	L343-07	12/9/2023	
pH 10.00a		s.u.	±0.1 s.u.	P			MSI	M082-04	3/25/2024	
SC 1000		µS/cm	±5%	P			Ricca	4207N97	Jul-24	
DO (Zero pt)		mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025	
Turbidity (DI)		NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:				
						14:18				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a	4.04	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023	
7.00a	7.00	s.u.	±0.1 s.u.	P			MSI	L343-07	12/9/2023	
10.00a	10.00	s.u.	±0.1 s.u.	P			MSI	M082-04	3/25/2024	
SC 1000	1020	µS/cm	±5%	P			Ricca	4207N97	Jul-24	
DO (Zero pt)	0.06	mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025	
Turbidity (DI)	0.0	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)	

Comments:

Signature: Kyle Lane	Date: 6-12-23
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Multiparameter Meter Field Calibration Checklist

Field Personnel: Joe Reed				Location: Edwards power station					
Weather:				Environment: dusty/gravel/grass					
Multiparameter Water Meter		Make: AquaTrol	Model: 600	Serial Number: 739449					
Water Level Meter		Make: Solis	Model: 100	Serial Number: 33459					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	1.5	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2011	µS/cm	±5%	P	N		Geotech	1GK328	Nov-22
ORP	231	mV	±15 mV	P	N		InSitu	2GC827	Dec-22
DO (Zero pt)	0.04	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	98.9	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	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:				
Buffer	Check Value	Units	Range	Pass/Fail	935	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	±0.15 s.u.	P		N	Geotech	2GC243	Mar-24
pH 7.00b	7.00	s.u.	±0.15 s.u.	P		N	Geotech	2GC931	Mar-24
pH 10.00b	7.98	s.u.	±0.15 s.u.	P		N	Geotech	2GE820	May-24
SC 1000	1009.	µS/cm	±5%	P		N	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	1550	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P		N		MSI	L315-04	11/22/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	P		N		MSI	L172-33	6/23/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.	P		N		MSI	L354-22	1/5/2024
SC 1000	1019	µS/cm	±5%	P		N		Ricca	2108D48	Jul-23
DO (Zero pt)	0.04	mg/L	±0.1 mg/L	P		N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P		N		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	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.					MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.					MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%					Ricca	2108D48	Jul-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: Joseph R Reed	Date: 6/13/23
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SC 2000
 26K086
 Exp. Nov 23
 Lot 1118
 ORP
 36D927
 Exp. Jan 24
 BG
 8/19/23

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Brendan Glennon</u>				Location: <u>Edwards</u>					
Weather: <u>69° Mostly Cloudy 12 mph E</u>				Environment: <u>Gravel Road</u>					
Multiparameter Water Meter		Make: <u>Hanna</u>	Model: <u>BOS2</u>	Serial Number: <u>PLW264JD3</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Direct</u>	Serial Number: <u>19FF2111924B</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>11.12</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2080</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Geotech	1GK328	Nov-22
ORP	<u>241</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>N/A</u>	InSitu	2GC827	Dec-22
DO (Zero pt)	<u>0.07</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.1</u>	%	97-100%	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)							Time: <u>0910</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	<u>4.10</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC243	Mar-24		
pH 7.00b	<u>7.04</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC931	Mar-24		
pH 10.00b	<u>10.00</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE820	May-24		
SC 1000	<u>1010</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4205H64	May-24		

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):							Time: <u>1540</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	<u>4.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L315-04	11/22/2023	
pH 7.00a	<u>7.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L172-33	6/23/2023	
pH 10.00a	<u>9.91</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L354-22	1/5/2024	
SC 1000	<u>1041</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Ricca	2108D48	Jul-23	
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025	
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):							Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023	
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023	
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024	
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-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>Brendan Glennon</u>	Date: <u>6/13/23</u>
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LU
 7/21
 SC 2000
 2GK0816
 Nov. 23
 LU 7/18
 ORP
 3G0927
 Exp Jan-24
 8G 8/4/23

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Brendan Glennon</u>			Location: <u>Edwards</u>		
Weather: <u>70° Partly Cloudy 4 mph S</u>			Environment: <u>Gravel Road</u>		
Multiparameter Water Meter	Make: <u>Horiba</u>	Model: <u>D-5000</u>	Serial Number: <u>PW2G4JDB</u>		
Water Level Meter	Make: <u>Heron</u>	Model: <u>200ft.</u>	Serial Number: <u>19FF2111924B</u> ^{#2}		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.94</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>9.96</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>18</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1430</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Geotech	16K328	Nov-22
ORP	<u>235</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>N/A</u>	InSitu	26C827	Dec-22
DO (Zero pt)	<u>0.08</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.1</u>	%	97-100%	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>0820</u>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.10</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC243	Mar-24
pH 7.00b	<u>7.06</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC931	Mar-24
pH 10.00b	<u>9.91</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE820	May-24
SC 1000	<u>981</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>1545</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1014</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-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>Brendan Glennon</u>	Date: <u>5/13/23</u> <u>14:00</u>
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SC 2000
267K0816
Nov-23
24 7/18
ORP
3610927
Exp Jun-24
8/9/23

Multiparameter Meter Field Calibration Checklist

Field Personnel: Joe Reed				Location: Edwards Power					
Weather: 70° Part Cloudy Wind 4mph				Environment: Dusty Gravel / grass					
Multiparameter Water Meter		Make: Aquatroll	Model: 600	Serial Number: 739449					
Water Level Meter		Make: Solinst	Model: 101	Serial Number: 33459					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	N	/	MSI	L344-09	12/14/2023
pH 7.00a	7.02	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	4.51	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	22.6	µS/cm	±5%	P	N		Geotech	1GK328	Nov-22
ORP	226	mV	±15 mV	P	N		InSitu	2GC827	Dec-22
DO (Zero pt)	0.04	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	99.1	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

23°C

SC 2000
 2GK D8 Lr
 Nov 23
 LM 7/18
 ORP
 3G0927
 Exp. Jan 24
 851 8/1/23

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: 855			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24	
pH 7.00b	7.00	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24	
pH 10.00b	9.99	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24	
SC 1000	1022	µS/cm	±5%	P	N	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: 1600			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	N	/	MSI	L315-04	11/22/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	N		MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.	P	N		MSI	L354-22	1/5/2024
SC 1000	1009	µS/cm	±5%	P	N		Ricca	2108D48	Jul-23
DO (Zero pt)	0.07	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.1	NTU	<2 NTU	P	N		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	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-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: Joseph A. Reed	Date: 6/14/23
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Mike Lane</u>			Location: <u>EDWARDS POND</u>		
Weather: <u>55° to 91° sunny</u>			Environment: <u>DRY</u>		
Multiparameter Water Meter	Make: <u>HORIBA</u>	Model: <u>V-5000</u>	Serial Number: <u>GL9K39HA</u>		
Water Level Meter	Make: <u>HERON</u>	Model: <u>WATER TAP</u>	Serial Number: <u>19FF2202131ML</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.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.99</u>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
pH 10.00a	<u>9.98</u>	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>28.10</u>	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2020</u>	µS/cm	±5%	P	NA	NA	Geotech	3GA1071	Jan-24
ORP	<u>116</u>	mV	±15 mV	P	NA	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.03</u>	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.60</u>	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0</u>	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: <u>09:18</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.97</u>	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	Mar-24	
pH 7.00b	<u>6.94</u>	s.u.	±0.15 s.u.	P	NA	Geotech	2GC931	Mar-24	
pH 10.00b	<u>9.96</u>	s.u.	±0.15 s.u.	P	NA	Geotech	2GE820	May-24	
SC 1000	<u>940</u>	µS/cm	±5%	P	NA	Ricca	4207N97	Jul-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>NA</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC 1000	1000	µS/cm	±5%	P	NA	NA	Ricca	4207N97	Jul-24
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)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>13:29</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<u>4.00</u>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
10.00a	<u>10.06</u>	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC 1000	<u>1006</u>	µS/cm	±5%	P	NA	NA	Ricca	4207N97	Jul-24
DO (Zero pt)	<u>0.01</u>	mg/L	±0.1 mg/L	P	NA	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0</u>	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Comments: ver

Signature: <u>[Signature]</u>	Date: <u>6-15-23</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: Joe Reed	Location: Edward Power Station
Weather: 75-91°F Sunny wind 4-8 mph	Environment: Gravel / Dusty / grassy
Multiparameter Water Meter	Make: Aquatroll Model: 600 Serial Number: 739449
Water Level Meter	Make: Solinst Model: 101 Serial Number: IR 739449 33459

2487

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	N	/	MSI	L344-09	12/14/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	1.1	µS/cm	0 < 25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2002.1	µS/cm	±5%	P	N		Geotech	3GA1071	Jan-24
ORP	220.1	mV	±15 mV	P	N		InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	97.9	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	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:			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Time: 9:15	Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	P		/	Geotech	2GE870	Mar-24
pH 7.00b	7.02	s.u.	±0.15 s.u.	P			Geotech	2GC931	Mar-24
pH 10.00b	10.00	s.u.	±0.15 s.u.	P			Geotech	2GE820	May-24
SC 1000	991	µS/cm	±5%	P			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Time: 14:35	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	N	/	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC 1000	1011	µS/cm	±5%	P	N		Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		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	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: Joseph A Reed	Date: 6/15/23
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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: edwards power plant Client: Vispera
 Project Number: _____ Start Date: 6/14/23 Time: 15:02
 Field Personnel: LAJ, KTH Finish Date: _____ Time: 15:44

WELL INFORMATION
 Well ID: APW-01
 Casing ID: _____ Inches
 Screen Interval: _____ Inches
 Borehole Diameter: _____ Inches
 Filter Pack Interval: _____ Inches

EVENT TYPE
 Well Development
 Low-Flow / Low-Stress Sampling
 Well Volume Approach Sampling
 Other (Specify below)

PURGE INFORMATION
 Purge Method: Bailor Pump
 Bailor Type: n/a
 Pump Type and Serial #: meets pump
 Tube/Pump Intake Depth: _____
 Stabilized Pumping Rate: ~150 ml/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	<u>6.95</u>	<u>15:02</u>	<u>7.03</u>	<u>15:44</u>
DNAPL	NA			
Casing Base	NA			

Volume Calculation Type: Well Casing Borehole
 Volume Per Foot: _____ feet
 Standing Water Column: NA Gallons
 1 Well Volume: _____ Gallons
 5 Well Volumes: 3 Well Volumes: _____ Gallons
 Total Volumes Produced: _____ Gallons
 Well Purged Dry? Yes No

Water Level Serial #: _____ Water Quality Probe Type and Serial # _____

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	<u>15:02</u>	<u>0.0</u>	<u>6.95</u>	<u>0.0</u>	<u>21.84</u>	<u>1,370.6</u>	<u>6.42</u>	<u>6.95</u>	<u>738.25</u>	<u>-195.0</u>	<u>clear</u>
purge	<u>15:08</u>		<u>6.95</u>		<u>17.69</u>	<u>1,463.2</u>	<u>0.52</u>	<u>6.95</u>	<u>61.01</u>	<u>-189.3</u>	<u>clear</u>
	<u>15:11</u>		<u>6.95</u>								
	<u>15:14</u>		<u>6.95</u>								
	<u>15:17</u>		<u>6.95</u>								
	<u>15:20</u>		<u>6.95</u>								
	<u>15:23</u>		<u>6.95</u>								
	<u>15:26</u>		<u>6.95</u>								

NOTES
002 no data
FIELD PUMP TEST RESULTS: OVERSANG

ABBREVIATIONS
 Cond. - Actual Conductivity
 FT BTOC - Feet Below Top of Casing
 NA - Not Applicable
 ORP - Oxidation-Reduction Potential
 SEC - Specific Electrical Conductance
 SU - Standard Units
 Temp - Temperature
 °C - Degrees Celsius

Low-Flow Test Report:

Test Date / Time: 6/14/2023 3:02:50 PM
Project: EDWARDS (2)
Operator Name: LCA

Location Name: APW-01	Estimated Total Volume Pumped: 10500 ml Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min	Instrument Used: Aqua TROLL 600 Serial Number: 978061
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	
6/14/2023 3:02 PM	00:00	6.95 pH	21.84 °C	1,370.6 µS/cm	6.42 mg/L	738.25 NTU	-195.0 mV	250.00 ml/min
6/14/2023 3:05 PM	03:00	6.95 pH	18.42 °C	1,406.4 µS/cm	0.55 mg/L	99.99 NTU	-187.3 mV	250.00 ml/min
6/14/2023 3:08 PM	06:00	6.95 pH	17.69 °C	1,463.2 µS/cm	0.54 mg/L	61.01 NTU	-189.3 mV	250.00 ml/min
6/14/2023 3:11 PM	09:00	6.96 pH	17.34 °C	1,457.0 µS/cm	0.49 mg/L	48.88 NTU	-190.1 mV	250.00 ml/min
6/14/2023 3:14 PM	12:00	6.96 pH	17.35 °C	1,469.5 µS/cm	0.48 mg/L	47.27 NTU	-191.1 mV	250.00 ml/min
6/14/2023 3:17 PM	15:00	6.98 pH	16.67 °C	1,472.7 µS/cm	0.41 mg/L	48.82 NTU	-187.0 mV	250.00 ml/min
6/14/2023 3:20 PM	18:00	6.98 pH	17.21 °C	1,476.7 µS/cm	0.32 mg/L	57.49 NTU	-190.6 mV	250.00 ml/min
6/14/2023 3:23 PM	21:00	7.00 pH	17.48 °C	1,475.0 µS/cm	0.30 mg/L	64.74 NTU	-193.4 mV	250.00 ml/min
6/14/2023 3:26 PM	24:00	7.02 pH	17.27 °C	1,467.4 µS/cm	0.30 mg/L	75.45 NTU	-194.9 mV	250.00 ml/min
6/14/2023 3:29 PM	27:00	7.04 pH	17.06 °C	1,462.6 µS/cm	0.26 mg/L	77.04 NTU	-195.9 mV	250.00 ml/min
6/14/2023 3:32 PM	30:00	7.04 pH	16.81 °C	1,460.8 µS/cm	0.23 mg/L	92.54 NTU	-196.3 mV	250.00 ml/min
6/14/2023 3:35 PM	33:00	7.04 pH	17.08 °C	1,459.6 µS/cm	0.23 mg/L	86.70 NTU	-197.0 mV	250.00 ml/min
6/14/2023 3:38 PM	36:00	7.03 pH	17.58 °C	1,456.3 µS/cm	0.25 mg/L	116.19 NTU	-197.4 mV	250.00 ml/min
6/14/2023 3:41 PM	39:00	7.03 pH	16.75 °C	1,478.1 µS/cm	0.17 mg/L	152.07 NTU	-196.8 mV	250.00 ml/min
6/14/2023 3:44 PM	42:00	7.03 pH	16.92 °C	1,479.2 µS/cm	0.15 mg/L	160.62 NTU	-197.3 mV	250.00 ml/min

Samples

Sample ID:	Description:
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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Edwards pump plant Client: VISTA
 Project Number: _____ Task #: _____ Start Date: 6/15/23 Time: 09:23
 Field Personnel: _____ Finish Date: _____ Time: 10:05

WELL INFORMATION	PURGE INFORMATION
Well ID: <u>AW-20</u>	Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump
Casing ID: _____ Inches	Bailer Type: <u>n/a</u>
Screen Interval: _____ Inches	Pump Type and Serial #: <u>bladder pump</u>
Borehole Diameter: _____	Tube/Pump Intake Depth: <u>~250 m/dm</u>
Filter Pack Interval: _____	Stabilized Pumping Rate: _____

DEPTH MEASUREMENTS			
Depth FT BTOC	Time (24-Hour)	FINAL	
		Depth FT BTOC	Time (24-Hour)
LNAPL	NA	NA	NA
Groundwater	<u>09:23</u>	<u>18.24</u>	<u>10:05</u>
DNAPL	NA	NA	NA
Casing Base	NA	NA	NA

Volume Calculation Type: Well Casing Borehole
 Volume Per Foot: _____ feet
 Standing Water Column: NA Gallons 3 Well Volumes: _____ Gallons
 1 Well Volume: _____ Gallons 40 Well Volumes: _____ Gallons
 5 Well Volumes: _____ Gallons
 Total Volumes Produced: _____ Gallons
 Well Purged Dry? Yes No

Water Level Serial #: _____ Water Quality Probe Type and Serial # _____

WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	<u>09:23</u>	<u>0.0</u>	<u>17.75</u>	<u>0.00</u>	<u>16.70</u>	<u>1,325.8</u>	<u>9.43</u>	<u>7.09</u>	<u>115.46</u>	<u>-146.4</u>	<u>clear</u>
purge	<u>09:29</u>		<u>17.75</u>	<u>0.00</u>	<u>15.67</u>	<u>1,354.3</u>	<u>2.63</u>	<u>6.96</u>	<u>12.42</u>	<u>-166.2</u>	<u>clear</u>
	<u>09:32</u>		<u>17.75</u>	<u>0.00</u>		<u>data in red sink</u>					
	<u>09:35</u>		<u>18.07</u>	<u>0.32</u>							
	<u>09:58</u>		<u>18.07</u>	<u>0.00</u>							
	<u>09:41</u>		<u>18.07</u>	<u>0.00</u>							
	<u>09:44</u>		<u>18.07</u>	<u>0.00</u>							
	<u>09:47</u>		<u>18.07</u>	<u>0.00</u>							

NOTES

005
10:10 → 06/01 00H no more. CAN HOLD TEST RESULTS: 5.845 ppm

ABBREVIATIONS	
Cond - Actual Conductivity	ORP - Oxidation-Reduction Potential
FT BTOC - Feet Below Top of Casing	SEC - Specific Electrical Conductance
NA - Not Applicable	SU - Standard Units
mm - Not Measured	Temp - Temperature
	°C - Degrees Celsius

Low-Flow Test Report:

Test Date / Time: 6/15/2023 9:23:06 AM

Project: EDWARDS (4)

Operator Name: LCA

Location Name: AW-20	Estimated Total Volume Pumped: 10291.667 ml Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min	Instrument Used: Aqua TROLL 600 Serial Number: 978061
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	
6/15/2023 9:23 AM	00:00	7.09 pH	16.90 °C	1,325.8 µS/cm	9.43 mg/L	115.46 NTU	-146.4 mV	250.00 ml/min
6/15/2023 9:26 AM	03:00	6.96 pH	15.99 °C	1,349.5 µS/cm	3.45 mg/L	11.18 NTU	-161.9 mV	250.00 ml/min
6/15/2023 9:29 AM	06:00	6.96 pH	15.67 °C	1,354.3 µS/cm	2.63 mg/L	12.42 NTU	-166.2 mV	250.00 ml/min
6/15/2023 9:32 AM	09:00	6.95 pH	15.78 °C	1,350.8 µS/cm	2.10 mg/L	41.88 NTU	-168.9 mV	250.00 ml/min
6/15/2023 9:35 AM	12:00	6.95 pH	15.66 °C	1,355.4 µS/cm	1.74 mg/L	60.58 NTU	-171.1 mV	250.00 ml/min
6/15/2023 9:38 AM	15:00	6.95 pH	15.61 °C	1,354.0 µS/cm	1.45 mg/L	78.85 NTU	-173.0 mV	250.00 ml/min
6/15/2023 9:41 AM	18:00	6.96 pH	15.71 °C	1,354.6 µS/cm	1.24 mg/L	69.16 NTU	-175.0 mV	250.00 ml/min
6/15/2023 9:44 AM	21:00	6.97 pH	15.59 °C	1,351.9 µS/cm	1.10 mg/L	76.56 NTU	-176.8 mV	250.00 ml/min
6/15/2023 9:49 AM	26:10	7.00 pH	15.95 °C	1,348.7 µS/cm	3.65 mg/L	99.92 NTU	-176.1 mV	250.00 ml/min
6/15/2023 9:52 AM	29:10	7.02 pH	15.73 °C	1,347.7 µS/cm	2.38 mg/L	65.16 NTU	-176.8 mV	250.00 ml/min
6/15/2023 9:55 AM	32:10	7.03 pH	15.72 °C	1,344.6 µS/cm	2.31 mg/L	38.97 NTU	-177.5 mV	250.00 ml/min
6/15/2023 9:58 AM	35:10	7.04 pH	15.87 °C	1,345.2 µS/cm	2.23 mg/L	55.72 NTU	-177.8 mV	250.00 ml/min
6/15/2023 10:01 AM	38:10	7.05 pH	15.87 °C	1,344.4 µS/cm	2.10 mg/L	47.02 NTU	-178.1 mV	250.00 ml/min
6/15/2023 10:04 AM	41:10	7.04 pH	15.98 °C	1,343.6 µS/cm	1.90 mg/L	44.93 NTU	-178.1 mV	250.00 ml/min

Samples

Sample ID:	Description:
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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Edwards power plant Client: VISTA
 Project Number: _____ Start Date: 10/11/23 Time: 12:59
 Field Personnel: UA, KH Finish Date: _____ Time: 13:23

WELL INFORMATION

Well ID: AW-23
 Casing ID: _____ inches
 Screen Interval: _____ inches
 Borehole Diameter: _____ inches
 Filter Pack Interval: _____ inches

EVENT TYPE

Well Development
 Low-Flow / Low-Stress Sampling
 Well Volume Approach Sampling
 Other (Specify below)

PURGE INFORMATION

Purge Method: Bailor Pump
 Bailor Type: n/a
 Pump Type and Serial #: alexis pump
 Tube/Pump Intake Depth: _____
 Stabilized Pumping Rate: ~250

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	<u>5.70</u>	<u>12:59</u>	<u>5.99</u>	<u>13:23</u>
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: Well Casing Borehole
 Volumes Per Foot: _____ feet
 Standing Water Column: NA Gallons
 1 Well Volume: _____ Gallons
 3 Well Volumes: _____ Gallons
 5 Well Volumes: _____ Gallons
 10 Well Volumes: _____ Gallons
 Total Volumes Produced: _____ Gallons
 Well Purged Dry? Yes No

Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Initial	<u>12:59</u>	<u>0.00</u>	<u>5.70</u>	<u>0.00</u>	<u>18.28</u>	<u>1,289.1</u>	<u>5.51</u>	<u>6.96</u>	<u>34.30</u>	<u>154.2</u>	<u>CLEAR</u>
purge	<u>13:05</u>		<u>5.98</u>	<u>0.08</u>	<u>16.73</u>	<u>1,153.9</u>	<u>0.58</u>	<u>6.93</u>	<u>25.03</u>	<u>88.8</u>	<u>CLEAR</u>
	<u>13:08</u>		<u>5.98</u>	<u>0.00</u>							
	<u>13:11</u>		<u>5.98</u>	<u>0.00</u>							
	<u>13:14</u>		<u>5.98</u>	<u>0.00</u>							
	<u>13:17</u>		<u>5.98</u>	<u>0.00</u>							
	<u>13:20</u>	<u>~1.0</u>	<u>5.99</u>	<u>0.01</u>	<u>↓</u>						
	<u>13:23</u>		<u>5.99</u>	<u>0.00</u>	<u>16.19</u>	<u>1,113.0</u>	<u>0.27</u>	<u>6.92</u>	<u>35.30</u>	<u>-32.5</u>	<u>CLEAR</u>

NOTES

001 no odor LEAN FIELD TEST RESULT 0.208 ppm

ABBREVIATIONS
 Cond - Actual Conductivity
 FT BTOC - Feet Below Top of Casing
 NA - Not Applicable
 Temp - Temperature
 °C - Degrees Celsius

Low-Flow Test Report:

Test Date / Time: 6/14/2023 12:59:16 PM

Project: EDWARDS

Operator Name: LCA

Location Name: AW-23	Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min	Instrument Used: Aqua TROLL 600 Serial Number: 978061
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	
6/14/2023 12:59 PM	00:00	6.96 pH	18.28 °C	1,289.1 µS/cm	5.51 mg/L	34.30 NTU	154.2 mV	250.00 ml/min
6/14/2023 1:02 PM	03:00	6.95 pH	16.72 °C	1,261.2 µS/cm	0.75 mg/L	27.01 NTU	142.3 mV	250.00 ml/min
6/14/2023 1:05 PM	06:00	6.93 pH	16.73 °C	1,153.9 µS/cm	0.58 mg/L	25.63 NTU	88.8 mV	250.00 ml/min
6/14/2023 1:08 PM	09:00	6.92 pH	16.51 °C	1,123.0 µS/cm	0.49 mg/L	28.47 NTU	5.3 mV	250.00 ml/min
6/14/2023 1:11 PM	12:00	6.92 pH	16.13 °C	1,119.1 µS/cm	0.36 mg/L	27.47 NTU	-15.6 mV	250.00 ml/min
6/14/2023 1:14 PM	15:00	6.92 pH	15.98 °C	1,116.5 µS/cm	0.35 mg/L	23.74 NTU	-24.7 mV	250.00 ml/min
6/14/2023 1:17 PM	18:00	6.91 pH	16.23 °C	1,119.6 µS/cm	0.32 mg/L	30.80 NTU	-29.2 mV	250.00 ml/min
6/14/2023 1:20 PM	21:00	6.92 pH	16.00 °C	1,111.2 µS/cm	0.29 mg/L	36.95 NTU	-30.8 mV	250.00 ml/min
6/14/2023 1:23 PM	24:00	6.92 pH	16.13 °C	1,113.0 µS/cm	0.27 mg/L	35.30 NTU	-32.5 mV	250.00 ml/min

Samples

Sample ID:	Description:
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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: edwards pump plant Client: visiter Task #: _____ Start Date: 6/15/23 Time: 0723
 Project Number: _____ Finish Date: _____ Time: 0741
 Field Personnel: _____

WELL INFORMATION
 Well ID: EMW-05
 Casing ID: _____ Inches
 Screen Interval: _____ Inches
 Borehole Diameter: _____ Inches
 Filter Pack Interval: _____

EVENT TYPE
 Well Development
 Low-Flow / Low-Stress Sampling
 Well Volume Approach Sampling
 Other (Specify below)

PURGE INFORMATION
 Purge Method: Bailor Pump
 Bailor Type: n/a
 Pump Type and Serial #: bladder
 Tube/Pump Intake Depth: at least pump
 Stabilized Pumping Rate: ~250 ml/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	<u>21.25</u>	<u>0723</u>	<u>28.70</u>	<u>0741</u>
DNAPL	NA			
Casing Base	NA			

Volume Calculation Type: Well Casing Borehole
 Volume Per Foot: _____ feet
 Standing Water Column: NA feet
 1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons
 5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons
 Total Volumes Produced: _____ Gallons
 Well Purged Dry? Yes No

Water Level Serial #: _____ Water Quality Probe Type and Serial # _____

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	<u>0723</u>	<u>0.0</u>	<u>21.25</u>	<u>0.00</u>	<u>14.89</u>	<u>1,347.3</u>	<u>9.61</u>	<u>6.99</u>	<u>109.63</u>	<u>-104.4</u>	<u>clear</u>
purge	<u>0732</u>				<u>13.45</u>	<u>1,346.5</u>	<u>4.06</u>	<u>7.01</u>	<u>31.64</u>	<u>-96.5</u>	<u>clear</u>
	<u>0735</u>						<u>data in vial</u>				
	<u>0738</u>										
	<u>0741</u>	<u>~1.0</u>	<u>28.70</u>	<u>7.45</u>	<u>13.27</u>	<u>1,335.5</u>	<u>3.84</u>	<u>7.01</u>	<u>3.09</u>	<u>-76.6</u>	<u>clear</u>

NOTES
 * well purged dry ~1 HR pumping → returned to collect dissolved + vials after sampling AW-20
 MS/MSDI 003 NO OOB, NEW TEST FIELD RESULTS: 0.354
 LCA 6/15/23

ABBREVIATIONS
 Cond - Actual Conductivity
 FT BTOC - Feet Below Top of Casing
 NA - Not Applicable
 m - Not Measured
 ORP - Oxidation-Reduction Potential
 SEC - Specific Electrical Conductance
 SU - Standard Units
 Temp - Temperature
 °C - Degrees Celsius

Low-Flow Test Report:

Test Date / Time: 6/15/2023 7:23:11 AM
Project: EDWARDS (3)
Operator Name: LCA

Location Name: EMW-05	Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min	Instrument Used: Aqua TROLL 600 Serial Number: 978061
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	
6/15/2023 7:23 AM	00:00	6.99 pH	14.89 °C	1,347.3 µS/cm	9.61 mg/L	169.63 NTU	-104.4 mV	250.00 ml/min
6/15/2023 7:26 AM	03:00	6.99 pH	13.76 °C	1,356.8 µS/cm	4.19 mg/L	85.99 NTU	-109.7 mV	250.00 ml/min
6/15/2023 7:29 AM	06:00	7.01 pH	13.45 °C	1,346.5 µS/cm	4.06 mg/L	31.64 NTU	-96.5 mV	250.00 ml/min
6/15/2023 7:32 AM	09:00	7.02 pH	13.41 °C	1,342.9 µS/cm	3.96 mg/L	10.29 NTU	-88.4 mV	250.00 ml/min
6/15/2023 7:35 AM	12:00	7.01 pH	13.34 °C	1,352.0 µS/cm	3.88 mg/L	7.62 NTU	-78.8 mV	250.00 ml/min
6/15/2023 7:38 AM	15:00	7.00 pH	13.30 °C	1,347.2 µS/cm	3.79 mg/L	5.45 NTU	-77.4 mV	250.00 ml/min
6/15/2023 7:41 AM	18:00	7.01 pH	13.27 °C	1,335.5 µS/cm	3.84 mg/L	3.09 NTU	-76.6 mV	250.00 ml/min

Samples

Sample ID:	Description:
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**ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 2, 2023**

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 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	E001	Antimony, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.003	0.003
AP07S	PMP	E001	Arsenic, total	mg/L	02/10/21 - 06/15/23	10	80	CI around median	0.001	0.0300
AP07S	PMP	E001	Barium, total	mg/L	02/10/21 - 06/15/23	10	0	CI around mean	0.0791	2.07
AP07S	PMP	E001	Beryllium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.001	0.00190
AP07S	PMP	E001	Boron, total	mg/L	02/10/21 - 06/15/23	10	0	CB around linear reg	6.94	0.535
AP07S	PMP	E001	Cadmium, total	mg/L	02/10/21 - 06/15/23	10	90	CI around median	0.001	0.00100
AP07S	PMP	E001	Chloride, total	mg/L	02/10/21 - 06/15/23	10	0	CI around mean	72.5	56.0
AP07S	PMP	E001	Chromium, total	mg/L	02/10/21 - 06/15/23	10	60	CI around median	0.004	0.0480
AP07S	PMP	E001	Cobalt, total	mg/L	02/10/21 - 06/15/23	10	0	CI around mean	0.00228	0.0280
AP07S	PMP	E001	Fluoride, total	mg/L	02/10/21 - 06/15/23	10	70	CB around T-S line	-2.23	0.396
AP07S	PMP	E001	Lead, total	mg/L	02/10/21 - 06/15/23	10	50	CI around median	0.001	0.0330
AP07S	PMP	E001	Lithium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.02	0.0710
AP07S	PMP	E001	Mercury, total	mg/L	02/10/21 - 06/15/23	10	90	CI around median	0.0002	0.0002
AP07S	PMP	E001	Molybdenum, total	mg/L	02/10/21 - 06/15/23	10	50	CI around median	0.001	0.00620
AP07S	PMP	E001	pH (field)	SU	02/10/21 - 06/15/23	10	0	CI around mean	6.5/6.9	6.3/7.1
AP07S	PMP	E001	Radium 226 + Radium 228, total	pCi/L	02/10/21 - 06/15/23	10	0	CI around mean	0.452	9.60
AP07S	PMP	E001	Selenium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.001	0.00320
AP07S	PMP	E001	Sulfate, total	mg/L	02/10/21 - 06/15/23	10	0	CI around median	160	6.48
AP07S	PMP	E001	Thallium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.001	0.001
AP07S	PMP	E001	Total Dissolved Solids	mg/L	02/10/21 - 06/15/23	10	0	CB around linear reg	224	1,050
AW-01	PMP	E001	Antimony, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.003	0.003
AW-01	PMP	E001	Arsenic, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	-0.00267	0.0300
AW-01	PMP	E001	Barium, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	0.0903	2.07
AW-01	PMP	E001	Beryllium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.001	0.00190
AW-01	PMP	E001	Boron, total	mg/L	11/18/22 - 06/14/23	5	0	CI around median (Last Sample, n<7)	0.072	0.535
AW-01	PMP	E001	Cadmium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.001	0.00100
AW-01	PMP	E001	Chloride, total	mg/L	11/18/22 - 06/14/23	5	0	CI around geomean	4.14	56.0

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 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	E001	Chromium, total	mg/L	11/18/22 - 06/14/23	5	80	CI around median (Last Sample, n<7)	0.004	0.0480
AW-01	PMP	E001	Cobalt, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	0.00199	0.0280
AW-01	PMP	E001	Fluoride, total	mg/L	11/18/22 - 06/14/23	5	60	CI around median (Last Sample, n<7)	0.25	0.396
AW-01	PMP	E001	Lead, total	mg/L	11/18/22 - 06/14/23	5	80	CI around median (Last Sample, n<7)	0.001	0.0330
AW-01	PMP	E001	Lithium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.02	0.0710
AW-01	PMP	E001	Mercury, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.0002	0.0002
AW-01	PMP	E001	Molybdenum, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	0.00159	0.00620
AW-01	PMP	E001	pH (field)	SU	11/18/22 - 06/14/23	5	0	CI around mean	6.6/7.3	6.3/7.1
AW-01	PMP	E001	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 06/14/23	5	0	CI around mean	-0.997	9.60
AW-01	PMP	E001	Selenium, total	mg/L	11/18/22 - 06/14/23	5	80	CI around median (Last Sample, n<7)	0.001	0.00320
AW-01	PMP	E001	Sulfate, total	mg/L	11/18/22 - 06/14/23	5	0	CI around median (Last Sample, n<7)	52	6.48
AW-01	PMP	E001	Thallium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.001	0.001
AW-01	PMP	E001	Total Dissolved Solids	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	664	1,050
AW-05	UA	E001	Antimony, total	mg/L	11/09/15 - 06/15/23	14	93	Most recent sample	0.003	0.003
AW-05	UA	E001	Arsenic, total	mg/L	11/09/15 - 06/15/23	14	0	CI around geomean	0.00403	0.0300
AW-05	UA	E001	Barium, total	mg/L	11/09/15 - 06/15/23	14	0	CI around mean	0.144	2.07
AW-05	UA	E001	Beryllium, total	mg/L	11/09/15 - 06/15/23	13	85	CI around median	0.001	0.00190
AW-05	UA	E001	Boron, total	mg/L	11/09/15 - 06/15/23	15	0	CI around geomean	1.88	0.535
AW-05	UA	E001	Cadmium, total	mg/L	11/09/15 - 06/15/23	14	86	CI around median	0.001	0.00100
AW-05	UA	E001	Chloride, total	mg/L	11/09/15 - 06/15/23	15	0	CB around linear reg	-208	56.0
AW-05	UA	E001	Chromium, total	mg/L	11/09/15 - 06/15/23	14	36	CI around geomean	0.00573	0.0480
AW-05	UA	E001	Cobalt, total	mg/L	11/09/15 - 06/15/23	14	21	CI around geomean	0.00336	0.0280
AW-05	UA	E001	Fluoride, total	mg/L	11/09/15 - 06/15/23	15	47	CI around median	0.25	0.396
AW-05	UA	E001	Lead, total	mg/L	11/09/15 - 06/15/23	13	38	CI around geomean	0.00156	0.0330
AW-05	UA	E001	Lithium, total	mg/L	11/09/15 - 06/15/23	14	21	CI around geomean	0.0217	0.0710
AW-05	UA	E001	Mercury, total	mg/L	11/09/15 - 06/15/23	14	100	All ND - Last	0.0002	0.0002
AW-05	UA	E001	Molybdenum, total	mg/L	11/09/15 - 06/15/23	14	0	CI around mean	0.00202	0.00620

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 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-05	UA	E001	pH (field)	SU	11/09/15 - 06/15/23	15	0	CI around mean	6.9/7.1	6.3/7.1
AW-05	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 06/15/23	14	0	CI around mean	0.75	9.60
AW-05	UA	E001	Selenium, total	mg/L	11/09/15 - 06/15/23	14	43	CI around median	0.001	0.00320
AW-05	UA	E001	Sulfate, total	mg/L	11/09/15 - 06/15/23	15	0	CI around mean	283	6.48
AW-05	UA	E001	Thallium, total	mg/L	11/09/15 - 06/15/23	13	100	All ND - Last	0.001	0.001
AW-05	UA	E001	Total Dissolved Solids	mg/L	11/09/15 - 06/15/23	15	0	CI around geomean	1,000	1,050
AW-06	UA	E001	Antimony, total	mg/L	11/10/15 - 06/14/23	15	100	All ND - Last	0.003	0.003
AW-06	UA	E001	Arsenic, total	mg/L	11/10/15 - 06/14/23	20	0	CI around geomean	0.00286	0.0300
AW-06	UA	E001	Barium, total	mg/L	11/10/15 - 06/14/23	20	0	CI around median	0.16	2.07
AW-06	UA	E001	Beryllium, total	mg/L	11/10/15 - 06/14/23	20	85	CI around median	0.001	0.00190
AW-06	UA	E001	Boron, total	mg/L	11/10/15 - 06/14/23	21	0	CB around T-S line	-0.018	0.535
AW-06	UA	E001	Cadmium, total	mg/L	11/10/15 - 06/14/23	15	100	All ND - Last	0.001	0.00100
AW-06	UA	E001	Chloride, total	mg/L	11/10/15 - 06/14/23	21	0	CB around T-S line	1.72	56.0
AW-06	UA	E001	Chromium, total	mg/L	11/10/15 - 06/14/23	20	50	CI around median	0.004	0.0480
AW-06	UA	E001	Cobalt, total	mg/L	11/10/15 - 06/14/23	20	55	CI around median	0.002	0.0280
AW-06	UA	E001	Fluoride, total	mg/L	11/10/15 - 06/14/23	21	10	CI around median	0.319	0.396
AW-06	UA	E001	Lead, total	mg/L	11/10/15 - 06/14/23	20	35	CI around median	0.001	0.0330
AW-06	UA	E001	Lithium, total	mg/L	11/10/15 - 06/14/23	20	40	CI around mean	0.0135	0.0710
AW-06	UA	E001	Mercury, total	mg/L	11/10/15 - 06/14/23	15	93	CI around median	0.0002	0.0002
AW-06	UA	E001	Molybdenum, total	mg/L	11/10/15 - 06/14/23	20	0	CI around mean	0.00474	0.00620
AW-06	UA	E001	pH (field)	SU	11/10/15 - 06/14/23	21	0	CI around median	7.1/7.2	6.3/7.1
AW-06	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 06/14/23	20	0	CI around mean	0.725	9.60
AW-06	UA	E001	Selenium, total	mg/L	11/10/15 - 06/14/23	20	70	CI around median	0.001	0.00320
AW-06	UA	E001	Sulfate, total	mg/L	11/10/15 - 06/14/23	21	0	CB around linear reg	16.8	6.48
AW-06	UA	E001	Thallium, total	mg/L	11/10/15 - 06/14/23	15	100	All ND - Last	0.001	0.001
AW-06	UA	E001	Total Dissolved Solids	mg/L	11/10/15 - 06/14/23	21	0	CI around mean	505	1,050
AW-09	UA	E001	Antimony, total	mg/L	11/10/15 - 06/12/23	15	100	All ND - Last	0.003	0.003

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AW-09	UA	E001	Arsenic, total	mg/L	11/10/15 - 06/12/23	20	15	CI around mean	0.00971	0.0300
AW-09	UA	E001	Barium, total	mg/L	11/10/15 - 06/12/23	20	0	CI around geomean	0.273	2.07
AW-09	UA	E001	Beryllium, total	mg/L	11/10/15 - 06/12/23	20	80	CB around T-S line	-0.00127	0.00190
AW-09	UA	E001	Boron, total	mg/L	11/10/15 - 06/12/23	21	0	CB around linear reg	-0.197	0.535
AW-09	UA	E001	Cadmium, total	mg/L	11/10/15 - 06/12/23	15	87	CI around median	0.001	0.00100
AW-09	UA	E001	Chloride, total	mg/L	11/10/15 - 06/12/23	21	0	CI around median	27	56.0
AW-09	UA	E001	Chromium, total	mg/L	11/10/15 - 06/12/23	20	50	CB around T-S line	-0.0731	0.0480
AW-09	UA	E001	Cobalt, total	mg/L	11/10/15 - 06/12/23	20	5	CB around T-S line	-0.0405	0.0280
AW-09	UA	E001	Fluoride, total	mg/L	11/10/15 - 06/12/23	21	57	CB around T-S line	0.168	0.396
AW-09	UA	E001	Lead, total	mg/L	11/10/15 - 06/12/23	20	45	CI around median	0.001	0.0330
AW-09	UA	E001	Lithium, total	mg/L	11/10/15 - 06/12/23	20	25	CB around T-S line	-0.0899	0.0710
AW-09	UA	E001	Mercury, total	mg/L	11/10/15 - 06/12/23	15	93	CI around median	0.0002	0.0002
AW-09	UA	E001	Molybdenum, total	mg/L	11/10/15 - 06/12/23	20	0	CI around mean	0.0134	0.00620
AW-09	UA	E001	pH (field)	SU	11/10/15 - 06/12/23	21	0	CI around mean	6.8/7.0	6.3/7.1
AW-09	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 06/12/23	20	0	CI around median	0.633	9.60
AW-09	UA	E001	Selenium, total	mg/L	11/10/15 - 06/12/23	20	60	CB around T-S line	-0.00401	0.00320
AW-09	UA	E001	Sulfate, total	mg/L	11/10/15 - 06/12/23	21	48	CB around linear reg	-15.8	6.48
AW-09	UA	E001	Thallium, total	mg/L	11/10/15 - 06/12/23	15	93	CI around median	0.001	0.001
AW-09	UA	E001	Total Dissolved Solids	mg/L	11/10/15 - 06/12/23	21	0	CB around T-S line	712	1,050
AW-10	UA	E001	Antimony, total	mg/L	11/09/15 - 06/13/23	16	100	All ND - Last	0.003	0.003
AW-10	UA	E001	Arsenic, total	mg/L	11/09/15 - 06/13/23	21	0	CI around geomean	0.0076	0.0300
AW-10	UA	E001	Barium, total	mg/L	11/09/15 - 06/13/23	21	0	CI around median	0.98	2.07
AW-10	UA	E001	Beryllium, total	mg/L	11/09/15 - 06/13/23	21	76	CI around median	0.001	0.00190
AW-10	UA	E001	Boron, total	mg/L	11/09/15 - 06/13/23	22	0	CI around mean	0.46	0.535
AW-10	UA	E001	Cadmium, total	mg/L	11/09/15 - 06/13/23	16	94	CI around median	0.001	0.00100
AW-10	UA	E001	Chloride, total	mg/L	11/09/15 - 06/13/23	22	0	CI around mean	87.3	56.0
AW-10	UA	E001	Chromium, total	mg/L	11/09/15 - 06/13/23	21	38	CI around median	0.004	0.0480

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AW-10	UA	E001	Cobalt, total	mg/L	11/09/15 - 06/13/23	21	5	CI around geomean	0.00338	0.0280
AW-10	UA	E001	Fluoride, total	mg/L	11/09/15 - 06/13/23	22	96	CI around median	0.25	0.396
AW-10	UA	E001	Lead, total	mg/L	11/09/15 - 06/13/23	21	14	CI around geomean	0.0017	0.0330
AW-10	UA	E001	Lithium, total	mg/L	11/09/15 - 06/13/23	21	0	CB around T-S line	-0.0329	0.0710
AW-10	UA	E001	Mercury, total	mg/L	11/09/15 - 06/13/23	16	94	CI around median	0.0002	0.0002
AW-10	UA	E001	Molybdenum, total	mg/L	11/09/15 - 06/13/23	21	29	CB around T-S line	-0.000917	0.00620
AW-10	UA	E001	pH (field)	SU	11/09/15 - 06/13/23	23	0	CI around mean	6.9/7.1	6.3/7.1
AW-10	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 06/13/23	21	0	CI around mean	2.18	9.60
AW-10	UA	E001	Selenium, total	mg/L	11/09/15 - 06/13/23	21	62	CI around median	0.001	0.00320
AW-10	UA	E001	Sulfate, total	mg/L	11/09/15 - 06/13/23	22	77	CB around T-S line	0.225	6.48
AW-10	UA	E001	Thallium, total	mg/L	11/09/15 - 06/13/23	16	94	CI around median	0.001	0.001
AW-10	UA	E001	Total Dissolved Solids	mg/L	11/09/15 - 06/13/23	22	0	CI around median	1,100	1,050
AW-11	UA	E001	Antimony, total	mg/L	11/09/15 - 06/13/23	15	100	All ND - Last	0.003	0.003
AW-11	UA	E001	Arsenic, total	mg/L	11/09/15 - 06/13/23	20	0	CI around mean	0.00942	0.0300
AW-11	UA	E001	Barium, total	mg/L	11/09/15 - 06/13/23	20	0	CI around geomean	0.871	2.07
AW-11	UA	E001	Beryllium, total	mg/L	11/09/15 - 06/13/23	20	75	CI around median	0.001	0.00190
AW-11	UA	E001	Boron, total	mg/L	11/09/15 - 06/13/23	21	0	CI around mean	0.219	0.535
AW-11	UA	E001	Cadmium, total	mg/L	11/09/15 - 06/13/23	15	80	CI around median	0.001	0.00100
AW-11	UA	E001	Chloride, total	mg/L	11/09/15 - 06/13/23	21	0	CI around mean	31.1	56.0
AW-11	UA	E001	Chromium, total	mg/L	11/09/15 - 06/13/23	20	45	CB around T-S line	-0.0209	0.0480
AW-11	UA	E001	Cobalt, total	mg/L	11/09/15 - 06/13/23	20	20	CB around T-S line	-0.0103	0.0280
AW-11	UA	E001	Fluoride, total	mg/L	11/09/15 - 06/13/23	21	86	CI around median	0.25	0.396
AW-11	UA	E001	Lead, total	mg/L	11/09/15 - 06/13/23	20	35	CB around T-S line	-0.0148	0.0330
AW-11	UA	E001	Lithium, total	mg/L	11/09/15 - 06/13/23	20	15	CB around T-S line	-0.0269	0.0710
AW-11	UA	E001	Mercury, total	mg/L	11/09/15 - 06/13/23	15	100	All ND - Last	0.0002	0.0002
AW-11	UA	E001	Molybdenum, total	mg/L	11/09/15 - 06/13/23	20	5	CB around linear reg	-0.00162	0.00620
AW-11	UA	E001	pH (field)	SU	11/09/15 - 06/13/23	21	0	CI around median	6.9/7.2	6.3/7.1

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AW-11	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 06/13/23	20	0	CI around mean	1.73	9.60
AW-11	UA	E001	Selenium, total	mg/L	11/09/15 - 06/13/23	20	65	CI around median	0.001	0.00320
AW-11	UA	E001	Sulfate, total	mg/L	11/09/15 - 06/13/23	21	62	CB around T-S line	-0.0244	6.48
AW-11	UA	E001	Thallium, total	mg/L	11/09/15 - 06/13/23	15	100	All ND - Last	0.001	0.001
AW-11	UA	E001	Total Dissolved Solids	mg/L	11/09/15 - 06/13/23	21	0	CB around T-S line	961	1,050
AW-14	UA	E001	Antimony, total	mg/L	02/11/21 - 06/13/23	9	89	CI around median	0.003	0.003
AW-14	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	0.00745	0.0300
AW-14	UA	E001	Barium, total	mg/L	02/11/21 - 06/13/23	9	0	CB around linear reg	0.62	2.07
AW-14	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.001	0.00190
AW-14	UA	E001	Boron, total	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	0.17	0.535
AW-14	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.001	0.00100
AW-14	UA	E001	Chloride, total	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	21.9	56.0
AW-14	UA	E001	Chromium, total	mg/L	02/11/21 - 06/13/23	9	89	CI around median	0.004	0.0480
AW-14	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/13/23	9	0	CB around linear reg	-0.00451	0.0280
AW-14	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/13/23	9	78	CI around median	0.25	0.396
AW-14	UA	E001	Lead, total	mg/L	02/11/21 - 06/13/23	9	67	CI around median	0.001	0.0330
AW-14	UA	E001	Lithium, total	mg/L	02/11/21 - 06/13/23	9	44	CI around mean	0.0189	0.0710
AW-14	UA	E001	Mercury, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.0002	0.0002
AW-14	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/13/23	9	33	CI around geomean	0.00127	0.00620
AW-14	UA	E001	pH (field)	SU	02/11/21 - 06/13/23	9	0	CI around mean	6.8/7.0	6.3/7.1
AW-14	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/13/23	9	0	CI around mean	1.78	9.60
AW-14	UA	E001	Selenium, total	mg/L	02/11/21 - 06/13/23	9	89	CI around median	0.001	0.00320
AW-14	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/13/23	9	22	CI around geomean	1.32	6.48
AW-14	UA	E001	Thallium, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.001	0.001
AW-14	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	893	1,050
AW-15	UA	E001	Antimony, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.003	0.003
AW-15	UA	E001	Arsenic, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	0.00203	0.0300

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AW-15	UA	E001	Barium, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	1.54	2.07
AW-15	UA	E001	Beryllium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.00190
AW-15	UA	E001	Boron, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	0.315	0.535
AW-15	UA	E001	Cadmium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.00100
AW-15	UA	E001	Chloride, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	33	56.0
AW-15	UA	E001	Chromium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.004	0.0480
AW-15	UA	E001	Cobalt, total	mg/L	02/12/21 - 06/12/23	7	86	CI around median	0.002	0.0280
AW-15	UA	E001	Fluoride, total	mg/L	02/12/21 - 06/12/23	7	71	CI around median	0.25	0.396
AW-15	UA	E001	Lead, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.0330
AW-15	UA	E001	Lithium, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	0.0281	0.0710
AW-15	UA	E001	Mercury, total	mg/L	02/12/21 - 06/12/23	7	86	CI around median	0.0002	0.0002
AW-15	UA	E001	Molybdenum, total	mg/L	02/12/21 - 06/12/23	7	71	CI around median	0.001	0.00620
AW-15	UA	E001	pH (field)	SU	02/12/21 - 06/12/23	6	0	CI around mean	6.6/6.9	6.3/7.1
AW-15	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 06/12/23	7	0	CI around mean	2.01	9.60
AW-15	UA	E001	Selenium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.00320
AW-15	UA	E001	Sulfate, total	mg/L	02/12/21 - 06/12/23	7	86	Most recent sample	1	6.48
AW-15	UA	E001	Thallium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.001
AW-15	UA	E001	Total Dissolved Solids	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	827	1,050
AW-15S	PMP	E001	Antimony, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.003	0.003
AW-15S	PMP	E001	Arsenic, total	mg/L	02/12/21 - 06/12/23	10	50	CI around median	0.001	0.0300
AW-15S	PMP	E001	Barium, total	mg/L	02/12/21 - 06/12/23	10	0	CB around T-S line	-0.528	2.07
AW-15S	PMP	E001	Beryllium, total	mg/L	02/12/21 - 06/12/23	10	90	CI around median	0.001	0.00190
AW-15S	PMP	E001	Boron, total	mg/L	02/12/21 - 06/12/23	10	0	CI around mean	5.43	0.535
AW-15S	PMP	E001	Cadmium, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.001	0.00100
AW-15S	PMP	E001	Chloride, total	mg/L	02/12/21 - 06/12/23	10	0	CB around linear reg	18.8	56.0
AW-15S	PMP	E001	Chromium, total	mg/L	02/12/21 - 06/12/23	10	90	CI around median	0.004	0.0480
AW-15S	PMP	E001	Cobalt, total	mg/L	02/12/21 - 06/12/23	10	90	CI around median	0.002	0.0280

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AW-15S	PMP	E001	Fluoride, total	mg/L	02/12/21 - 06/12/23	10	40	CI around median	0.25	0.396
AW-15S	PMP	E001	Lead, total	mg/L	02/12/21 - 06/12/23	10	80	CI around median	0.001	0.0330
AW-15S	PMP	E001	Lithium, total	mg/L	02/12/21 - 06/12/23	10	80	CI around median	0.02	0.0710
AW-15S	PMP	E001	Mercury, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.0002	0.0002
AW-15S	PMP	E001	Molybdenum, total	mg/L	02/12/21 - 06/12/23	10	0	CB around linear reg	0.00181	0.00620
AW-15S	PMP	E001	pH (field)	SU	02/12/21 - 06/12/23	10	0	CB around linear reg	6.3/7.1	6.3/7.1
AW-15S	PMP	E001	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 06/12/23	9	0	CI around mean	0.184	9.60
AW-15S	PMP	E001	Selenium, total	mg/L	02/12/21 - 06/12/23	10	40	CI around mean	0.000931	0.00320
AW-15S	PMP	E001	Sulfate, total	mg/L	02/12/21 - 06/12/23	10	0	CB around linear reg	480	6.48
AW-15S	PMP	E001	Thallium, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.001	0.001
AW-15S	PMP	E001	Total Dissolved Solids	mg/L	02/12/21 - 06/12/23	10	0	CI around mean	1,160	1,050
AW-16	UA	E001	Antimony, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.003	0.003
AW-16	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/12/23	10	10	CB around linear reg	0.000917	0.0300
AW-16	UA	E001	Barium, total	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	1.19	2.07
AW-16	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.00190
AW-16	UA	E001	Boron, total	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	0.472	0.535
AW-16	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.00100
AW-16	UA	E001	Chloride, total	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	49.5	56.0
AW-16	UA	E001	Chromium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.004	0.0480
AW-16	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.002	0.0280
AW-16	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.25	0.396
AW-16	UA	E001	Lead, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.0330
AW-16	UA	E001	Lithium, total	mg/L	02/11/21 - 06/12/23	10	0	CI around median	0.036	0.0710
AW-16	UA	E001	Mercury, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.0002	0.0002
AW-16	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.00620
AW-16	UA	E001	pH (field)	SU	02/11/21 - 06/12/23	10	0	CI around median	6.5/6.8	6.3/7.1
AW-16	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/12/23	10	0	CI around mean	4.02	9.60

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AW-16	UA	E001	Selenium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.00320
AW-16	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/12/23	10	90	CI around median	1	6.48
AW-16	UA	E001	Thallium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.001
AW-16	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	1,030	1,050
AW-17	UA	E001	Antimony, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.003	0.003
AW-17	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.00485	0.0300
AW-17	UA	E001	Barium, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	1.05	2.07
AW-17	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.00190
AW-17	UA	E001	Boron, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.414	0.535
AW-17	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.00100
AW-17	UA	E001	Chloride, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	51.7	56.0
AW-17	UA	E001	Chromium, total	mg/L	02/11/21 - 06/13/23	10	60	CI around median	0.004	0.0480
AW-17	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.00197	0.0280
AW-17	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/13/23	10	90	CI around median	0.25	0.396
AW-17	UA	E001	Lead, total	mg/L	02/11/21 - 06/13/23	10	60	CI around median	0.001	0.0330
AW-17	UA	E001	Lithium, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.0336	0.0710
AW-17	UA	E001	Mercury, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.0002	0.0002
AW-17	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/13/23	10	30	CI around mean	0.00102	0.00620
AW-17	UA	E001	pH (field)	SU	02/11/21 - 06/13/23	10	0	CI around mean	6.6/7.0	6.3/7.1
AW-17	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/13/23	10	0	CI around mean	2.59	9.60
AW-17	UA	E001	Selenium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.00320
AW-17	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	1	6.48
AW-17	UA	E001	Thallium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.001
AW-17	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	797	1,050
AW-18	UA	E001	Antimony, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.003	0.003
AW-18	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.00334	0.0300
AW-18	UA	E001	Barium, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	0.962	2.07

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 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-18	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00190
AW-18	UA	E001	Boron, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.614	0.535
AW-18	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00100
AW-18	UA	E001	Chloride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	70.9	56.0
AW-18	UA	E001	Chromium, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.004	0.0480
AW-18	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/14/23	10	70	CI around median	0.002	0.0280
AW-18	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/14/23	10	40	CI around median	0.25	0.396
AW-18	UA	E001	Lead, total	mg/L	02/11/21 - 06/14/23	10	80	CI around median	0.001	0.0330
AW-18	UA	E001	Lithium, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	-0.0455	0.0710
AW-18	UA	E001	Mercury, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.0002	0.0002
AW-18	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	-0.0197	0.00620
AW-18	UA	E001	pH (field)	SU	02/11/21 - 06/14/23	10	0	CI around mean	6.7/7.0	6.3/7.1
AW-18	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/14/23	10	0	CI around mean	2.08	9.60
AW-18	UA	E001	Selenium, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.001	0.00320
AW-18	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	3.71	6.48
AW-18	UA	E001	Thallium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.001
AW-18	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	770	1,050
AW-19	UA	E001	Antimony, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.003	0.003
AW-19	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.0112	0.0300
AW-19	UA	E001	Barium, total	mg/L	02/11/21 - 06/14/23	10	0	CI around median	0.18	2.07
AW-19	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00190
AW-19	UA	E001	Boron, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	2.47	0.535
AW-19	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00100
AW-19	UA	E001	Chloride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	76.5	56.0
AW-19	UA	E001	Chromium, total	mg/L	02/11/21 - 06/14/23	10	70	CI around median	0.004	0.0480
AW-19	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/14/23	10	70	CI around median	0.002	0.0280
AW-19	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.284	0.396

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
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EDWARDS POWER PLANT
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-19	UA	E001	Lead, total	mg/L	02/11/21 - 06/14/23	10	40	CI around geomean	0.00101	0.0330
AW-19	UA	E001	Lithium, total	mg/L	02/11/21 - 06/14/23	10	60	CI around median	0.02	0.0710
AW-19	UA	E001	Mercury, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.0002	0.0002
AW-19	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/14/23	10	0	CI around geomean	0.00327	0.00620
AW-19	UA	E001	pH (field)	SU	02/11/21 - 06/14/23	10	0	CI around mean	6.8/7.2	6.3/7.1
AW-19	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/14/23	10	0	CI around mean	0.267	9.60
AW-19	UA	E001	Selenium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00320
AW-19	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	43.4	6.48
AW-19	UA	E001	Thallium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.001
AW-19	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	542	1,050
AW-21	UA	E001	Antimony, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.003	0.003
AW-21	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/14/23	10	10	CB around linear reg	0.00113	0.0300
AW-21	UA	E001	Barium, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.0617	2.07
AW-21	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00190
AW-21	UA	E001	Boron, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	10.3	0.535
AW-21	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00100
AW-21	UA	E001	Chloride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around median	93	56.0
AW-21	UA	E001	Chromium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.004	0.0480
AW-21	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.002	0.0280
AW-21	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	0.0598	0.396
AW-21	UA	E001	Lead, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.001	0.0330
AW-21	UA	E001	Lithium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.02	0.0710
AW-21	UA	E001	Mercury, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.0002	0.0002
AW-21	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.0157	0.00620
AW-21	UA	E001	pH (field)	SU	02/11/21 - 06/14/23	10	0	CI around mean	7.0/7.5	6.3/7.1
AW-21	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/14/23	10	0	CI around mean	0.345	9.60
AW-21	UA	E001	Selenium, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.001	0.00320

**ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023**

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ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-21	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/14/23	10	0	CI around median	230	6.48
AW-21	UA	E001	Thallium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.001
AW-21	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	641	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 2, 2023**

**ATTACHMENT D.
SUPPLEMENTAL GROUNDWATER ELEVATION DATA - QUARTER 2, 2023**

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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
APW-01	Supplemental	06/12/2023	6.76	434.31
AW-20	Supplemental	06/12/2023	17.61	443.87
AW-23	Supplemental	06/14/2023	[5.90]	[431.67]
EMW-05	Supplemental	06/12/2023	21.20	436.73
SG-02	Supplemental Water Level	06/15/2023	[2.85]	[431.07]
SG-03	Supplemental Water Level	06/15/2023	[19.09]	[416.90]

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 2, 2023**

ATTACHMENT E.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 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	UCF	E001	Antimony, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.003	0.003
APW-01	UCF	E001	Arsenic, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.00113	0.0300
APW-01	UCF	E001	Barium, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.00882	2.07
APW-01	UCF	E001	Beryllium, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.001	0.00190
APW-01	UCF	E001	Boron, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.406	0.535
APW-01	UCF	E001	Cadmium, total	mg/L	06/17/21 - 06/14/23	4	75	CI around median (Last Sample, n<7)	0.001	0.00100
APW-01	UCF	E001	Chloride, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	78.8	56.0
APW-01	UCF	E001	Chromium, total	mg/L	06/17/21 - 06/14/23	4	25	CI around mean	-0.00291	0.0480
APW-01	UCF	E001	Cobalt, total	mg/L	06/17/21 - 06/14/23	4	25	CI around mean	-0.00237	0.0280
APW-01	UCF	E001	Fluoride, total	mg/L	06/17/21 - 06/14/23	4	50	CI around mean	0.209	0.396
APW-01	UCF	E001	Lead, total	mg/L	06/17/21 - 06/14/23	4	25	CI around mean	-0.00645	0.0330
APW-01	UCF	E001	Lithium, total	mg/L	06/17/21 - 06/14/23	4	50	CI around mean	0.0132	0.0710
APW-01	UCF	E001	Mercury, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.0002	0.0002
APW-01	UCF	E001	Molybdenum, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.000863	0.00620
APW-01	UCF	E001	pH (field)	SU	06/17/21 - 06/14/23	4	0	CI around mean	6.7/7.1	6.3/7.1
APW-01	UCF	E001	Selenium, total	mg/L	06/17/21 - 06/14/23	4	50	CI around mean	0.000538	0.00320
APW-01	UCF	E001	Sulfate, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	271	6.48
APW-01	UCF	E001	Thallium, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.001	0.001
APW-01	UCF	E001	Total Dissolved Solids	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	663	1,050
AW-20	UA	E001	Antimony, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.003	0.003
AW-20	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	0.0111	0.0300
AW-20	UA	E001	Barium, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	0.125	2.07
AW-20	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.00190
AW-20	UA	E001	Boron, total	mg/L	02/11/21 - 06/15/23	6	0	CI around median (Last Sample, n<7)	3.1	0.535
AW-20	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.00100
AW-20	UA	E001	Chloride, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	85.1	56.0
AW-20	UA	E001	Chromium, total	mg/L	02/11/21 - 06/15/23	6	83	CI around median (Last Sample, n<7)	0.004	0.0480

ATTACHMENT E.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
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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	E001	Cobalt, total	mg/L	02/11/21 - 06/15/23	6	50	CI around median (Last Sample, n<7)	0.002	0.0280
AW-20	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/15/23	6	17	CI around mean	0.244	0.396
AW-20	UA	E001	Lead, total	mg/L	02/11/21 - 06/15/23	6	67	CI around median (Last Sample, n<7)	0.0014	0.0330
AW-20	UA	E001	Lithium, total	mg/L	02/11/21 - 06/15/23	6	67	CI around median (Last Sample, n<7)	0.02	0.0710
AW-20	UA	E001	Mercury, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.0002	0.0002
AW-20	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	0.00229	0.00620
AW-20	UA	E001	pH (field)	SU	02/11/21 - 06/15/23	6	0	CI around mean	6.5/7.1	6.3/7.1
AW-20	UA	E001	Selenium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.00320
AW-20	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	36.7	6.48
AW-20	UA	E001	Thallium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.001
AW-20	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	721	1,050
AW-23	UA	E001	Antimony, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.003	0.003
AW-23	UA	E001	Arsenic, total	mg/L	11/21/22 - 06/14/23	4	75	CI around median (Last Sample, n<7)	0.001	0.0300
AW-23	UA	E001	Barium, total	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	0.0233	2.07
AW-23	UA	E001	Beryllium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.00190
AW-23	UA	E001	Boron, total	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	0.416	0.535
AW-23	UA	E001	Cadmium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.00100
AW-23	UA	E001	Chloride, total	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	35.4	56.0
AW-23	UA	E001	Chromium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.004	0.0480
AW-23	UA	E001	Cobalt, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.002	0.0280
AW-23	UA	E001	Fluoride, total	mg/L	11/21/22 - 06/14/23	4	25	CI around mean	0.222	0.396
AW-23	UA	E001	Lead, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.0330
AW-23	UA	E001	Lithium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.02	0.0710
AW-23	UA	E001	Mercury, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.0002	0.0002
AW-23	UA	E001	Molybdenum, total	mg/L	11/21/22 - 06/14/23	4	50	CI around mean	0.000538	0.00620
AW-23	UA	E001	pH (field)	SU	11/21/22 - 06/14/23	4	0	CI around mean	6.5/7.2	6.3/7.1
AW-23	UA	E001	Selenium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.00320

ATTACHMENT E.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
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ASH POND
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-23	UA	E001	Sulfate, total	mg/L	11/21/22 - 06/14/23	4	0	CI around median (Last Sample, n<7)	200	6.48
AW-23	UA	E001	Thallium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.001
AW-23	UA	E001	Total Dissolved Solids	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	686	1,050
EMW-05	UA	E001	Antimony, total	mg/L	11/18/22 - 06/15/23	4	100	All ND - Last	0.003	0.003
EMW-05	UA	E001	Arsenic, total	mg/L	11/18/22 - 06/15/23	4	0	CI around median (Last Sample, n<7)	0.0011	0.0300
EMW-05	UA	E001	Barium, total	mg/L	11/18/22 - 06/15/23	4	0	CI around median (Last Sample, n<7)	0.07	2.07
EMW-05	UA	E001	Beryllium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.001	0.00190
EMW-05	UA	E001	Boron, total	mg/L	11/18/22 - 06/15/23	4	0	CI around mean	0.152	0.535
EMW-05	UA	E001	Cadmium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.001	0.00100
EMW-05	UA	E001	Chloride, total	mg/L	11/18/22 - 06/15/23	4	0	CI around mean	15.4	56.0
EMW-05	UA	E001	Chromium, total	mg/L	11/18/22 - 06/15/23	4	50	CI around median (Last Sample, n<7)	0.004	0.0480
EMW-05	UA	E001	Cobalt, total	mg/L	11/18/22 - 06/15/23	4	25	CI around median (Last Sample, n<7)	0.002	0.0280
EMW-05	UA	E001	Fluoride, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.25	0.396
EMW-05	UA	E001	Lead, total	mg/L	11/18/22 - 06/15/23	4	50	CI around geomean	6.97e-05	0.0330
EMW-05	UA	E001	Lithium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.02	0.0710
EMW-05	UA	E001	Mercury, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.0002	0.0002
EMW-05	UA	E001	Molybdenum, total	mg/L	11/18/22 - 06/15/23	4	0	CI around mean	-3.82e-05	0.00620
EMW-05	UA	E001	pH (field)	SU	12/15/22 - 06/15/23	3	0	Most recent sample	7.0/7.0	6.3/7.1
EMW-05	UA	E001	Selenium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.001	0.00320
EMW-05	UA	E001	Sulfate, total	mg/L	11/18/22 - 06/15/23	4	0	CI around median (Last Sample, n<7)	120	6.48
EMW-05	UA	E001	Thallium, total	mg/L	11/18/22 - 06/15/23	4	100	All ND - Last	0.001	0.001
EMW-05	UA	E001	Total Dissolved Solids	mg/L	11/18/22 - 06/15/23	4	25	CI around median (Last Sample, n<7)	26	1,050

ATTACHMENT E.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 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

UCF = Upper Cahokia Formation

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 geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

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