



Dynegy Midwest Generation, LLC
1500 Eastport Plaza Drive
Collinsville, IL 62234

September 9, 2024

Illinois Environmental Protection Agency
DWPC – Permits MC#15
Attn: Part 845 Coal Combustion Residual Rule Submittal
1021 North Grand Avenue East
Springfield, IL 62794

Re: Vermilion Power Plant New East Ash Pond; IEPA ID # W1838000002-04

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(b)(3)(D), Dynegy Midwest Generation, LLC is submitting groundwater monitoring data for the Quarter 2, 2024 sampling event at the Vermilion Power Plant New East Ash Pond (NEAP), identified by Illinois Environmental Protection Agency (IEPA) ID No. W1838000002-04. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine statistical exceedances of the GWPSs.

The date of this submittal is considered to be the date that exceedances of the GWPSs were detected. This notification of exceedances of the GWPSs in 35 I.A.C. § 845.600 will be placed in the facility's operating record within 30 days as required by 35 I.A.C. § 845.800(d)(16).

A Corrective Measures Assessment (CMA) for the NEAP was initiated on December 31, 2023, completed, and submitted to IEPA on May 29, 2024, in accordance with 35 I.A.C. § 845.660. The CMA was the first step towards developing a Corrective Action Plan which will ultimately select a remedy to address all releases from the NEAP. The selected remedy will meet the performance standards of 35 I.A.C. § 845.670(d) and the Corrective Action Plan will be submitted to the Agency on or before May 29, 2025. Once implemented and completed, the selected remedy will attain the GWPSs.

Sincerely,

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

Enclosures

*Groundwater Monitoring Data and Detected Exceedances, Quarter 2, 2024, New East Ash Pond,
Vermilion Power Plant, Oakwood, Illinois*

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

September 9, 2024

Samples were collected between May 7 to 9, 2024 and June 6, 2024 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on July 11, 2024.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 2, 2024 sampling event. Compliance monitoring well 16B was dry; therefore, groundwater elevation data was not recorded and a groundwater sample was not collected. Compliance monitoring wells 35S and 71S had insufficient water to sample for this sampling event. Compliance monitoring well 71D purged dry during sample collection. Porewater well NED1, located within the boundary of the New East Ash Pond, was flooded and could not be accessed to record groundwater elevation data.

Table 1 is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 2, 2024 sampling event.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan¹ included in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 2, 2024 groundwater monitoring data were evaluated for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

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

As allowed in 35 I.A.C. § 845.650(e), an Alternative Source Demonstration² (ASD) was submitted on December 1, 2023 for the exceedances of the chloride and lithium GWPSs detected at compliance monitoring wells 35D and 70D and the sulfate and total dissolved solids (TDS) GWPSs detected at compliance monitoring well 35D during the Quarter 2, 2023 sampling event. The Illinois Environmental Protection Agency (IEPA) provided a written response on December 28, 2024³ that did not concur with the ASD. The non-concurrence was appealed, and on April 18, 2024, the Illinois Pollution Control Board granted the company's requests to stay the applicability of 35 I.A.C. §§ 845.650(d), 845.660, 845.670, and 845.680 as

¹ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan. New East Ash Pond. Vermilion Power Plant. Oakwood, Illinois.* October 25, 2021.

² Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023. 35 I.A.C. § 845.650(E): *Alternative Source Demonstration, New East Ash Pond, Vermilion Power Plant, Oakwood, IL, IEPA ID: W1838000002-04.* December 1, 2023.

³ Illinois Environmental Protection Agency (IEPA), 2023. *Letter from Michael Summers (IEPA) to Dianna Tickner (Dynergy Midwest Generation, LLC): Re: Vermilion Power Plant New East Ash Pond; W1838000002-4, Alternative Source Demonstration (ASD) Submittal.* December 28, 2023.

they apply to the exceedances of the chloride, lithium, sulfate, and TDS GWPSs detected at compliance monitoring wells 35D and 70D.

A second ASD⁴ was submitted on May 8, 2024 for the exceedance of the chloride GWPS at compliance monitoring well 71D during the Quarter 4, 2023 sampling event. The IEPA provided a written response on June 5, 2024⁵ that did not concur with the ASD.

A third ASD⁶ was submitted on July 24, 2024 for the exceedance of the TDS GWPS at compliance monitoring well 70D during the Quarter 1, 2024 sampling event. The IEPA provided a written response on August 22, 2024⁷ that did not concur with the ASD.

Exceedances of chloride, lithium, sulfate, and TDS were detected during the Quarter 2, 2024 sampling event in the same monitoring wells identified in the December 1, 2023 ASD, the May 8, 2024 ASD, and the July 24, 2024 ASD.

⁴ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2024. 35 I.A.C. § 845.650(E): *Alternative Source Demonstration, New East Ash Pond, Vermilion Power Plant, Oakwood, IL, IEPA ID: W1838000002-04*. May 8, 2024.

⁵ Illinois Environmental Protection Agency (IEPA), 2024. *Letter from Darin LeCrone (IEPA) to Dianna Tickner (Dynegy Midwest Generation, LLC): Re: Vermilion Power Plant New East Ash Pond; W1838000002-4, Alternative Source Demonstration (ASD) Submittal*. June 5, 2024.

⁶ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2024. 35 I.A.C. § 845.650(E): *Alternative Source Demonstration, New East Ash Pond, Vermilion Power Plant, Oakwood, IL, IEPA ID: W1838000002-04*. July 24, 2024.

⁷ Illinois Environmental Protection Agency (IEPA), 2024. *Letter from Darin LeCrone (IEPA) to Dianna Tickner (Dynegy Midwest Generation, LLC): Re: Vermilion Power Plant New East Ash Pond; W1838000002-4, Alternative Source Demonstration (ASD) Submittal*. August 22, 2024.

TABLES

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

FIGURES

Figure 1	Monitoring Well Location Map
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ATTACHMENTS

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

TABLES

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
10	Background	E005	06/06/2024	Antimony, total	0.0013 U	mg/L
10	Background	E005	06/06/2024	Arsenic, total	0.00023 U	mg/L
10	Background	E005	06/06/2024	Barium, total	0.0650	mg/L
10	Background	E005	06/06/2024	Beryllium, total	0.00053 U	mg/L
10	Background	E005	06/06/2024	Boron, total	0.0990 J+	mg/L
10	Background	E005	06/06/2024	Cadmium, total	0.00017 U	mg/L
10	Background	E005	06/06/2024	Calcium, total	190	mg/L
10	Background	E005	06/06/2024	Chloride, total	4.9 J	mg/L
10	Background	E005	06/06/2024	Chromium, total	0.0011 U	mg/L
10	Background	E005	06/06/2024	Cobalt, total	0.0007 J	mg/L
10	Background	E005	06/06/2024	Dissolved Oxygen	7.86	mg/L
10	Background	E005	06/06/2024	Fluoride, total	0.130	mg/L
10	Background	E005	06/06/2024	Lead, total	0.00019 U	mg/L
10	Background	E005	06/06/2024	Lithium, total	0.0200	mg/L
10	Background	E005	06/06/2024	Mercury, total	0.000076 U	mg/L
10	Background	E005	06/06/2024	Molybdenum, total	0.0025 U	mg/L
10	Background	E005	06/06/2024	Oxidation Reduction Potential	274	mV
10	Background	E005	06/06/2024	pH (field)	7.3	SU
10	Background	E005	06/06/2024	Radium 226 + Radium 228, total	0.599	pCi/L
10	Background	E005	06/06/2024	Selenium, total	0.00098 U	mg/L
10	Background	E005	06/06/2024	Specific Conductance @ 25C (field)	1,540	micromhos/cm
10	Background	E005	06/06/2024	Sulfate, total	320	mg/L
10	Background	E005	06/06/2024	Temperature	23.6	degrees C
10	Background	E005	06/06/2024	Thallium, total	0.00057 U	mg/L
10	Background	E005	06/06/2024	Total Dissolved Solids	990	mg/L
10	Background	E005	06/06/2024	Turbidity, field	68.0	NTU
22	Background	E005	05/07/2024	Antimony, total	0.0013 U	mg/L
22	Background	E005	05/07/2024	Arsenic, total	0.00023 U	mg/L
22	Background	E005	05/07/2024	Barium, total	0.0780	mg/L
22	Background	E005	05/07/2024	Beryllium, total	0.00053 U	mg/L
22	Background	E005	05/07/2024	Boron, total	0.400	mg/L
22	Background	E005	05/07/2024	Cadmium, total	0.00017 U	mg/L
22	Background	E005	05/07/2024	Calcium, total	45.0	mg/L
22	Background	E005	05/07/2024	Chloride, total	6.90	mg/L
22	Background	E005	05/07/2024	Chromium, total	0.0011 U	mg/L
22	Background	E005	05/07/2024	Cobalt, total	0.0004 U	mg/L
22	Background	E005	05/07/2024	Dissolved Oxygen	0.950	mg/L
22	Background	E005	05/07/2024	Fluoride, total	0.370	mg/L
22	Background	E005	05/07/2024	Lead, total	0.00019 U	mg/L
22	Background	E005	05/07/2024	Lithium, total	0.0320	mg/L
22	Background	E005	05/07/2024	Mercury, total	0.000076 U	mg/L
22	Background	E005	05/07/2024	Molybdenum, total	0.0025 U	mg/L
22	Background	E005	05/07/2024	Oxidation Reduction Potential	-67.1	mV
22	Background	E005	05/07/2024	pH (field)	7.4	SU
22	Background	E005	05/07/2024	Radium 226 + Radium 228, total	0.89	pCi/L
22	Background	E005	05/07/2024	Selenium, total	0.00098 U	mg/L

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OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
22	Background	E005	05/07/2024	Specific Conductance @ 25C (field)	780	micromhos/cm
22	Background	E005	05/07/2024	Sulfate, total	29.0	mg/L
22	Background	E005	05/07/2024	Temperature	15.2	degrees C
22	Background	E005	05/07/2024	Thallium, total	0.00057 U	mg/L
22	Background	E005	05/07/2024	Total Dissolved Solids	460	mg/L
22	Background	E005	05/07/2024	Turbidity, field	3.21	NTU
16B	Compliance	E005	--	Antimony, total	--	mg/L
16B	Compliance	E005	--	Arsenic, total	--	mg/L
16B	Compliance	E005	--	Barium, total	--	mg/L
16B	Compliance	E005	--	Beryllium, total	--	mg/L
16B	Compliance	E005	--	Boron, total	--	mg/L
16B	Compliance	E005	--	Cadmium, total	--	mg/L
16B	Compliance	E005	--	Calcium, total	--	mg/L
16B	Compliance	E005	--	Chloride, total	--	mg/L
16B	Compliance	E005	--	Chromium, total	--	mg/L
16B	Compliance	E005	--	Cobalt, total	--	mg/L
16B	Compliance	E005	--	Dissolved Oxygen	--	mg/L
16B	Compliance	E005	--	Fluoride, total	--	mg/L
16B	Compliance	E005	--	Lead, total	--	mg/L
16B	Compliance	E005	--	Lithium, total	--	mg/L
16B	Compliance	E005	--	Mercury, total	--	mg/L
16B	Compliance	E005	--	Molybdenum, total	--	mg/L
16B	Compliance	E005	--	Oxidation Reduction Potential	--	mV
16B	Compliance	E005	--	pH (field)	--	SU
16B	Compliance	E005	--	Radium 226 + Radium 228, total	--	pCi/L
16B	Compliance	E005	--	Selenium, total	--	mg/L
16B	Compliance	E005	--	Specific Conductance @ 25C (field)	--	micromhos/cm
16B	Compliance	E005	--	Sulfate, total	--	mg/L
16B	Compliance	E005	--	Temperature	--	degrees C
16B	Compliance	E005	--	Thallium, total	--	mg/L
16B	Compliance	E005	--	Total Dissolved Solids	--	mg/L
16B	Compliance	E005	--	Turbidity, field	--	NTU
16A	Compliance	E005	06/06/2024	Antimony, total	0.0013 U	mg/L
16A	Compliance	E005	06/06/2024	Arsenic, total	0.00280	mg/L
16A	Compliance	E005	06/06/2024	Barium, total	0.350	mg/L
16A	Compliance	E005	06/06/2024	Beryllium, total	0.00053 U	mg/L
16A	Compliance	E005	06/06/2024	Boron, total	0.770 J+	mg/L
16A	Compliance	E005	06/06/2024	Cadmium, total	0.00017 U	mg/L
16A	Compliance	E005	06/06/2024	Calcium, total	46.0	mg/L
16A	Compliance	E005	06/06/2024	Chloride, total	110	mg/L
16A	Compliance	E005	06/06/2024	Chromium, total	0.00650	mg/L
16A	Compliance	E005	06/06/2024	Cobalt, total	0.00300	mg/L
16A	Compliance	E005	06/06/2024	Dissolved Oxygen	4.16	mg/L
16A	Compliance	E005	06/06/2024	Fluoride, total	0.720	mg/L
16A	Compliance	E005	06/06/2024	Lead, total	0.00270	mg/L
16A	Compliance	E005	06/06/2024	Lithium, total	0.0370	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
16A	Compliance	E005	06/06/2024	Mercury, total	0.000076 U	mg/L
16A	Compliance	E005	06/06/2024	Molybdenum, total	0.0025 U	mg/L
16A	Compliance	E005	06/06/2024	Oxidation Reduction Potential	72.0	mV
16A	Compliance	E005	06/06/2024	pH (field)	7.1	SU
16A	Compliance	E005	06/06/2024	Radium 226 + Radium 228, total	0.944	pCi/L
16A	Compliance	E005	06/06/2024	Selenium, total	0.00098 U	mg/L
16A	Compliance	E005	06/06/2024	Specific Conductance @ 25C (field)	398	micromhos/cm
16A	Compliance	E005	06/06/2024	Sulfate, total	37.0	mg/L
16A	Compliance	E005	06/06/2024	Temperature	22.4	degrees C
16A	Compliance	E005	06/06/2024	Thallium, total	0.00057 U	mg/L
16A	Compliance	E005	06/06/2024	Total Dissolved Solids	700	mg/L
16A	Compliance	E005	06/06/2024	Turbidity, field	55.1	NTU
35S	Compliance	E005	--	Antimony, total	--	mg/L
35S	Compliance	E005	--	Arsenic, total	--	mg/L
35S	Compliance	E005	--	Barium, total	--	mg/L
35S	Compliance	E005	--	Beryllium, total	--	mg/L
35S	Compliance	E005	--	Boron, total	--	mg/L
35S	Compliance	E005	--	Cadmium, total	--	mg/L
35S	Compliance	E005	--	Calcium, total	--	mg/L
35S	Compliance	E005	--	Chloride, total	--	mg/L
35S	Compliance	E005	--	Chromium, total	--	mg/L
35S	Compliance	E005	--	Cobalt, total	--	mg/L
35S	Compliance	E005	--	Dissolved Oxygen	--	mg/L
35S	Compliance	E005	--	Fluoride, total	--	mg/L
35S	Compliance	E005	--	Lead, total	--	mg/L
35S	Compliance	E005	--	Lithium, total	--	mg/L
35S	Compliance	E005	--	Mercury, total	--	mg/L
35S	Compliance	E005	--	Molybdenum, total	--	mg/L
35S	Compliance	E005	--	Oxidation Reduction Potential	--	mV
35S	Compliance	E005	--	pH (field)	--	SU
35S	Compliance	E005	--	Radium 226 + Radium 228, total	--	pCi/L
35S	Compliance	E005	--	Selenium, total	--	mg/L
35S	Compliance	E005	--	Specific Conductance @ 25C (field)	--	micromhos/cm
35S	Compliance	E005	--	Sulfate, total	--	mg/L
35S	Compliance	E005	--	Temperature	--	degrees C
35S	Compliance	E005	--	Thallium, total	--	mg/L
35S	Compliance	E005	--	Total Dissolved Solids	--	mg/L
35S	Compliance	E005	--	Turbidity, field	--	NTU
35D	Compliance	E005	06/06/2024	Antimony, total	0.0013 U	mg/L
35D	Compliance	E005	06/06/2024	Arsenic, total	0.00220	mg/L
35D	Compliance	E005	06/06/2024	Barium, total	0.0250	mg/L
35D	Compliance	E005	06/06/2024	Beryllium, total	0.00053 U	mg/L
35D	Compliance	E005	06/06/2024	Boron, total	2.00	mg/L
35D	Compliance	E005	06/06/2024	Cadmium, total	0.00017 U	mg/L
35D	Compliance	E005	06/06/2024	Calcium, total	100	mg/L
35D	Compliance	E005	06/06/2024	Chloride, total	470	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
35D	Compliance	E005	06/06/2024	Chromium, total	0.0011 U	mg/L
35D	Compliance	E005	06/06/2024	Cobalt, total	0.0004 U	mg/L
35D	Compliance	E005	06/06/2024	Dissolved Oxygen	0.970	mg/L
35D	Compliance	E005	06/06/2024	Fluoride, total	0.730	mg/L
35D	Compliance	E005	06/06/2024	Lead, total	0.00031 J	mg/L
35D	Compliance	E005	06/06/2024	Lithium, total	0.160	mg/L
35D	Compliance	E005	06/06/2024	Mercury, total	0.000076 U	mg/L
35D	Compliance	E005	06/06/2024	Molybdenum, total	0.0037 J	mg/L
35D	Compliance	E005	06/06/2024	Oxidation Reduction Potential	112	mV
35D	Compliance	E005	06/06/2024	pH (field)	7.8	SU
35D	Compliance	E005	06/06/2024	Radium 226 + Radium 228, total	0.812	pCi/L
35D	Compliance	E005	06/06/2024	Selenium, total	0.00098 U	mg/L
35D	Compliance	E005	06/06/2024	Specific Conductance @ 25C (field)	4,740	micromhos/cm
35D	Compliance	E005	06/06/2024	Sulfate, total	1,500	mg/L
35D	Compliance	E005	06/06/2024	Temperature	18.8	degrees C
35D	Compliance	E005	06/06/2024	Thallium, total	0.00057 U	mg/L
35D	Compliance	E005	06/06/2024	Total Dissolved Solids	3,500	mg/L
35D	Compliance	E005	06/06/2024	Turbidity, field	3.40	NTU
70S	Compliance	E005	06/06/2024	Antimony, total	0.0013 U	mg/L
70S	Compliance	E005	06/06/2024	Arsenic, total	0.00033 J	mg/L
70S	Compliance	E005	06/06/2024	Barium, total	0.0160	mg/L
70S	Compliance	E005	06/06/2024	Beryllium, total	0.00053 U	mg/L
70S	Compliance	E005	06/06/2024	Boron, total	0.470 J+	mg/L
70S	Compliance	E005	06/06/2024	Cadmium, total	0.00017 U	mg/L
70S	Compliance	E005	06/06/2024	Calcium, total	210	mg/L
70S	Compliance	E005	06/06/2024	Chloride, total	10.0	mg/L
70S	Compliance	E005	06/06/2024	Chromium, total	0.0011 U	mg/L
70S	Compliance	E005	06/06/2024	Cobalt, total	0.0004 U	mg/L
70S	Compliance	E005	06/06/2024	Dissolved Oxygen	2.20	mg/L
70S	Compliance	E005	06/06/2024	Fluoride, total	0.130	mg/L
70S	Compliance	E005	06/06/2024	Lead, total	0.00033 J	mg/L
70S	Compliance	E005	06/06/2024	Lithium, total	0.0150	mg/L
70S	Compliance	E005	06/06/2024	Mercury, total	0.000076 U	mg/L
70S	Compliance	E005	06/06/2024	Molybdenum, total	0.0025 U	mg/L
70S	Compliance	E005	06/06/2024	Oxidation Reduction Potential	442	mV
70S	Compliance	E005	06/06/2024	pH (field)	7.2	SU
70S	Compliance	E005	06/06/2024	Radium 226 + Radium 228, total	1.34	pCi/L
70S	Compliance	E005	06/06/2024	Selenium, total	0.00098 U	mg/L
70S	Compliance	E005	06/06/2024	Specific Conductance @ 25C (field)	1,430	micromhos/cm
70S	Compliance	E005	06/06/2024	Sulfate, total	560	mg/L
70S	Compliance	E005	06/06/2024	Temperature	13.6	degrees C
70S	Compliance	E005	06/06/2024	Thallium, total	0.00057 U	mg/L
70S	Compliance	E005	06/06/2024	Total Dissolved Solids	1,100	mg/L
70S	Compliance	E005	06/06/2024	Turbidity, field	1.10	NTU
70D	Compliance	E005	06/06/2024	Antimony, total	0.0013 U	mg/L
70D	Compliance	E005	06/06/2024	Arsenic, total	0.0007 J	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
70D	Compliance	E005	06/06/2024	Barium, total	0.480	mg/L
70D	Compliance	E005	06/06/2024	Beryllium, total	0.00053 U	mg/L
70D	Compliance	E005	06/06/2024	Boron, total	1.70	mg/L
70D	Compliance	E005	06/06/2024	Cadmium, total	0.00017 U	mg/L
70D	Compliance	E005	06/06/2024	Calcium, total	96.0	mg/L
70D	Compliance	E005	06/06/2024	Chloride, total	890	mg/L
70D	Compliance	E005	06/06/2024	Chromium, total	0.0042 J	mg/L
70D	Compliance	E005	06/06/2024	Cobalt, total	0.00260	mg/L
70D	Compliance	E005	06/06/2024	Dissolved Oxygen	4.40	mg/L
70D	Compliance	E005	06/06/2024	Fluoride, total	0.450	mg/L
70D	Compliance	E005	06/06/2024	Lead, total	0.00230	mg/L
70D	Compliance	E005	06/06/2024	Lithium, total	0.120	mg/L
70D	Compliance	E005	06/06/2024	Mercury, total	0.000076 U	mg/L
70D	Compliance	E005	06/06/2024	Molybdenum, total	0.0025 U	mg/L
70D	Compliance	E005	06/06/2024	Oxidation Reduction Potential	4.84	mV
70D	Compliance	E005	06/06/2024	pH (field)	7.2	SU
70D	Compliance	E005	06/06/2024	Radium 226 + Radium 228, total	1.41	pCi/L
70D	Compliance	E005	06/06/2024	Selenium, total	0.00098 U	mg/L
70D	Compliance	E005	06/06/2024	Specific Conductance @ 25C (field)	2,710	micromhos/cm
70D	Compliance	E005	06/06/2024	Sulfate, total	41.0	mg/L
70D	Compliance	E005	06/06/2024	Temperature	16	degrees C
70D	Compliance	E005	06/06/2024	Thallium, total	0.00057 U	mg/L
70D	Compliance	E005	06/06/2024	Total Dissolved Solids	1,800	mg/L
70D	Compliance	E005	06/06/2024	Turbidity, field	9.70	NTU
71S	Compliance	E005	--	Antimony, total	--	mg/L
71S	Compliance	E005	--	Arsenic, total	--	mg/L
71S	Compliance	E005	--	Barium, total	--	mg/L
71S	Compliance	E005	--	Beryllium, total	--	mg/L
71S	Compliance	E005	--	Boron, total	--	mg/L
71S	Compliance	E005	--	Cadmium, total	--	mg/L
71S	Compliance	E005	--	Calcium, total	--	mg/L
71S	Compliance	E005	--	Chloride, total	--	mg/L
71S	Compliance	E005	--	Chromium, total	--	mg/L
71S	Compliance	E005	--	Cobalt, total	--	mg/L
71S	Compliance	E005	--	Dissolved Oxygen	--	mg/L
71S	Compliance	E005	--	Fluoride, total	--	mg/L
71S	Compliance	E005	--	Lead, total	--	mg/L
71S	Compliance	E005	--	Lithium, total	--	mg/L
71S	Compliance	E005	--	Mercury, total	--	mg/L
71S	Compliance	E005	--	Molybdenum, total	--	mg/L
71S	Compliance	E005	--	Oxidation Reduction Potential	--	mV
71S	Compliance	E005	--	pH (field)	--	SU
71S	Compliance	E005	--	Radium 226 + Radium 228, total	--	pCi/L
71S	Compliance	E005	--	Selenium, total	--	mg/L
71S	Compliance	E005	--	Specific Conductance @ 25C (field)	--	micromhos/cm
71S	Compliance	E005	--	Sulfate, total	--	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
71S	Compliance	E005	--	Temperature	--	degrees C
71S	Compliance	E005	--	Thallium, total	--	mg/L
71S	Compliance	E005	--	Total Dissolved Solids	--	mg/L
71S	Compliance	E005	--	Turbidity, field	--	NTU
71D	Compliance	E005	--	Antimony, total	--	mg/L
71D	Compliance	E005	--	Arsenic, total	--	mg/L
71D	Compliance	E005	--	Barium, total	--	mg/L
71D	Compliance	E005	--	Beryllium, total	--	mg/L
71D	Compliance	E005	--	Boron, total	--	mg/L
71D	Compliance	E005	--	Cadmium, total	--	mg/L
71D	Compliance	E005	--	Calcium, total	--	mg/L
71D	Compliance	E005	--	Chloride, total	--	mg/L
71D	Compliance	E005	--	Chromium, total	--	mg/L
71D	Compliance	E005	--	Cobalt, total	--	mg/L
71D	Compliance	E005	--	Dissolved Oxygen	--	mg/L
71D	Compliance	E005	--	Fluoride, total	--	mg/L
71D	Compliance	E005	--	Lead, total	--	mg/L
71D	Compliance	E005	--	Lithium, total	--	mg/L
71D	Compliance	E005	--	Mercury, total	--	mg/L
71D	Compliance	E005	--	Molybdenum, total	--	mg/L
71D	Compliance	E005	--	Oxidation Reduction Potential	--	mV
71D	Compliance	E005	--	pH (field)	--	SU
71D	Compliance	E005	--	Radium 226 + Radium 228, total	--	pCi/L
71D	Compliance	E005	--	Selenium, total	--	mg/L
71D	Compliance	E005	--	Specific Conductance @ 25C (field)	--	micromhos/cm
71D	Compliance	E005	--	Sulfate, total	--	mg/L
71D	Compliance	E005	--	Temperature	--	degrees C
71D	Compliance	E005	--	Thallium, total	--	mg/L
71D	Compliance	E005	--	Total Dissolved Solids	--	mg/L
71D	Compliance	E005	--	Turbidity, field	--	NTU

Notes:
- = no data available
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, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
16B	UU	E005	Antimony, total	mg/L	--	--	--	--	--	0.006	Standard	--
16B	UU	E005	Arsenic, total	mg/L	--	--	--	--	--	0.010	Standard	--
16B	UU	E005	Barium, total	mg/L	--	--	--	--	--	2.0	Standard	--
16B	UU	E005	Beryllium, total	mg/L	--	--	--	--	--	0.004	Standard	--
16B	UU	E005	Boron, total	mg/L	--	--	--	--	--	2	Standard	--
16B	UU	E005	Cadmium, total	mg/L	--	--	--	--	--	0.005	Standard	--
16B	UU	E005	Chloride, total	mg/L	--	--	--	--	--	200	Standard	--
16B	UU	E005	Chromium, total	mg/L	--	--	--	--	--	0.1	Standard	--
16B	UU	E005	Cobalt, total	mg/L	--	--	--	--	--	0.0900	Background	--
16B	UU	E005	Fluoride, total	mg/L	--	--	--	--	--	4.0	Standard	--
16B	UU	E005	Lead, total	mg/L	--	--	--	--	--	0.0075	Standard	--
16B	UU	E005	Lithium, total	mg/L	--	--	--	--	--	0.04	Standard	--
16B	UU	E005	Mercury, total	mg/L	--	--	--	--	--	0.002	Standard	--
16B	UU	E005	Molybdenum, total	mg/L	--	--	--	--	--	0.1	Standard	--
16B	UU	E005	pH (field)	SU	--	--	--	--	--	6.3/9.0	Background/Standard	--
16B	UU	E005	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00	Background	--
16B	UU	E005	Selenium, total	mg/L	--	--	--	--	--	0.05	Standard	--
16B	UU	E005	Sulfate, total	mg/L	--	--	--	--	--	400	Standard	--
16B	UU	E005	Thallium, total	mg/L	--	--	--	--	--	0.002	Standard	--
16B	UU	E005	Total Dissolved Solids	mg/L	--	--	--	--	--	1,200	Standard	--
16A	BCU	E005	Antimony, total	mg/L	04/01/21 - 06/06/24	12	92	CI around median	0.001	0.006	Standard	No Exceedance
16A	BCU	E005	Arsenic, total	mg/L	04/01/21 - 06/06/24	12	0	CI around geomean	0.00125	0.010	Standard	No Exceedance
16A	BCU	E005	Barium, total	mg/L	04/01/21 - 06/06/24	12	0	CI around mean	0.254	2.0	Standard	No Exceedance
16A	BCU	E005	Beryllium, total	mg/L	04/01/21 - 06/06/24	12	100	All ND - Last	0.001	0.004	Standard	No Exceedance
16A	BCU	E005	Boron, total	mg/L	04/01/21 - 06/06/24	12	0	CI around mean	0.682	2	Standard	No Exceedance
16A	BCU	E005	Cadmium, total	mg/L	04/01/21 - 06/06/24	12	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
16A	BCU	E005	Chloride, total	mg/L	04/01/21 - 06/06/24	12	0	CI around mean	124	200	Standard	No Exceedance

TABLE 2.
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VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
16A	BCU	E005	Chromium, total	mg/L	04/01/21 - 06/06/24	12	83	CB around T-S line	0.0015	0.1	Standard	No Exceedance
16A	BCU	E005	Cobalt, total	mg/L	04/01/21 - 06/06/24	12	83	CI around median	0.001	0.0900	Background	No Exceedance
16A	BCU	E005	Fluoride, total	mg/L	04/01/21 - 06/06/24	12	8	CI around mean	0.669	4.0	Standard	No Exceedance
16A	BCU	E005	Lead, total	mg/L	04/01/21 - 06/06/24	12	83	CI around median	0.0005	0.0075	Standard	No Exceedance
16A	BCU	E005	Lithium, total	mg/L	04/01/21 - 06/06/24	12	0	CB around linear reg	0.0306	0.04	Standard	No Exceedance
16A	BCU	E005	Mercury, total	mg/L	04/01/21 - 06/06/24	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
16A	BCU	E005	Molybdenum, total	mg/L	04/01/21 - 06/06/24	12	100	All ND - Last	0.005	0.1	Standard	No Exceedance
16A	BCU	E005	pH (field)	SU	04/01/21 - 06/06/24	17	0	CI around mean	7.2/7.5	6.3/9.0	Background/Standard	No Exceedance
16A	BCU	E005	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 06/06/24	11	0	CI around mean	0.52	7.00	Background	No Exceedance
16A	BCU	E005	Selenium, total	mg/L	04/01/21 - 06/06/24	12	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
16A	BCU	E005	Sulfate, total	mg/L	04/01/21 - 06/06/24	17	5	CI around mean	14	400	Standard	No Exceedance
16A	BCU	E005	Thallium, total	mg/L	04/01/21 - 06/06/24	12	100	All ND - Last	0.002	0.002	Standard	No Exceedance
16A	BCU	E005	Total Dissolved Solids	mg/L	04/01/21 - 06/06/24	17	0	CI around mean	649	1,200	Standard	No Exceedance
35S	UU	E005	Antimony, total	mg/L	--	--	--	--	--	0.006	Standard	--
35S	UU	E005	Arsenic, total	mg/L	--	--	--	--	--	0.010	Standard	--
35S	UU	E005	Barium, total	mg/L	--	--	--	--	--	2.0	Standard	--
35S	UU	E005	Beryllium, total	mg/L	--	--	--	--	--	0.004	Standard	--
35S	UU	E005	Boron, total	mg/L	--	--	--	--	--	2	Standard	--
35S	UU	E005	Cadmium, total	mg/L	--	--	--	--	--	0.005	Standard	--
35S	UU	E005	Chloride, total	mg/L	--	--	--	--	--	200	Standard	--
35S	UU	E005	Chromium, total	mg/L	--	--	--	--	--	0.1	Standard	--
35S	UU	E005	Cobalt, total	mg/L	--	--	--	--	--	0.0900	Background	--
35S	UU	E005	Fluoride, total	mg/L	--	--	--	--	--	4.0	Standard	--
35S	UU	E005	Lead, total	mg/L	--	--	--	--	--	0.0075	Standard	--
35S	UU	E005	Lithium, total	mg/L	--	--	--	--	--	0.04	Standard	--
35S	UU	E005	Mercury, total	mg/L	--	--	--	--	--	0.002	Standard	--
35S	UU	E005	Molybdenum, total	mg/L	--	--	--	--	--	0.1	Standard	--

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
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NEW EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
35S	UU	E005	pH (field)	SU	--	--	--	--	--	6.3/9.0	Background/Standard	--
35S	UU	E005	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00	Background	--
35S	UU	E005	Selenium, total	mg/L	--	--	--	--	--	0.05	Standard	--
35S	UU	E005	Sulfate, total	mg/L	--	--	--	--	--	400	Standard	--
35S	UU	E005	Thallium, total	mg/L	--	--	--	--	--	0.002	Standard	--
35S	UU	E005	Total Dissolved Solids	mg/L	--	--	--	--	--	1,200	Standard	--
35D	BCU	E005	Antimony, total	mg/L	04/01/21 - 06/06/24	13	77	CI around median	0.001	0.006	Standard	No Exceedance
35D	BCU	E005	Arsenic, total	mg/L	04/01/21 - 06/06/24	13	15	CI around geomean	0.00169	0.010	Standard	No Exceedance
35D	BCU	E005	Barium, total	mg/L	04/01/21 - 06/06/24	13	0	CI around median	0.026	2.0	Standard	No Exceedance
35D	BCU	E005	Beryllium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
35D	BCU	E005	Boron, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	1.67	2	Standard	No Exceedance
35D	BCU	E005	Cadmium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
35D	BCU	E005	Chloride, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	314	200	Standard	Exceedance
35D	BCU	E005	Chromium, total	mg/L	04/01/21 - 06/06/24	13	77	CI around median	0.0015	0.1	Standard	No Exceedance
35D	BCU	E005	Cobalt, total	mg/L	04/01/21 - 06/06/24	13	46	CI around median	0.001	0.0900	Background	No Exceedance
35D	BCU	E005	Fluoride, total	mg/L	04/01/21 - 06/06/24	13	8	CI around mean	0.649	4.0	Standard	No Exceedance
35D	BCU	E005	Lead, total	mg/L	04/01/21 - 06/06/24	13	54	CI around median	0.0005	0.0075	Standard	No Exceedance
35D	BCU	E005	Lithium, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	0.115	0.04	Standard	Exceedance
35D	BCU	E005	Mercury, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
35D	BCU	E005	Molybdenum, total	mg/L	04/01/21 - 06/06/24	13	31	CB around linear reg	-0.00152	0.1	Standard	No Exceedance
35D	BCU	E005	pH (field)	SU	04/01/21 - 06/06/24	17	0	CI around median	7.3/7.7	6.3/9.0	Background/Standard	No Exceedance
35D	BCU	E005	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 06/06/24	12	0	CI around mean	0.382	7.00	Background	No Exceedance
35D	BCU	E005	Selenium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
35D	BCU	E005	Sulfate, total	mg/L	04/01/21 - 06/06/24	18	0	CI around mean	1,120	400	Standard	Exceedance
35D	BCU	E005	Thallium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
35D	BCU	E005	Total Dissolved Solids	mg/L	04/01/21 - 06/06/24	18	0	CI around mean	2,750	1,200	Standard	Exceedance
70S	UU	E005	Antimony, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
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OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
70S	UU	E005	Arsenic, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.001	0.010	Standard	No Exceedance
70S	UU	E005	Barium, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	0.0165	2.0	Standard	No Exceedance
70S	UU	E005	Beryllium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
70S	UU	E005	Boron, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	0.375	2	Standard	No Exceedance
70S	UU	E005	Cadmium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
70S	UU	E005	Chloride, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	12.7	200	Standard	No Exceedance
70S	UU	E005	Chromium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.005	0.1	Standard	No Exceedance
70S	UU	E005	Cobalt, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.001	0.0900	Background	No Exceedance
70S	UU	E005	Fluoride, total	mg/L	04/01/21 - 06/06/24	13	8	CI around median	0.14	4.0	Standard	No Exceedance
70S	UU	E005	Lead, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
70S	UU	E005	Lithium, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	0.0116	0.04	Standard	No Exceedance
70S	UU	E005	Mercury, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
70S	UU	E005	Molybdenum, total	mg/L	04/01/21 - 06/06/24	13	31	CI around median	0.005	0.1	Standard	No Exceedance
70S	UU	E005	pH (field)	SU	04/01/21 - 06/06/24	13	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
70S	UU	E005	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 06/06/24	12	0	CI around mean	0.0788	7.00	Background	No Exceedance
70S	UU	E005	Selenium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
70S	UU	E005	Sulfate, total	mg/L	04/01/21 - 06/06/24	13	0	CB around linear reg	459	400	Standard	Exceedance
70S	UU	E005	Thallium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
70S	UU	E005	Total Dissolved Solids	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	1,210	1,200	Standard	Exceedance
70D	BCU	E005	Antimony, total	mg/L	04/01/21 - 06/06/24	13	85	CI around median	0.001	0.006	Standard	No Exceedance
70D	BCU	E005	Arsenic, total	mg/L	04/01/21 - 06/06/24	13	62	CI around median	0.001	0.010	Standard	No Exceedance
70D	BCU	E005	Barium, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	0.462	2.0	Standard	No Exceedance
70D	BCU	E005	Beryllium, total	mg/L	04/01/21 - 06/06/24	13	77	CI around median	0.001	0.004	Standard	No Exceedance
70D	BCU	E005	Boron, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	1.19	2	Standard	No Exceedance
70D	BCU	E005	Cadmium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
70D	BCU	E005	Chloride, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	539	200	Standard	Exceedance
70D	BCU	E005	Chromium, total	mg/L	04/01/21 - 06/06/24	13	38	CI around geomean	0.00276	0.1	Standard	No Exceedance

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
70D	BCU	E005	Cobalt, total	mg/L	04/01/21 - 06/06/24	13	8	CI around geomean	0.00168	0.0900	Background	No Exceedance
70D	BCU	E005	Fluoride, total	mg/L	04/01/21 - 06/06/24	13	8	CB around linear reg	0.257	4.0	Standard	No Exceedance
70D	BCU	E005	Lead, total	mg/L	04/01/21 - 06/06/24	13	15	CI around geomean	0.00129	0.0075	Standard	No Exceedance
70D	BCU	E005	Lithium, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	0.0791	0.04	Standard	Exceedance
70D	BCU	E005	Mercury, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
70D	BCU	E005	Molybdenum, total	mg/L	04/01/21 - 06/06/24	13	38	CB around linear reg	-0.0184	0.1	Standard	No Exceedance
70D	BCU	E005	pH (field)	SU	04/01/21 - 06/06/24	13	0	CI around mean	6.9/7.2	6.3/9.0	Background/Standard	No Exceedance
70D	BCU	E005	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 06/06/24	12	0	CI around mean	1.02	7.00	Background	No Exceedance
70D	BCU	E005	Selenium, total	mg/L	04/01/21 - 06/06/24	13	85	CI around median	0.001	0.05	Standard	No Exceedance
70D	BCU	E005	Sulfate, total	mg/L	04/01/21 - 06/06/24	13	0	CB around linear reg	39.9	400	Standard	No Exceedance
70D	BCU	E005	Thallium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
70D	BCU	E005	Total Dissolved Solids	mg/L	04/01/21 - 06/06/24	13	0	CB around linear reg	1,350	1,200	Standard	Exceedance
71S	UU	E005	Antimony, total	mg/L	--	--	--	--	--	0.006	Standard	--
71S	UU	E005	Arsenic, total	mg/L	--	--	--	--	--	0.010	Standard	--
71S	UU	E005	Barium, total	mg/L	--	--	--	--	--	2.0	Standard	--
71S	UU	E005	Beryllium, total	mg/L	--	--	--	--	--	0.004	Standard	--
71S	UU	E005	Boron, total	mg/L	--	--	--	--	--	2	Standard	--
71S	UU	E005	Cadmium, total	mg/L	--	--	--	--	--	0.005	Standard	--
71S	UU	E005	Chloride, total	mg/L	--	--	--	--	--	200	Standard	--
71S	UU	E005	Chromium, total	mg/L	--	--	--	--	--	0.1	Standard	--
71S	UU	E005	Cobalt, total	mg/L	--	--	--	--	--	0.0900	Background	--
71S	UU	E005	Fluoride, total	mg/L	--	--	--	--	--	4.0	Standard	--
71S	UU	E005	Lead, total	mg/L	--	--	--	--	--	0.0075	Standard	--
71S	UU	E005	Lithium, total	mg/L	--	--	--	--	--	0.04	Standard	--
71S	UU	E005	Mercury, total	mg/L	--	--	--	--	--	0.002	Standard	--
71S	UU	E005	Molybdenum, total	mg/L	--	--	--	--	--	0.1	Standard	--
71S	UU	E005	pH (field)	SU	--	--	--	--	--	6.3/9.0	Background/Standard	--

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
71S	UU	E005	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00	Background	--
71S	UU	E005	Selenium, total	mg/L	--	--	--	--	--	0.05	Standard	--
71S	UU	E005	Sulfate, total	mg/L	--	--	--	--	--	400	Standard	--
71S	UU	E005	Thallium, total	mg/L	--	--	--	--	--	0.002	Standard	--
71S	UU	E005	Total Dissolved Solids	mg/L	--	--	--	--	--	1,200	Standard	--
71D	BCU	E005	Antimony, total	mg/L	--	--	--	--	--	0.006	Standard	--
71D	BCU	E005	Arsenic, total	mg/L	--	--	--	--	--	0.010	Standard	--
71D	BCU	E005	Barium, total	mg/L	--	--	--	--	--	2.0	Standard	--
71D	BCU	E005	Beryllium, total	mg/L	--	--	--	--	--	0.004	Standard	--
71D	BCU	E005	Boron, total	mg/L	--	--	--	--	--	2	Standard	--
71D	BCU	E005	Cadmium, total	mg/L	--	--	--	--	--	0.005	Standard	--
71D	BCU	E005	Chloride, total	mg/L	--	--	--	--	--	200	Standard	--
71D	BCU	E005	Chromium, total	mg/L	--	--	--	--	--	0.1	Standard	--
71D	BCU	E005	Cobalt, total	mg/L	--	--	--	--	--	0.0900	Background	--
71D	BCU	E005	Fluoride, total	mg/L	--	--	--	--	--	4.0	Standard	--
71D	BCU	E005	Lead, total	mg/L	--	--	--	--	--	0.0075	Standard	--
71D	BCU	E005	Lithium, total	mg/L	--	--	--	--	--	0.04	Standard	--
71D	BCU	E005	Mercury, total	mg/L	--	--	--	--	--	0.002	Standard	--
71D	BCU	E005	Molybdenum, total	mg/L	--	--	--	--	--	0.1	Standard	--
71D	BCU	E005	pH (field)	SU	--	--	--	--	--	6.3/9.0	Background/Standard	--
71D	BCU	E005	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00	Background	--
71D	BCU	E005	Selenium, total	mg/L	--	--	--	--	--	0.05	Standard	--
71D	BCU	E005	Sulfate, total	mg/L	--	--	--	--	--	400	Standard	--
71D	BCU	E005	Thallium, total	mg/L	--	--	--	--	--	0.002	Standard	--
71D	BCU	E005	Total Dissolved Solids	mg/L	--	--	--	--	--	1,200	Standard	--

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

Notes:

- = no data available

Compliance Result:

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

Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic unit:

BCU = Bedrock Confining Unit

UU = Upper Unit

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

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

Statistical Calculation = method used to calculate the statistical result:

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

CB around T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

GWPS = Groundwater Protection Standard

GWPS Source:

Background = background concentration

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

FIGURES



- COMPLIANCE WELL
- BACKGROUND WELL
- SOURCE SAMPLE LOCATION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- PROPERTY BOUNDARY

0 150 300
Feet

MONITORING WELL
LOCATION MAP

NEW EAST ASH POND
VERMILION POWER PLANT
OAKWOOD, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

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

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 2, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
10	Background	05/06/2024	48.16	611.10
16B	Compliance	05/06/2024	Dry	
16A	Compliance	05/06/2024	10.82	569.67
22	Background	05/06/2024	54.51	604.28
35S	Compliance	05/06/2024	12.02	572.90
35D	Compliance	05/06/2024	11.79	572.52
70S	Compliance	05/06/2024	9.08	584.83
70D	Compliance	05/06/2024	36.89	557.80
71S	Compliance	05/06/2024	9.28	570.45
71D	Compliance	05/06/2024	38.22	541.84
NED1	Water Level	05/06/2024	Not Measured	

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

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
133 S 4th, Suite 206
Springfield, Illinois 62701
Generated 08/05/24 15:22:45 Revision 1

JOB DESCRIPTION

VER-24Q2
VER_845_912

JOB NUMBER

500-251785-4

Job Notes

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

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

Authorization



Authorized for release by
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Revision 1

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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-25178-4

Client: Vistra Energy Corp
Project: VER-24Q2

Job ID: 500-250240-4

Eurofins Chicago

Job Narrative 500-250240-4

Receipt

The samples were received on 05/09/24 10:30. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 10 coolers at receipt time were 0.8° C, 1.4° C, 1.8° C, 2.2° C, 2.9° C, 3.4° C, 4.2° C, 4.8° C, 4.9° C and 5.2° C.

Receipt Exceptions

Received the Alkalinity bottles for samples 3, 6, 11, & 19 stating "Filter" on them. Per field sampler, bottles were field filtered. Lab instructed not to use this container, as total alkalinity was requested. VER_005 (500-250240-3), VER_016A (500-250240-6), VER_035&D (500-250240-11) and VER_042 (500-250240-19)

Received the TDS, Alk & FI bottle empty for sample 5 and only received the total metals bottle for sample 23. VER_010 (500-250240-5) and VER_071&D (500-250240-23)

Received 2 RAD bottles for sample VER_010 which we already received on 5/9/24. Received 8MS bottles with time of 1105, logged per COC. Received 8MSD bottles with time of 1130, logged per COC. Received 19MS/MSD bottles with time of 1055, logged per COC. Shouldn't be receiving MS/MSD samples taken on different dates compared to the original sample. Received bottles for sample 25 with time of 1000, logged per COC. Received 5 bottles for sample 27, COC has 4. Received 1 bottle for sample 36, COC has 2. VER_021 (500-250240-8[MS]), VER_021 (500-250240-8[MSD]), VER_042 (500-250240-19[MS]), VER_042 (500-250240-19[MSD]), VER_003R_FD (500-250240-25), VER_017 (500-250240-27) and VER_017 (500-250240-36)

Results not reported for the following wells due to an error with the field sampling equipment, resulting in unusable field pH and dissolved oxygen. Wells will be resampled: VER_003R, 005, 008R, 010, 016A, 020, 035&D, 021, 042, 070#S, 070&D, 071#S, 071&D, 101&

Metals

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

General Chemistry

Method 300.0: The method blank for analytical batch 500-769555 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

Eurofins Chicago

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4

Client: Vistra Energy Corp
Project: VER-24Q2

Job ID: 500-251785-4

Eurofins Chicago

Job Narrative 500-251785-4

Revision

The report being provided is a revision of the original report sent on 07/11/24. The report (revision 1) is being revised due to: Client reviewed data and is requesting revision to report as comparison to historical results indicate that the bottle for sample wells VER_70#S and VER_70&D were switched in the field. Laboratory sample receiving confirms the laboratory sample ID labels on the bottles matched the associated client ID as recorded in the login.

Receipt

The samples were received on 06/07/24 09:45. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 2.5° C, 3.5° C, 3.7° C, 4.2° C and 5.0° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Samples #9 and #10 not checked off for any analysis, logged per pervious practice.

The Chain-of-Custody (COC) was incomplete as received. The sampler only signed in the "Sampler Name and Signature" field for each page, including the relinquished date and time when signing. The "Relinquished By" fields were not signed and dated.

Metals

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

General Chemistry

Method SM 2320B: The method blank for analytical batch 500-772979 contained Alkalinity above the reporting limit (RL). Associated sample(s) were not re-analyzed because results were greater than 10X the value found in the method blank.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 500-772471 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_022

Lab Sample ID: 500-250240-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.032		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.078	B	0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.40	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	45		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	25		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.4		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	110		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	6.9		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	29		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	420		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	460		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.37		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.52				ft	1		Field Sampling	Total/NA
Field pH	7.36				SU	1		Field Sampling	Total/NA
Field Temperature	15.2				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-67.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.95				mg/L	1		Field Sampling	Total/NA
Specific Conductance	780				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.21				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_FB

Lab Sample ID: 500-250240-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.038	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Sodium	0.077	J B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Bicarbonate Alkalinity as CaCO3	3.9	J	5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: VER_EB1

Lab Sample ID: 500-250240-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.031	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	0.053	J	0.20	0.044	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	10		10	4.3	mg/L	1		SM 2540C	Total/NA

Client Sample ID: VER_EB2

Lab Sample ID: 500-250240-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.021	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Sodium	0.077	J B	0.20	0.077	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_EB3

Lab Sample ID: 500-250240-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0011	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Lead	0.00022	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	0.19	J	1.0	0.12	mg/L	1		300.0	Total/NA
Total Dissolved Solids	14		10	4.3	mg/L	1		SM 2540C	Total/NA

Client Sample ID: VER_035#S

Lab Sample ID: 500-250240-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	12.02				ft	1		Field Sampling	Total/NA

Client Sample ID: VER_010

Lab Sample ID: 500-251785-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.020		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.065		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.099	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	190		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00070	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	110		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	1.6		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	10		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	4.9	J	10	1.2	mg/L	10		300.0	Total/NA
Sulfate	320		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	560		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	990		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.13		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	48.92				ft	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Temperature	23.61				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	274				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.86				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1540				umhos/cm	1		Field Sampling	Total/NA
Turbidity	68.0				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_016A

Lab Sample ID: 500-251785-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.037		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0028		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.35		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.77	B	0.050	0.013	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_016A (Continued)

Lab Sample ID: 500-251785-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	46		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0065		0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0030		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.0027		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	28		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	3.9		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	200		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	110		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	37		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	400		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	700		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.72		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	12.93				ft	1		Field Sampling	Total/NA
Field pH	7.12				SU	1		Field Sampling	Total/NA
Field Temperature	22.41				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	72				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.16				mg/L	1		Field Sampling	Total/NA
Specific Conductance	398				umhos/cm	1		Field Sampling	Total/NA
Turbidity	55.1				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_EB1

Lab Sample ID: 500-251785-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.10	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Sodium	0.49		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	0.21	J	1.0	0.12	mg/L	1		300.0	Total/NA

Client Sample ID: VER_FB

Lab Sample ID: 500-251785-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.082	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Sodium	0.50		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	0.22	J	1.0	0.12	mg/L	1		300.0	Total/NA
Total Dissolved Solids	6.0	J	10	4.3	mg/L	1		SM 2540C	Total/NA

Client Sample ID: VER_035&D

Lab Sample ID: 500-251785-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.16		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0022		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.025		0.0025	0.00073	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP

Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_035&D (Continued)

Lab Sample ID: 500-251785-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2.0	B	0.25	0.064	mg/L	5		6020B	Total Recoverable
Calcium	100		0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00031	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	86		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0037	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	8.6		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	1000		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	470		50	5.8	mg/L	50		300.0	Total/NA
Sulfate	1500		50	10	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	650		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3500		17	7.2	mg/L	1		SM 2540C	Total/NA
Fluoride	0.73		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	12.52				ft	1		Field Sampling	Total/NA
Field pH	7.77				SU	1		Field Sampling	Total/NA
Field Temperature	18.78				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	112				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.97				mg/L	1		Field Sampling	Total/NA
Specific Conductance	4740				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.4				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_070&D

Lab Sample ID: 500-251785-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.12		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00070	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.48		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.7	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	96		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0042	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0026		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.0023		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	54		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	7.5		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	590		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	890		20	2.3	mg/L	20		300.0	Total/NA
Sulfate	41		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	540		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1800		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_070&D (Continued)

Lab Sample ID: 500-251785-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.45		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	43.5				ft	1		Field Sampling	Total/NA
Field pH	7.24				SU	1		Field Sampling	Total/NA
Field Temperature	15.99				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	4.84				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.40				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2710				umhos/cm	1		Field Sampling	Total/NA
Turbidity	9.7				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_070#S

Lab Sample ID: 500-251785-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.015		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total
Arsenic	0.00033	J	0.0010	0.00023	mg/L	1		6020B	Recoverable Total
Barium	0.016		0.0025	0.00073	mg/L	1		6020B	Recoverable Total
Boron	0.47	B	0.050	0.013	mg/L	1		6020B	Recoverable Total
Calcium	210		0.20	0.044	mg/L	1		6020B	Recoverable Total
Lead	0.00033	J	0.00050	0.00019	mg/L	1		6020B	Recoverable Total
Magnesium	82		0.20	0.049	mg/L	1		6020B	Recoverable Total
Potassium	1.7		0.50	0.11	mg/L	1		6020B	Recoverable Total
Sodium	17		0.20	0.077	mg/L	1		6020B	Recoverable Total
Chloride	10		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	560		20	4.1	mg/L	20		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	270		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1100		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.13		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	11.85				ft	1		Field Sampling	Total/NA
Field pH	7.20				SU	1		Field Sampling	Total/NA
Field Temperature	13.61				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	442				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.20				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1430				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.1				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_71#S

Lab Sample ID: 500-251785-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	10.68				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 F C	Fluoride	SM	EET CHI
Field Sampling	Field Sampling	EPA	EET CHI
200.7	Preparation, Total Recoverable Metals	EPA	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-250240-9	VER_022	Water	05/07/24 15:25	05/09/24 10:30
500-250240-32	VER_FB	Water	05/09/24 15:30	05/10/24 11:00
500-250240-33	VER_EB1	Water	05/09/24 15:40	05/10/24 11:00
500-250240-34	VER_EB2	Water	05/09/24 15:50	05/10/24 11:00
500-250240-35	VER_EB3	Water	05/09/24 16:00	05/10/24 11:00
500-250240-37	VER_035#S	Water	05/06/24 13:05	05/09/24 10:30
500-251785-5	VER_010	Water	06/06/24 17:00	06/07/24 09:45
500-251785-6	VER_016A	Water	06/06/24 12:10	06/07/24 09:45
500-251785-9	VER_EB1	Water	06/06/24 18:00	06/07/24 09:45
500-251785-10	VER_FB	Water	06/06/24 18:10	06/07/24 09:45
500-251785-11	VER_035&D	Water	06/06/24 11:55	06/07/24 09:45
500-251785-13	VER_070&D	Water	06/06/24 09:55	06/07/24 09:45
500-251785-14	VER_070#S	Water	06/06/24 10:40	06/07/24 09:45
500-251785-16	VER_71#S	Water	06/06/24 09:35	06/07/24 09:45

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_022

Lab Sample ID: 500-250240-9

Date Collected: 05/07/24 15:25

Matrix: Water

Date Received: 05/09/24 10:30

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.032		0.0050	0.0020	mg/L		05/17/24 09:33	05/20/24 13:57	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		05/22/24 09:30	05/23/24 12:43	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		05/22/24 09:30	05/23/24 12:43	1
Barium	0.078	B	0.0025	0.00073	mg/L		05/22/24 09:30	05/23/24 12:43	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/22/24 09:30	05/23/24 12:43	1
Boron	0.40	B	0.050	0.013	mg/L		05/22/24 09:30	05/23/24 12:43	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/22/24 09:30	05/23/24 12:43	1
Calcium	45		0.20	0.044	mg/L		05/22/24 09:30	05/23/24 12:43	1
Chromium	<0.0050		0.0050	0.0011	mg/L		05/22/24 09:30	05/23/24 12:43	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		05/22/24 09:30	05/23/24 12:43	1
Lead	<0.00050		0.00050	0.00019	mg/L		05/22/24 09:30	05/23/24 12:43	1
Magnesium	25		0.20	0.049	mg/L		05/22/24 09:30	05/23/24 12:43	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		05/22/24 09:30	05/23/24 12:43	1
Potassium	2.4		0.50	0.11	mg/L		05/22/24 09:30	05/23/24 12:43	1
Selenium	<0.0025		0.0025	0.00098	mg/L		05/22/24 09:30	05/23/24 12:43	1
Sodium	110		0.20	0.077	mg/L		05/22/24 09:30	05/23/24 12:43	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/22/24 09:30	05/23/24 12:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		05/17/24 11:25	05/20/24 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	6.9		1.0	0.12	mg/L			05/23/24 21:28	1
Sulfate (EPA 300.0)	29		1.0	0.21	mg/L			05/23/24 21:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	420		5.0	3.7	mg/L			05/21/24 21:02	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			05/21/24 21:02	1
Total Dissolved Solids (SM 2540C)	460		10	4.3	mg/L			05/10/24 02:26	1
Fluoride (SM 4500 F C)	0.37		0.10	0.056	mg/L			05/28/24 23:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	54.52				ft			05/07/24 15:25	1
Field pH	7.36				SU			05/07/24 15:25	1
Field Temperature	15.2				Degrees C			05/07/24 15:25	1
Oxidation Reduction Potential	-67.1				millivolts			05/07/24 15:25	1
Oxygen, Dissolved	0.95				mg/L			05/07/24 15:25	1
Specific Conductance	780				umhos/cm			05/07/24 15:25	1
Turbidity	3.21				NTU			05/07/24 15:25	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_FB

Lab Sample ID: 500-250240-32

Date Collected: 05/09/24 15:30

Matrix: Water

Date Received: 05/10/24 11:00

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		05/23/24 10:40	05/24/24 14:58	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		05/22/24 09:30	05/23/24 15:50	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		05/22/24 09:30	05/23/24 15:50	1
Barium	<0.0025		0.0025	0.00073	mg/L		05/22/24 09:30	05/23/24 15:50	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/22/24 09:30	05/23/24 15:50	1
Boron	0.038	J B	0.050	0.013	mg/L		05/22/24 09:30	05/23/24 15:50	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/22/24 09:30	05/23/24 15:50	1
Calcium	<0.20		0.20	0.044	mg/L		05/22/24 09:30	05/23/24 15:50	1
Chromium	<0.0050		0.0050	0.0011	mg/L		05/22/24 09:30	05/23/24 15:50	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		05/22/24 09:30	05/23/24 15:50	1
Lead	<0.00050		0.00050	0.00019	mg/L		05/22/24 09:30	05/23/24 15:50	1
Magnesium	<0.20		0.20	0.049	mg/L		05/22/24 09:30	05/23/24 15:50	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		05/22/24 09:30	05/23/24 15:50	1
Potassium	<0.50		0.50	0.11	mg/L		05/22/24 09:30	05/23/24 15:50	1
Selenium	<0.0025		0.0025	0.00098	mg/L		05/22/24 09:30	05/23/24 15:50	1
Sodium	0.077	J B	0.20	0.077	mg/L		05/22/24 09:30	05/23/24 15:50	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/22/24 09:30	05/23/24 15:50	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		05/20/24 11:35	05/21/24 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	<1.0		1.0	0.12	mg/L			05/24/24 10:38	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			05/24/24 10:38	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	3.9	J	5.0	3.7	mg/L			05/22/24 22:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			05/22/24 22:44	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			05/15/24 00:05	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			05/30/24 20:45	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_EB1

Lab Sample ID: 500-250240-33

Date Collected: 05/09/24 15:40

Matrix: Water

Date Received: 05/10/24 11:00

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		05/23/24 10:40	05/24/24 15:02	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		05/22/24 09:30	05/23/24 15:55	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		05/22/24 09:30	05/23/24 15:55	1
Barium	<0.0025		0.0025	0.00073	mg/L		05/22/24 09:30	05/23/24 15:55	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/22/24 09:30	05/23/24 15:55	1
Boron	0.031	J B	0.050	0.013	mg/L		05/22/24 09:30	05/23/24 15:55	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/22/24 09:30	05/23/24 15:55	1
Calcium	0.053	J	0.20	0.044	mg/L		05/22/24 09:30	05/23/24 15:55	1
Chromium	<0.0050		0.0050	0.0011	mg/L		05/22/24 09:30	05/23/24 15:55	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		05/22/24 09:30	05/23/24 15:55	1
Lead	<0.00050		0.00050	0.00019	mg/L		05/22/24 09:30	05/23/24 15:55	1
Magnesium	<0.20		0.20	0.049	mg/L		05/22/24 09:30	05/23/24 15:55	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		05/22/24 09:30	05/23/24 15:55	1
Potassium	<0.50		0.50	0.11	mg/L		05/22/24 09:30	05/23/24 15:55	1
Selenium	<0.0025		0.0025	0.00098	mg/L		05/22/24 09:30	05/23/24 15:55	1
Sodium	<0.20		0.20	0.077	mg/L		05/22/24 09:30	05/23/24 15:55	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/22/24 09:30	05/23/24 15:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		05/20/24 11:35	05/21/24 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	<1.0		1.0	0.12	mg/L			05/24/24 10:53	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			05/24/24 10:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			05/22/24 22:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			05/22/24 22:49	1
Total Dissolved Solids (SM 2540C)	10		10	4.3	mg/L			05/15/24 00:08	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			05/30/24 20:49	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_EB2

Lab Sample ID: 500-250240-34

Date Collected: 05/09/24 15:50

Matrix: Water

Date Received: 05/10/24 11:00

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		05/23/24 10:40	05/24/24 15:05	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		05/22/24 09:30	05/23/24 16:06	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		05/22/24 09:30	05/23/24 16:06	1
Barium	<0.0025		0.0025	0.00073	mg/L		05/22/24 09:30	05/23/24 16:06	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/22/24 09:30	05/23/24 16:06	1
Boron	0.021	J B	0.050	0.013	mg/L		05/22/24 09:30	05/23/24 16:06	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/22/24 09:30	05/23/24 16:06	1
Calcium	<0.20		0.20	0.044	mg/L		05/22/24 09:30	05/23/24 16:06	1
Chromium	<0.0050		0.0050	0.0011	mg/L		05/22/24 09:30	05/23/24 16:06	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		05/22/24 09:30	05/23/24 16:06	1
Lead	<0.00050		0.00050	0.00019	mg/L		05/22/24 09:30	05/23/24 16:06	1
Magnesium	<0.20		0.20	0.049	mg/L		05/22/24 09:30	05/23/24 16:06	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		05/22/24 09:30	05/23/24 16:06	1
Potassium	<0.50		0.50	0.11	mg/L		05/22/24 09:30	05/23/24 16:06	1
Selenium	<0.0025		0.0025	0.00098	mg/L		05/22/24 09:30	05/23/24 16:06	1
Sodium	0.077	J B	0.20	0.077	mg/L		05/22/24 09:30	05/23/24 16:06	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/22/24 09:30	05/23/24 16:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		05/20/24 11:35	05/21/24 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	<1.0		1.0	0.12	mg/L			05/24/24 11:08	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			05/24/24 11:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			05/22/24 22:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			05/22/24 22:52	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			05/15/24 00:10	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			05/30/24 21:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_EB3

Lab Sample ID: 500-250240-35

Date Collected: 05/09/24 16:00

Matrix: Water

Date Received: 05/10/24 11:00

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		05/23/24 10:40	05/24/24 15:09	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		05/23/24 08:47	05/23/24 17:10	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		05/23/24 08:47	05/23/24 17:10	1
Barium	<0.0025		0.0025	0.00073	mg/L		05/23/24 08:47	05/23/24 17:10	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/23/24 08:47	05/23/24 17:10	1
Boron	<0.050		0.050	0.013	mg/L		05/23/24 08:47	05/24/24 13:40	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/23/24 08:47	05/23/24 17:10	1
Calcium	<0.20		0.20	0.044	mg/L		05/23/24 08:47	05/24/24 12:29	1
Chromium	0.0011	J	0.0050	0.0011	mg/L		05/23/24 08:47	05/23/24 17:10	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		05/23/24 08:47	05/23/24 17:10	1
Lead	0.00022	J	0.00050	0.00019	mg/L		05/23/24 08:47	05/23/24 17:10	1
Magnesium	<0.20		0.20	0.049	mg/L		05/23/24 08:47	05/23/24 17:10	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		05/23/24 08:47	05/23/24 17:10	1
Potassium	<0.50		0.50	0.11	mg/L		05/23/24 08:47	05/23/24 17:10	1
Selenium	<0.0025		0.0025	0.00098	mg/L		05/23/24 08:47	05/23/24 17:10	1
Sodium	<0.20		0.20	0.077	mg/L		05/23/24 08:47	05/24/24 12:29	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/23/24 08:47	05/23/24 17:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		05/20/24 11:35	05/21/24 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	0.19	J	1.0	0.12	mg/L			05/18/24 23:14	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			05/18/24 23:14	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			05/22/24 22:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			05/22/24 22:58	1
Total Dissolved Solids (SM 2540C)	14		10	4.3	mg/L			05/15/24 00:13	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			05/30/24 21:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_035#S

Lab Sample ID: 500-250240-37

Date Collected: 05/06/24 13:05

Matrix: Water

Date Received: 05/09/24 10:30

Method: EPA Field Sampling - Field Sampling									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	12.02				ft			05/06/24 13:05	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_010

Lab Sample ID: 500-251785-5

Date Collected: 06/06/24 17:00

Matrix: Water

Date Received: 06/07/24 09:45

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.020		0.0050	0.0020	mg/L		06/14/24 10:00	06/18/24 14:31	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/14/24 10:00	06/19/24 17:01	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		06/14/24 10:00	06/19/24 17:01	1
Barium	0.065		0.0025	0.00073	mg/L		06/14/24 10:00	06/19/24 17:01	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		06/14/24 10:00	06/19/24 17:01	1
Boron	0.099	B	0.050	0.013	mg/L		06/14/24 10:00	06/21/24 10:53	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/14/24 10:00	06/19/24 17:01	1
Calcium	190		0.20	0.044	mg/L		06/14/24 10:00	06/19/24 17:01	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/14/24 10:00	06/19/24 17:01	1
Cobalt	0.00070	J	0.0010	0.00040	mg/L		06/14/24 10:00	06/19/24 17:01	1
Lead	<0.00050		0.00050	0.00019	mg/L		06/14/24 10:00	06/19/24 17:01	1
Magnesium	110		0.20	0.049	mg/L		06/14/24 10:00	06/19/24 17:01	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		06/14/24 10:00	06/19/24 17:01	1
Potassium	1.6		0.50	0.11	mg/L		06/14/24 10:00	06/19/24 17:01	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/14/24 10:00	06/19/24 17:01	1
Sodium	10		0.20	0.077	mg/L		06/14/24 10:00	06/19/24 17:01	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/14/24 10:00	06/19/24 17:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/17/24 18:00	06/18/24 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	4.9	J	10	1.2	mg/L			06/13/24 18:51	10
Sulfate (EPA 300.0)	320		10	2.1	mg/L			06/13/24 18:51	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	560		5.0	3.7	mg/L			06/19/24 17:43	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/19/24 17:43	1
Total Dissolved Solids (SM 2540C)	990		10	4.3	mg/L			06/09/24 22:12	1
Fluoride (SM 4500 F C)	0.13		0.10	0.056	mg/L			06/21/24 12:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	48.92				ft			06/06/24 17:00	1
Field pH	7.33				SU			06/06/24 17:00	1
Field Temperature	23.61				Degrees C			06/06/24 17:00	1
Oxidation Reduction Potential	274				millivolts			06/06/24 17:00	1
Oxygen, Dissolved	7.86				mg/L			06/06/24 17:00	1
Specific Conductance	1540				umhos/cm			06/06/24 17:00	1
Turbidity	68.0				NTU			06/06/24 17:00	1

Eurofins Chicago

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_016A

Lab Sample ID: 500-251785-6

Date Collected: 06/06/24 12:10

Matrix: Water

Date Received: 06/07/24 09:45

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.037		0.0050	0.0020	mg/L		06/14/24 10:00	06/18/24 14:35	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/14/24 10:00	06/19/24 17:03	1
Arsenic	0.0028		0.0010	0.00023	mg/L		06/14/24 10:00	06/19/24 17:03	1
Barium	0.35		0.0025	0.00073	mg/L		06/14/24 10:00	06/19/24 17:03	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		06/14/24 10:00	06/19/24 17:03	1
Boron	0.77	B	0.050	0.013	mg/L		06/14/24 10:00	06/21/24 10:55	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/14/24 10:00	06/19/24 17:03	1
Calcium	46		0.20	0.044	mg/L		06/14/24 10:00	06/19/24 17:03	1
Chromium	0.0065		0.0050	0.0011	mg/L		06/14/24 10:00	06/19/24 17:03	1
Cobalt	0.0030		0.0010	0.00040	mg/L		06/14/24 10:00	06/19/24 17:03	1
Lead	0.0027		0.00050	0.00019	mg/L		06/14/24 10:00	06/19/24 17:03	1
Magnesium	28		0.20	0.049	mg/L		06/14/24 10:00	06/19/24 17:03	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		06/14/24 10:00	06/19/24 17:03	1
Potassium	3.9		0.50	0.11	mg/L		06/14/24 10:00	06/19/24 17:03	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/14/24 10:00	06/19/24 17:03	1
Sodium	200		0.20	0.077	mg/L		06/14/24 10:00	06/19/24 17:03	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/14/24 10:00	06/19/24 17:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/17/24 18:00	06/18/24 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	110		10	1.2	mg/L			06/15/24 15:14	10
Sulfate (EPA 300.0)	37		1.0	0.21	mg/L			06/13/24 19:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	400		5.0	3.7	mg/L			06/19/24 17:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/19/24 17:53	1
Total Dissolved Solids (SM 2540C)	700		10	4.3	mg/L			06/09/24 22:15	1
Fluoride (SM 4500 F C)	0.72		0.10	0.056	mg/L			06/21/24 12:39	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	12.93				ft			06/06/24 12:10	1
Field pH	7.12				SU			06/06/24 12:10	1
Field Temperature	22.41				Degrees C			06/06/24 12:10	1
Oxidation Reduction Potential	72				millivolts			06/06/24 12:10	1
Oxygen, Dissolved	4.16				mg/L			06/06/24 12:10	1
Specific Conductance	398				umhos/cm			06/06/24 12:10	1
Turbidity	55.1				NTU			06/06/24 12:10	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_EB1

Lab Sample ID: 500-251785-9

Date Collected: 06/06/24 18:00

Matrix: Water

Date Received: 06/07/24 09:45

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		06/14/24 10:00	06/18/24 15:08	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/14/24 10:00	06/19/24 17:22	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		06/14/24 10:00	06/19/24 17:22	1
Barium	<0.0025		0.0025	0.00073	mg/L		06/14/24 10:00	06/19/24 17:22	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		06/14/24 10:00	06/19/24 17:22	1
Boron	0.10	B	0.050	0.013	mg/L		06/14/24 10:00	06/21/24 12:10	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/14/24 10:00	06/19/24 17:22	1
Calcium	<0.20		0.20	0.044	mg/L		06/14/24 10:00	06/19/24 17:22	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/14/24 10:00	06/19/24 17:22	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		06/14/24 10:00	06/19/24 17:22	1
Lead	<0.00050		0.00050	0.00019	mg/L		06/14/24 10:00	06/19/24 17:22	1
Magnesium	<0.20		0.20	0.049	mg/L		06/14/24 10:00	06/19/24 17:22	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		06/14/24 10:00	06/19/24 17:22	1
Potassium	<0.50		0.50	0.11	mg/L		06/14/24 10:00	06/19/24 17:22	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/14/24 10:00	06/19/24 17:22	1
Sodium	0.49		0.20	0.077	mg/L		06/14/24 10:00	06/19/24 17:22	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/14/24 10:00	06/19/24 17:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/17/24 18:00	06/18/24 08:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	0.21	J	1.0	0.12	mg/L			06/13/24 21:58	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			06/13/24 21:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/19/24 18:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/19/24 18:26	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			06/10/24 20:49	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			06/21/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_FB

Lab Sample ID: 500-251785-10

Date Collected: 06/06/24 18:10

Matrix: Water

Date Received: 06/07/24 09:45

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		06/14/24 10:00	06/18/24 15:12	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/14/24 10:00	06/19/24 17:24	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		06/14/24 10:00	06/19/24 17:24	1
Barium	<0.0025		0.0025	0.00073	mg/L		06/14/24 10:00	06/19/24 17:24	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		06/14/24 10:00	06/19/24 17:24	1
Boron	0.082	B	0.050	0.013	mg/L		06/14/24 10:00	06/21/24 12:12	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/14/24 10:00	06/19/24 17:24	1
Calcium	<0.20		0.20	0.044	mg/L		06/14/24 10:00	06/19/24 17:24	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/14/24 10:00	06/19/24 17:24	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		06/14/24 10:00	06/19/24 17:24	1
Lead	<0.00050		0.00050	0.00019	mg/L		06/14/24 10:00	06/19/24 17:24	1
Magnesium	<0.20		0.20	0.049	mg/L		06/14/24 10:00	06/19/24 17:24	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		06/14/24 10:00	06/19/24 17:24	1
Potassium	<0.50		0.50	0.11	mg/L		06/14/24 10:00	06/19/24 17:24	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/14/24 10:00	06/19/24 17:24	1
Sodium	0.50		0.20	0.077	mg/L		06/14/24 10:00	06/19/24 17:24	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/14/24 10:00	06/19/24 17:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/17/24 18:00	06/18/24 08:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	0.22	J	1.0	0.12	mg/L			06/13/24 22:14	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			06/13/24 22:14	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/19/24 18:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/19/24 18:29	1
Total Dissolved Solids (SM 2540C)	6.0	J	10	4.3	mg/L			06/10/24 20:52	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			06/21/24 12:57	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_035&D

Lab Sample ID: 500-251785-11

Date Collected: 06/06/24 11:55

Matrix: Water

Date Received: 06/07/24 09:45

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.16		0.0050	0.0020	mg/L		06/14/24 10:00	06/18/24 15:17	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/14/24 10:00	06/19/24 17:26	1
Arsenic	0.0022		0.0010	0.00023	mg/L		06/14/24 10:00	06/19/24 17:26	1
Barium	0.025		0.0025	0.00073	mg/L		06/14/24 10:00	06/19/24 17:26	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		06/14/24 10:00	06/19/24 17:26	1
Boron	2.0	B	0.25	0.064	mg/L		06/14/24 10:00	06/21/24 12:17	5
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/14/24 10:00	06/19/24 17:26	1
Calcium	100		0.20	0.044	mg/L		06/14/24 10:00	06/19/24 17:26	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/14/24 10:00	06/19/24 17:26	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		06/14/24 10:00	06/19/24 17:26	1
Lead	0.00031	J	0.00050	0.00019	mg/L		06/14/24 10:00	06/19/24 17:26	1
Magnesium	86		0.20	0.049	mg/L		06/14/24 10:00	06/19/24 17:26	1
Molybdenum	0.0037	J	0.0050	0.0025	mg/L		06/14/24 10:00	06/19/24 17:26	1
Potassium	8.6		0.50	0.11	mg/L		06/14/24 10:00	06/19/24 17:26	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/14/24 10:00	06/19/24 17:26	1
Sodium	1000		0.20	0.077	mg/L		06/14/24 10:00	06/19/24 17:26	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/14/24 10:00	06/19/24 17:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/17/24 18:00	06/18/24 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	470		50	5.8	mg/L			06/13/24 22:30	50
Sulfate (EPA 300.0)	1500		50	10	mg/L			06/13/24 22:30	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	650		5.0	3.7	mg/L			06/19/24 18:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/19/24 18:33	1
Total Dissolved Solids (SM 2540C)	3500		17	7.2	mg/L			06/10/24 20:55	1
Fluoride (SM 4500 F C)	0.73		0.10	0.056	mg/L			06/21/24 13:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	12.52				ft			06/06/24 11:55	1
Field pH	7.77				SU			06/06/24 11:55	1
Field Temperature	18.78				Degrees C			06/06/24 11:55	1
Oxidation Reduction Potential	112				millivolts			06/06/24 11:55	1
Oxygen, Dissolved	0.97				mg/L			06/06/24 11:55	1
Specific Conductance	4740				umhos/cm			06/06/24 11:55	1
Turbidity	3.4				NTU			06/06/24 11:55	1

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Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_070&D

Lab Sample ID: 500-251785-13

Date Collected: 06/06/24 09:55

Matrix: Water

Date Received: 06/07/24 09:45

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.12		0.0050	0.0020	mg/L		06/14/24 10:00	06/18/24 15:38	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/14/24 10:00	06/19/24 17:42	1
Arsenic	0.00070	J	0.0010	0.00023	mg/L		06/14/24 10:00	06/19/24 17:42	1
Barium	0.48		0.0025	0.00073	mg/L		06/14/24 10:00	06/19/24 17:42	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		06/14/24 10:00	06/19/24 17:42	1
Boron	1.7	B	0.050	0.013	mg/L		06/14/24 10:00	06/21/24 12:38	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/14/24 10:00	06/19/24 17:42	1
Calcium	96		0.20	0.044	mg/L		06/14/24 10:00	06/19/24 17:42	1
Chromium	0.0042	J	0.0050	0.0011	mg/L		06/14/24 10:00	06/19/24 17:42	1
Cobalt	0.0026		0.0010	0.00040	mg/L		06/14/24 10:00	06/19/24 17:42	1
Lead	0.0023		0.00050	0.00019	mg/L		06/14/24 10:00	06/19/24 17:42	1
Magnesium	54		0.20	0.049	mg/L		06/14/24 10:00	06/19/24 17:42	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		06/14/24 10:00	06/19/24 17:42	1
Potassium	7.5		0.50	0.11	mg/L		06/14/24 10:00	06/19/24 17:42	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/14/24 10:00	06/19/24 17:42	1
Sodium	590		0.20	0.077	mg/L		06/14/24 10:00	06/19/24 17:42	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/14/24 10:00	06/19/24 17:42	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/17/24 18:00	06/18/24 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	890		20	2.3	mg/L			06/14/24 01:37	20
Sulfate (EPA 300.0)	41		1.0	0.21	mg/L			06/14/24 01:22	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	540		5.0	3.7	mg/L			06/19/24 18:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/19/24 18:53	1
Total Dissolved Solids (SM 2540C)	1800		10	4.3	mg/L			06/10/24 21:05	1
Fluoride (SM 4500 F C)	0.45		0.10	0.056	mg/L			06/21/24 13:06	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	43.5				ft			06/06/24 09:55	1
Field pH	7.24				SU			06/06/24 09:55	1
Field Temperature	15.99				Degrees C			06/06/24 09:55	1
Oxidation Reduction Potential	4.84				millivolts			06/06/24 09:55	1
Oxygen, Dissolved	4.40				mg/L			06/06/24 09:55	1
Specific Conductance	2710				umhos/cm			06/06/24 09:55	1
Turbidity	9.7				NTU			06/06/24 09:55	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_070#S

Lab Sample ID: 500-251785-14

Date Collected: 06/06/24 10:40

Matrix: Water

Date Received: 06/07/24 09:45

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.015		0.0050	0.0020	mg/L		06/14/24 10:00	06/18/24 15:50	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/14/24 10:00	06/19/24 17:45	1
Arsenic	0.00033	J	0.0010	0.00023	mg/L		06/14/24 10:00	06/19/24 17:45	1
Barium	0.016		0.0025	0.00073	mg/L		06/14/24 10:00	06/19/24 17:45	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		06/14/24 10:00	06/19/24 17:45	1
Boron	0.47	B	0.050	0.013	mg/L		06/14/24 10:00	06/21/24 12:40	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/14/24 10:00	06/19/24 17:45	1
Calcium	210		0.20	0.044	mg/L		06/14/24 10:00	06/19/24 17:45	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/14/24 10:00	06/19/24 17:45	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		06/14/24 10:00	06/19/24 17:45	1
Lead	0.00033	J	0.00050	0.00019	mg/L		06/14/24 10:00	06/19/24 17:45	1
Magnesium	82		0.20	0.049	mg/L		06/14/24 10:00	06/19/24 17:45	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		06/14/24 10:00	06/19/24 17:45	1
Potassium	1.7		0.50	0.11	mg/L		06/14/24 10:00	06/19/24 17:45	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/14/24 10:00	06/19/24 17:45	1
Sodium	17		0.20	0.077	mg/L		06/14/24 10:00	06/19/24 17:45	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/14/24 10:00	06/19/24 17:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/17/24 18:00	06/18/24 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	10		1.0	0.12	mg/L			06/14/24 01:53	1
Sulfate (EPA 300.0)	560		20	4.1	mg/L			06/14/24 02:09	20
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	270		5.0	3.7	mg/L			06/19/24 19:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/19/24 19:04	1
Total Dissolved Solids (SM 2540C)	1100		10	4.3	mg/L			06/10/24 21:10	1
Fluoride (SM 4500 F C)	0.13		0.10	0.056	mg/L			06/21/24 13:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	11.85				ft			06/06/24 10:40	1
Field pH	7.20				SU			06/06/24 10:40	1
Field Temperature	13.61				Degrees C			06/06/24 10:40	1
Oxidation Reduction Potential	442				millivolts			06/06/24 10:40	1
Oxygen, Dissolved	2.20				mg/L			06/06/24 10:40	1
Specific Conductance	1430				umhos/cm			06/06/24 10:40	1
Turbidity	1.1				NTU			06/06/24 10:40	1

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Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client Sample ID: VER_71#S Lab Sample ID: 500-251785-16
Date Collected: 06/06/24 09:35 Matrix: Water
Date Received: 06/07/24 09:45

Method: EPA Field Sampling - Field Sampling									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	10.68				ft			06/06/24 09:35	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
Job Ref: 45912
SDG: VER_845_912

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Metals

Prep Batch: 768461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-9	VER_022	Total Recoverable	Water	200.7	
MB 500-768461/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-768461/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 768486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-9	VER_022	Total/NA	Water	7470A	
MB 500-768486/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-768486/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 768718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-32	VER_FB	Total/NA	Water	7470A	
500-250240-33	VER_EB1	Total/NA	Water	7470A	
500-250240-34	VER_EB2	Total/NA	Water	7470A	
500-250240-35	VER_EB3	Total/NA	Water	7470A	
MB 500-768718/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-768718/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 768726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-9	VER_022	Total/NA	Water	7470A	768486
MB 500-768486/12-A	Method Blank	Total/NA	Water	7470A	768486
LCS 500-768486/13-A	Lab Control Sample	Total/NA	Water	7470A	768486

Analysis Batch: 768845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-9	VER_022	Total Recoverable	Water	200.7 Rev 4.4	768461
MB 500-768461/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	768461
LCS 500-768461/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	768461

Analysis Batch: 768920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-32	VER_FB	Total/NA	Water	7470A	768718
500-250240-33	VER_EB1	Total/NA	Water	7470A	768718
500-250240-34	VER_EB2	Total/NA	Water	7470A	768718
500-250240-35	VER_EB3	Total/NA	Water	7470A	768718
MB 500-768718/12-A	Method Blank	Total/NA	Water	7470A	768718
LCS 500-768718/13-A	Lab Control Sample	Total/NA	Water	7470A	768718

Prep Batch: 769084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-9	VER_022	Total Recoverable	Water	3005A	
MB 500-769084/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-769084/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 769085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-32	VER_FB	Total Recoverable	Water	3005A	
500-250240-33	VER_EB1	Total Recoverable	Water	3005A	
500-250240-34	VER_EB2	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Metals (Continued)

Prep Batch: 769085 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-769085/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-769085/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 769270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-35	VER_EB3	Total Recoverable	Water	3005A	
MB 500-769270/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-769270/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 769315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-32	VER_FB	Total Recoverable	Water	200.7	
500-250240-33	VER_EB1	Total Recoverable	Water	200.7	
500-250240-34	VER_EB2	Total Recoverable	Water	200.7	
500-250240-35	VER_EB3	Total Recoverable	Water	200.7	
MB 500-769315/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-769315/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 769360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-9	VER_022	Total Recoverable	Water	6020B	769084
MB 500-769084/1-A	Method Blank	Total Recoverable	Water	6020B	769084
LCS 500-769084/2-A	Lab Control Sample	Total Recoverable	Water	6020B	769084

Analysis Batch: 769505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-32	VER_FB	Total Recoverable	Water	6020B	769085
500-250240-33	VER_EB1	Total Recoverable	Water	6020B	769085
500-250240-34	VER_EB2	Total Recoverable	Water	6020B	769085
500-250240-35	VER_EB3	Total Recoverable	Water	6020B	769270
MB 500-769085/1-A	Method Blank	Total Recoverable	Water	6020B	769085
MB 500-769270/1-A	Method Blank	Total Recoverable	Water	6020B	769270
LCS 500-769085/2-A	Lab Control Sample	Total Recoverable	Water	6020B	769085
LCS 500-769270/2-A	Lab Control Sample	Total Recoverable	Water	6020B	769270

Analysis Batch: 769566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-35	VER_EB3	Total Recoverable	Water	6020B	769270
500-250240-35	VER_EB3	Total Recoverable	Water	6020B	769270
MB 500-769270/1-A	Method Blank	Total Recoverable	Water	6020B	769270
LCS 500-769085/2-A	Lab Control Sample	Total Recoverable	Water	6020B	769085
LCS 500-769270/2-A	Lab Control Sample	Total Recoverable	Water	6020B	769270

Analysis Batch: 769760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-32	VER_FB	Total Recoverable	Water	200.7 Rev 4.4	769315
500-250240-33	VER_EB1	Total Recoverable	Water	200.7 Rev 4.4	769315
500-250240-34	VER_EB2	Total Recoverable	Water	200.7 Rev 4.4	769315
500-250240-35	VER_EB3	Total Recoverable	Water	200.7 Rev 4.4	769315
MB 500-769315/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	769315
LCS 500-769315/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	769315

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Metals

Prep Batch: 772668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-5	VER_010	Total Recoverable	Water	3005A	
500-251785-6	VER_016A	Total Recoverable	Water	3005A	
500-251785-9	VER_EB1	Total Recoverable	Water	3005A	
500-251785-10	VER_FB	Total Recoverable	Water	3005A	
500-251785-11	VER_035&D	Total Recoverable	Water	3005A	
500-251785-13	VER_070&D	Total Recoverable	Water	3005A	
500-251785-14	VER_070#S	Total Recoverable	Water	3005A	
MB 500-772668/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-772668/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 772671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-5	VER_010	Total Recoverable	Water	200.7	
500-251785-6	VER_016A	Total Recoverable	Water	200.7	
500-251785-9	VER_EB1	Total Recoverable	Water	200.7	
500-251785-10	VER_FB	Total Recoverable	Water	200.7	
500-251785-11	VER_035&D	Total Recoverable	Water	200.7	
500-251785-13	VER_070&D	Total Recoverable	Water	200.7	
500-251785-14	VER_070#S	Total Recoverable	Water	200.7	
MB 500-772671/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-772671/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 772904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-5	VER_010	Total/NA	Water	7470A	
500-251785-6	VER_016A	Total/NA	Water	7470A	
500-251785-9	VER_EB1	Total/NA	Water	7470A	
500-251785-10	VER_FB	Total/NA	Water	7470A	
500-251785-11	VER_035&D	Total/NA	Water	7470A	
500-251785-13	VER_070&D	Total/NA	Water	7470A	
500-251785-14	VER_070#S	Total/NA	Water	7470A	
MB 500-772904/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-772904/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 773036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-5	VER_010	Total/NA	Water	7470A	772904
500-251785-6	VER_016A	Total/NA	Water	7470A	772904
500-251785-9	VER_EB1	Total/NA	Water	7470A	772904
500-251785-10	VER_FB	Total/NA	Water	7470A	772904
500-251785-11	VER_035&D	Total/NA	Water	7470A	772904
500-251785-13	VER_070&D	Total/NA	Water	7470A	772904
500-251785-14	VER_070#S	Total/NA	Water	7470A	772904
MB 500-772904/12-A	Method Blank	Total/NA	Water	7470A	772904
LCS 500-772904/13-A	Lab Control Sample	Total/NA	Water	7470A	772904

Analysis Batch: 773200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-5	VER_010	Total Recoverable	Water	200.7 Rev 4.4	772671
500-251785-6	VER_016A	Total Recoverable	Water	200.7 Rev 4.4	772671
500-251785-9	VER_EB1	Total Recoverable	Water	200.7 Rev 4.4	772671

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Metals (Continued)

Analysis Batch: 773200 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-10	VER_FB	Total Recoverable	Water	200.7 Rev 4.4	772671
500-251785-11	VER_035&D	Total Recoverable	Water	200.7 Rev 4.4	772671
500-251785-13	VER_070&D	Total Recoverable	Water	200.7 Rev 4.4	772671
500-251785-14	VER_070#S	Total Recoverable	Water	200.7 Rev 4.4	772671
MB 500-772671/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	772671
LCS 500-772671/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	772671

Analysis Batch: 773422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-5	VER_010	Total Recoverable	Water	6020B	772668
500-251785-6	VER_016A	Total Recoverable	Water	6020B	772668
500-251785-9	VER_EB1	Total Recoverable	Water	6020B	772668
500-251785-10	VER_FB	Total Recoverable	Water	6020B	772668
500-251785-11	VER_035&D	Total Recoverable	Water	6020B	772668
500-251785-13	VER_070&D	Total Recoverable	Water	6020B	772668
500-251785-14	VER_070#S	Total Recoverable	Water	6020B	772668
MB 500-772668/1-A	Method Blank	Total Recoverable	Water	6020B	772668
LCS 500-772668/2-A	Lab Control Sample	Total Recoverable	Water	6020B	772668

Analysis Batch: 773696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-5	VER_010	Total Recoverable	Water	6020B	772668
500-251785-6	VER_016A	Total Recoverable	Water	6020B	772668
500-251785-9	VER_EB1	Total Recoverable	Water	6020B	772668
500-251785-10	VER_FB	Total Recoverable	Water	6020B	772668
500-251785-11	VER_035&D	Total Recoverable	Water	6020B	772668
500-251785-13	VER_070&D	Total Recoverable	Water	6020B	772668
500-251785-14	VER_070#S	Total Recoverable	Water	6020B	772668
MB 500-772668/1-A	Method Blank	Total Recoverable	Water	6020B	772668
LCS 500-772668/2-A	Lab Control Sample	Total Recoverable	Water	6020B	772668

General Chemistry

Analysis Batch: 767316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-9	VER_022	Total/NA	Water	SM 2540C	
MB 500-767316/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-767316/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 767933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-32	VER_FB	Total/NA	Water	SM 2540C	
500-250240-33	VER_EB1	Total/NA	Water	SM 2540C	
500-250240-34	VER_EB2	Total/NA	Water	SM 2540C	
500-250240-35	VER_EB3	Total/NA	Water	SM 2540C	
MB 500-767933/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-767933/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 768556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-35	VER_EB3	Total/NA	Water	300.0	

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

General Chemistry (Continued)

Analysis Batch: 768556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-768556/33	Method Blank	Total/NA	Water	300.0	
LCS 500-768556/34	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 769064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-9	VER_022	Total/NA	Water	SM 2320B	
MB 500-769064/28	Method Blank	Total/NA	Water	SM 2320B	
MB 500-769064/53	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-769064/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-769064/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 769294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-32	VER_FB	Total/NA	Water	SM 2320B	
500-250240-33	VER_EB1	Total/NA	Water	SM 2320B	
500-250240-34	VER_EB2	Total/NA	Water	SM 2320B	
500-250240-35	VER_EB3	Total/NA	Water	SM 2320B	
MB 500-769294/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-769294/29	Lab Control Sample	Total/NA	Water	SM 2320B	
500-250240-34 DU	VER_EB2	Total/NA	Water	SM 2320B	

Analysis Batch: 769344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-9	VER_022	Total/NA	Water	300.0	
500-250240-32	VER_FB	Total/NA	Water	300.0	
500-250240-33	VER_EB1	Total/NA	Water	300.0	
500-250240-34	VER_EB2	Total/NA	Water	300.0	
MB 500-769344/3	Method Blank	Total/NA	Water	300.0	
MB 500-769344/55	Method Blank	Total/NA	Water	300.0	
LCS 500-769344/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-769344/56	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 769993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-9	VER_022	Total/NA	Water	SM 4500 F C	
MB 500-769993/23	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-769993/24	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 770352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-32	VER_FB	Total/NA	Water	SM 4500 F C	
500-250240-33	VER_EB1	Total/NA	Water	SM 4500 F C	
500-250240-34	VER_EB2	Total/NA	Water	SM 4500 F C	
500-250240-35	VER_EB3	Total/NA	Water	SM 4500 F C	
MB 500-770352/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-770352/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-770352/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-770352/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP

Job ID: 500-251785-4
SDG: VER_845_912

General Chemistry

Analysis Batch: 771692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-5	VER_010	Total/NA	Water	SM 2540C	
500-251785-6	VER_016A	Total/NA	Water	SM 2540C	
MB 500-771692/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-771692/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 771878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-9	VER_EB1	Total/NA	Water	SM 2540C	
500-251785-10	VER_FB	Total/NA	Water	SM 2540C	
500-251785-11	VER_035&D	Total/NA	Water	SM 2540C	
500-251785-13	VER_070&D	Total/NA	Water	SM 2540C	
500-251785-14	VER_070#S	Total/NA	Water	SM 2540C	
MB 500-771878/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-771878/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-251785-13 DU	VER_070&D	Total/NA	Water	SM 2540C	

Analysis Batch: 772471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-5	VER_010	Total/NA	Water	300.0	
500-251785-6	VER_016A	Total/NA	Water	300.0	
500-251785-9	VER_EB1	Total/NA	Water	300.0	
500-251785-10	VER_FB	Total/NA	Water	300.0	
500-251785-11	VER_035&D	Total/NA	Water	300.0	
500-251785-13	VER_070&D	Total/NA	Water	300.0	
500-251785-13	VER_070&D	Total/NA	Water	300.0	
500-251785-14	VER_070#S	Total/NA	Water	300.0	
500-251785-14	VER_070#S	Total/NA	Water	300.0	
MB 500-772471/3	Method Blank	Total/NA	Water	300.0	
MB 500-772471/42	Method Blank	Total/NA	Water	300.0	
LCS 500-772471/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-772471/43	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 772705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-6	VER_016A	Total/NA	Water	300.0	
MB 500-772705/3	Method Blank	Total/NA	Water	300.0	
LCS 500-772705/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 773440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-5	VER_010	Total/NA	Water	SM 2320B	
500-251785-6	VER_016A	Total/NA	Water	SM 2320B	
500-251785-9	VER_EB1	Total/NA	Water	SM 2320B	
500-251785-10	VER_FB	Total/NA	Water	SM 2320B	
500-251785-11	VER_035&D	Total/NA	Water	SM 2320B	
500-251785-13	VER_070&D	Total/NA	Water	SM 2320B	
500-251785-14	VER_070#S	Total/NA	Water	SM 2320B	
MB 500-773440/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-773440/4	Lab Control Sample	Total/NA	Water	SM 2320B	

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
Job ID: 500-251785-4
SDG: VER_845_912

General Chemistry

Analysis Batch: 774096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-5	VER_010	Total/NA	Water	SM 4500 F C	
500-251785-6	VER_016A	Total/NA	Water	SM 4500 F C	
500-251785-9	VER_EB1	Total/NA	Water	SM 4500 F C	
500-251785-10	VER_FB	Total/NA	Water	SM 4500 F C	
500-251785-11	VER_035&D	Total/NA	Water	SM 4500 F C	
500-251785-13	VER_070&D	Total/NA	Water	SM 4500 F C	
500-251785-14	VER_070#S	Total/NA	Water	SM 4500 F C	
MB 500-774096/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-774096/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 768956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-9	VER_022	Total/NA	Water	Field Sampling	

Analysis Batch: 769134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250240-37	VER_035#S	Total/NA	Water	Field Sampling	

Analysis Batch: 772230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251785-5	VER_010	Total/NA	Water	Field Sampling	
500-251785-6	VER_016A	Total/NA	Water	Field Sampling	
500-251785-11	VER_035&D	Total/NA	Water	Field Sampling	
500-251785-13	VER_070&D	Total/NA	Water	Field Sampling	
500-251785-14	VER_070#S	Total/NA	Water	Field Sampling	
500-251785-16	VER_71#S	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-768461/1-A
Matrix: Water
Analysis Batch: 768845

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 768461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		05/17/24 09:33	05/20/24 12:53	1

Lab Sample ID: LCS 500-768461/2-A
Matrix: Water
Analysis Batch: 768845

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 768461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.258		mg/L		103	85 - 115

Lab Sample ID: MB 500-769315/1-A
Matrix: Water
Analysis Batch: 769760

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 769315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		05/23/24 10:40	05/24/24 13:40	1

Lab Sample ID: LCS 500-769315/2-A
Matrix: Water
Analysis Batch: 769760

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 769315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.265		mg/L		106	85 - 115

Lab Sample ID: MB 500-772671/1-A
Matrix: Water
Analysis Batch: 773200

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 772671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		06/14/24 10:00	06/18/24 13:43	1

Lab Sample ID: LCS 500-772671/2-A
Matrix: Water
Analysis Batch: 773200

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 772671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.243		mg/L		97	85 - 115

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-769084/1-A
Matrix: Water
Analysis Batch: 769360

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 769084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		05/22/24 09:30	05/23/24 11:24	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		05/22/24 09:30	05/23/24 11:24	1
Barium	0.000873	J	0.0025	0.00073	mg/L		05/22/24 09:30	05/23/24 11:24	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/22/24 09:30	05/23/24 11:24	1
Boron	0.0293	J	0.050	0.013	mg/L		05/22/24 09:30	05/23/24 11:24	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/22/24 09:30	05/23/24 11:24	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
VER-24Q2
SDG: VER_845_912

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-769084/1-A
Matrix: Water
Analysis Batch: 769360

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 769084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.20		0.20	0.044	mg/L		05/22/24 09:30	05/23/24 11:24	1
Chromium	<0.0050		0.0050	0.0011	mg/L		05/22/24 09:30	05/23/24 11:24	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		05/22/24 09:30	05/23/24 11:24	1
Lead	<0.00050		0.00050	0.00019	mg/L		05/22/24 09:30	05/23/24 11:24	1
Magnesium	<0.20		0.20	0.049	mg/L		05/22/24 09:30	05/23/24 11:24	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		05/22/24 09:30	05/23/24 11:24	1
Potassium	<0.50		0.50	0.11	mg/L		05/22/24 09:30	05/23/24 11:24	1
Selenium	<0.0025		0.0025	0.00098	mg/L		05/22/24 09:30	05/23/24 11:24	1
Sodium	<0.20		0.20	0.077	mg/L		05/22/24 09:30	05/23/24 11:24	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/22/24 09:30	05/23/24 11:24	1

Lab Sample ID: LCS 500-769084/2-A
Matrix: Water
Analysis Batch: 769360

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 769084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.493		mg/L		99	80 - 120
Arsenic	0.100	0.0985		mg/L		98	80 - 120
Barium	0.500	0.499		mg/L		100	80 - 120
Beryllium	0.0500	0.0500		mg/L		100	80 - 120
Boron	1.00	1.02		mg/L		102	80 - 120
Cadmium	0.0500	0.0506		mg/L		101	80 - 120
Calcium	10.0	8.11		mg/L		81	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.534		mg/L		107	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Magnesium	10.0	10.4		mg/L		104	80 - 120
Molybdenum	1.00	0.992		mg/L		99	80 - 120
Potassium	10.0	10.4		mg/L		104	80 - 120
Selenium	0.100	0.0974		mg/L		97	80 - 120
Sodium	10.0	10.3		mg/L		103	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: MB 500-769085/1-A
Matrix: Water
Analysis Batch: 769505

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 769085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		05/22/24 09:30	05/23/24 16:04	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		05/22/24 09:30	05/23/24 16:04	1
Barium	0.00135	J	0.0025	0.00073	mg/L		05/22/24 09:30	05/23/24 16:04	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/22/24 09:30	05/23/24 16:04	1
Boron	0.0403	J	0.050	0.013	mg/L		05/22/24 09:30	05/23/24 16:04	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/22/24 09:30	05/23/24 16:04	1
Calcium	<0.20		0.20	0.044	mg/L		05/22/24 09:30	05/23/24 16:04	1
Chromium	<0.0050		0.0050	0.0011	mg/L		05/22/24 09:30	05/23/24 16:04	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		05/22/24 09:30	05/23/24 16:04	1
Lead	<0.00050		0.00050	0.00019	mg/L		05/22/24 09:30	05/23/24 16:04	1
Magnesium	<0.20		0.20	0.049	mg/L		05/22/24 09:30	05/23/24 16:04	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-769085/1-A
Matrix: Water
Analysis Batch: 769505

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 769085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.0050		0.0050	0.0025	mg/L		05/22/24 09:30	05/23/24 16:04	1
Potassium	<0.50		0.50	0.11	mg/L		05/22/24 09:30	05/23/24 16:04	1
Selenium	<0.0025		0.0025	0.00098	mg/L		05/22/24 09:30	05/23/24 16:04	1
Sodium	0.100	J	0.20	0.077	mg/L		05/22/24 09:30	05/23/24 16:04	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/22/24 09:30	05/23/24 16:04	1

Lab Sample ID: LCS 500-769085/2-A
Matrix: Water
Analysis Batch: 769505

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 769085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.473		mg/L		95	80 - 120
Arsenic	0.100	0.0985		mg/L		98	80 - 120
Barium	0.500	0.469		mg/L		94	80 - 120
Beryllium	0.0500	0.0495		mg/L		99	80 - 120
Boron	1.00	0.997		mg/L		100	80 - 120
Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Chromium	0.200	0.219		mg/L		109	80 - 120
Cobalt	0.500	0.533		mg/L		107	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Magnesium	10.0	9.91		mg/L		99	80 - 120
Molybdenum	1.00	0.970		mg/L		97	80 - 120
Potassium	10.0	10.0		mg/L		100	80 - 120
Selenium	0.100	0.0921		mg/L		92	80 - 120
Sodium	10.0	9.47		mg/L		95	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-769085/2-A
Matrix: Water
Analysis Batch: 769566

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 769085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	10.0	9.55		mg/L		95	80 - 120

Lab Sample ID: MB 500-769270/1-A
Matrix: Water
Analysis Batch: 769505

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 769270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		05/23/24 08:47	05/23/24 16:11	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		05/23/24 08:47	05/23/24 16:11	1
Barium	<0.0025		0.0025	0.00073	mg/L		05/23/24 08:47	05/23/24 16:11	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		05/23/24 08:47	05/23/24 16:11	1
Boron	0.0374	J	0.050	0.013	mg/L		05/23/24 08:47	05/23/24 16:11	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		05/23/24 08:47	05/23/24 16:11	1
Chromium	<0.0050		0.0050	0.0011	mg/L		05/23/24 08:47	05/23/24 16:11	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		05/23/24 08:47	05/23/24 16:11	1
Lead	<0.00050		0.00050	0.00019	mg/L		05/23/24 08:47	05/23/24 16:11	1
Magnesium	<0.20		0.20	0.049	mg/L		05/23/24 08:47	05/23/24 16:11	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-769270/1-A
Matrix: Water
Analysis Batch: 769505

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 769270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.0050		0.0050	0.0025	mg/L		05/23/24 08:47	05/23/24 16:11	1
Potassium	<0.50		0.50	0.11	mg/L		05/23/24 08:47	05/23/24 16:11	1
Selenium	<0.0025		0.0025	0.00098	mg/L		05/23/24 08:47	05/23/24 16:11	1
Sodium	<0.20		0.20	0.077	mg/L		05/23/24 08:47	05/23/24 16:11	1
Thallium	<0.0020		0.0020	0.00057	mg/L		05/23/24 08:47	05/23/24 16:11	1

Lab Sample ID: MB 500-769270/1-A
Matrix: Water
Analysis Batch: 769566

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 769270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.20		0.20	0.044	mg/L		05/23/24 08:47	05/24/24 13:38	1

Lab Sample ID: LCS 500-769270/2-A
Matrix: Water
Analysis Batch: 769505

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 769270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.468		mg/L		94	80 - 120
Arsenic	0.100	0.0990		mg/L		99	80 - 120
Barium	0.500	0.463		mg/L		93	80 - 120
Beryllium	0.0500	0.0512		mg/L		102	80 - 120
Boron	1.00	0.987		mg/L		99	80 - 120
Cadmium	0.0500	0.0493		mg/L		99	80 - 120
Chromium	0.200	0.215		mg/L		107	80 - 120
Cobalt	0.500	0.541		mg/L		108	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Magnesium	10.0	9.96		mg/L		100	80 - 120
Molybdenum	1.00	0.965		mg/L		96	80 - 120
Potassium	10.0	9.87		mg/L		99	80 - 120
Selenium	0.100	0.0918		mg/L		92	80 - 120
Sodium	10.0	9.23		mg/L		92	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LCS 500-769270/2-A
Matrix: Water
Analysis Batch: 769566

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 769270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	10.0	9.43		mg/L		94	80 - 120

Lab Sample ID: MB 500-772668/1-A
Matrix: Water
Analysis Batch: 773422

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 772668

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/14/24 10:00	06/19/24 16:25	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		06/14/24 10:00	06/19/24 16:25	1
Barium	<0.0025		0.0025	0.00073	mg/L		06/14/24 10:00	06/19/24 16:25	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		06/14/24 10:00	06/19/24 16:25	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-772668/1-A
Matrix: Water
Analysis Batch: 773422

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 772668

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/14/24 10:00	06/19/24 16:25	1
Calcium	<0.20		0.20	0.044	mg/L		06/14/24 10:00	06/19/24 16:25	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/14/24 10:00	06/19/24 16:25	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		06/14/24 10:00	06/19/24 16:25	1
Lead	<0.00050		0.00050	0.00019	mg/L		06/14/24 10:00	06/19/24 16:25	1
Magnesium	<0.20		0.20	0.049	mg/L		06/14/24 10:00	06/19/24 16:25	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		06/14/24 10:00	06/19/24 16:25	1
Potassium	<0.50		0.50	0.11	mg/L		06/14/24 10:00	06/19/24 16:25	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/14/24 10:00	06/19/24 16:25	1
Sodium	<0.20		0.20	0.077	mg/L		06/14/24 10:00	06/19/24 16:25	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/14/24 10:00	06/19/24 16:25	1

Lab Sample ID: MB 500-772668/1-A
Matrix: Water
Analysis Batch: 773696

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 772668

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0291	J	0.050	0.013	mg/L		06/14/24 10:00	06/21/24 10:40	1

Lab Sample ID: LCS 500-772668/2-A
Matrix: Water
Analysis Batch: 773422

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 772668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.506		mg/L		101	80 - 120
Arsenic	0.100	0.0991		mg/L		99	80 - 120
Barium	0.500	0.512		mg/L		102	80 - 120
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Cadmium	0.0500	0.0520		mg/L		104	80 - 120
Calcium	10.0	8.97		mg/L		90	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Cobalt	0.500	0.538		mg/L		108	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Magnesium	10.0	10.7		mg/L		107	80 - 120
Molybdenum	1.00	0.986		mg/L		99	80 - 120
Potassium	10.0	10.5		mg/L		105	80 - 120
Selenium	0.100	0.0999		mg/L		100	80 - 120
Sodium	10.0	10.4		mg/L		104	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LCS 500-772668/2-A
Matrix: Water
Analysis Batch: 773696

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 772668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
VER-24Q2
SDG: VER_845_912

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-768486/12-A
Matrix: Water
Analysis Batch: 768726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 768486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		05/17/24 11:25	05/20/24 08:47	1

Lab Sample ID: LCS 500-768486/13-A
Matrix: Water
Analysis Batch: 768726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 768486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00185		mg/L		92	80 - 120

Lab Sample ID: MB 500-768718/12-A
Matrix: Water
Analysis Batch: 768920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 768718

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		05/20/24 11:35	05/21/24 11:01	1

Lab Sample ID: LCS 500-768718/13-A
Matrix: Water
Analysis Batch: 768920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 768718

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00193		mg/L		96	80 - 120

Lab Sample ID: MB 500-772904/12-A
Matrix: Water
Analysis Batch: 773036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 772904

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/17/24 18:00	06/18/24 07:33	1

Lab Sample ID: LCS 500-772904/13-A
Matrix: Water
Analysis Batch: 773036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 772904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00186		mg/L		93	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-768556/33
Matrix: Water
Analysis Batch: 768556

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			05/18/24 19:20	1
Sulfate	<1.0		1.0	0.21	mg/L			05/18/24 19:20	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-768556/34
Matrix: Water
Analysis Batch: 768556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.3		mg/L		101	90 - 110
Sulfate	20.0	21.1		mg/L		105	90 - 110

Lab Sample ID: MB 500-769344/3
Matrix: Water
Analysis Batch: 769344

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			05/23/24 15:24	1
Sulfate	<1.0		1.0	0.21	mg/L			05/23/24 15:24	1

Lab Sample ID: MB 500-769344/55
Matrix: Water
Analysis Batch: 769344

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			05/24/24 04:33	1
Sulfate	<1.0		1.0	0.21	mg/L			05/24/24 04:33	1

Lab Sample ID: LCS 500-769344/4
Matrix: Water
Analysis Batch: 769344

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.3		mg/L		101	90 - 110
Sulfate	20.0	20.7		mg/L		104	90 - 110

Lab Sample ID: LCS 500-769344/56
Matrix: Water
Analysis Batch: 769344

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.3		mg/L		102	90 - 110
Sulfate	20.0	20.7		mg/L		104	90 - 110

Lab Sample ID: MB 500-772471/3
Matrix: Water
Analysis Batch: 772471

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			06/13/24 12:36	1
Sulfate	<1.0		1.0	0.21	mg/L			06/13/24 12:36	1

Lab Sample ID: MB 500-772471/42
Matrix: Water
Analysis Batch: 772471

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			06/13/24 22:45	1
Sulfate	<1.0		1.0	0.21	mg/L			06/13/24 22:45	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 500-772471/4
Matrix: Water
Analysis Batch: 772471

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.7		mg/L		103	90 - 110
Sulfate	20.0	20.8		mg/L		104	90 - 110

Lab Sample ID: LCS 500-772471/43
Matrix: Water
Analysis Batch: 772471

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	20.6		mg/L		103	90 - 110

Lab Sample ID: MB 500-772705/3
Matrix: Water
Analysis Batch: 772705

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			06/15/24 10:56	1

Lab Sample ID: LCS 500-772705/4
Matrix: Water
Analysis Batch: 772705

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	18.8		mg/L		94	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-769064/28
Matrix: Water
Analysis Batch: 769064

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			05/21/24 20:13	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			05/21/24 20:13	1

Lab Sample ID: MB 500-769064/53
Matrix: Water
Analysis Batch: 769064

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			05/22/24 00:02	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			05/22/24 00:02	1

Lab Sample ID: LCS 500-769064/29
Matrix: Water
Analysis Batch: 769064

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	107		mg/L		107	80 - 120

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 500-769064/4
Matrix: Water
Analysis Batch: 769064

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	109		mg/L		109	80 - 120

Lab Sample ID: MB 500-769294/28
Matrix: Water
Analysis Batch: 769294

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	3.82	J	5.0	3.7	mg/L			05/22/24 21:19	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			05/22/24 21:19	1

Lab Sample ID: LCS 500-769294/29
Matrix: Water
Analysis Batch: 769294

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	108		mg/L		108	80 - 120

Lab Sample ID: 500-250240-34 DU
Matrix: Water
Analysis Batch: 769294

Client Sample ID: VER_EB2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: MB 500-773440/28
Matrix: Water
Analysis Batch: 773440

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			06/19/24 20:10	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			06/19/24 20:10	1

Lab Sample ID: LCS 500-773440/4
Matrix: Water
Analysis Batch: 773440

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	107		mg/L		107	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-767316/1
Matrix: Water
Analysis Batch: 767316

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	4.3	mg/L			05/10/24 01:32	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 500-767316/2
Matrix: Water
Analysis Batch: 767316

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	270		mg/L		108	80 - 120

Lab Sample ID: MB 500-767933/1
Matrix: Water
Analysis Batch: 767933

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	4.3	mg/L			05/14/24 23:19	1

Lab Sample ID: LCS 500-767933/2
Matrix: Water
Analysis Batch: 767933

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	236		mg/L		94	80 - 120

Lab Sample ID: MB 500-771692/1
Matrix: Water
Analysis Batch: 771692

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	4.3	mg/L			06/09/24 21:29	1

Lab Sample ID: LCS 500-771692/2
Matrix: Water
Analysis Batch: 771692

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	278		mg/L		111	80 - 120

Lab Sample ID: MB 500-771878/1
Matrix: Water
Analysis Batch: 771878

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	4.3	mg/L			06/10/24 20:24	1

Lab Sample ID: LCS 500-771878/2
Matrix: Water
Analysis Batch: 771878

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	272		mg/L		109	80 - 120

Lab Sample ID: 500-251785-13 DU
Matrix: Water
Analysis Batch: 771878

Client Sample ID: VER_070&D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1800		1740		mg/L		2	5

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-769993/23
Matrix: Water
Analysis Batch: 769993

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			05/28/24 22:56	1

Lab Sample ID: LCS 500-769993/24
Matrix: Water
Analysis Batch: 769993

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.89		mg/L		99	90 - 119

Lab Sample ID: MB 500-770352/3
Matrix: Water
Analysis Batch: 770352

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			05/30/24 18:35	1

Lab Sample ID: MB 500-770352/31
Matrix: Water
Analysis Batch: 770352

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			05/30/24 20:53	1

Lab Sample ID: LCS 500-770352/32
Matrix: Water
Analysis Batch: 770352

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.5		mg/L		105	90 - 119

Lab Sample ID: LCS 500-770352/4
Matrix: Water
Analysis Batch: 770352

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.1		mg/L		101	90 - 119

Lab Sample ID: MB 500-774096/3
Matrix: Water
Analysis Batch: 774096

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			06/21/24 11:14	1

Lab Sample ID: LCS 500-774096/4
Matrix: Water
Analysis Batch: 774096

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.66		mg/L		97	90 - 119

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Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
Job ID: 500-251785-4
SDG: VER_845_912

Client: Vistra Energy Corp
Project/Site: VER-24Q2

Client Sample ID: VER_022

Date Collected: 05/07/24 15:25

Date Received: 05/09/24 10:30

Lab Sample ID: 500-250240-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			768461	BDE	EET CHI	05/17/24 09:33 - 05/17/24 15:33 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	768845	RB	EET CHI	05/20/24 13:57
Total Recoverable	Prep	3005A			769084	RN	EET CHI	05/22/24 09:30 - 05/22/24 15:00 ¹
Total Recoverable	Analysis	6020B		1	769360	RN	EET CHI	05/23/24 12:43
Total/NA	Prep	7470A			768486	MJG	EET CHI	05/17/24 11:25 - 05/17/24 13:25 ¹
Total/NA	Analysis	7470A		1	768726	MJG	EET CHI	05/20/24 10:15
Total/NA	Analysis	300.0		1	769344	W1T	EET CHI	05/23/24 21:28
Total/NA	Analysis	SM 2320B		1	769064	LEG	EET CHI	05/21/24 21:02
Total/NA	Analysis	SM 2540C		1	767316	CLB	EET CHI	05/10/24 02:26
Total/NA	Analysis	SM 4500 F C		1	769993	PFK	EET CHI	05/28/24 23:32
Total/NA	Analysis	Field Sampling		1	768956	DN	EET CHI	05/07/24 15:25

Client Sample ID: VER_FB

Date Collected: 05/09/24 15:30

Date Received: 05/10/24 11:00

Lab Sample ID: 500-250240-32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			769315	BDE	EET CHI	05/23/24 10:40 - 05/23/24 16:40 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	769760	RB	EET CHI	05/24/24 14:58
Total Recoverable	Prep	3005A			769085	RN	EET CHI	05/22/24 09:30 - 05/22/24 15:00 ¹
Total Recoverable	Analysis	6020B		1	769505	RN	EET CHI	05/23/24 15:50
Total/NA	Prep	7470A			768718	MJG	EET CHI	05/20/24 11:35 - 05/20/24 13:35 ¹
Total/NA	Analysis	7470A		1	768920	MJG	EET CHI	05/21/24 11:16
Total/NA	Analysis	300.0		1	769344	W1T	EET CHI	05/24/24 10:38
Total/NA	Analysis	SM 2320B		1	769294	LEG	EET CHI	05/22/24 22:44
Total/NA	Analysis	SM 2540C		1	767933	CLB	EET CHI	05/15/24 00:05
Total/NA	Analysis	SM 4500 F C		1	770352	SO	EET CHI	05/30/24 20:45

Client Sample ID: VER_EB1

Date Collected: 05/09/24 15:40

Date Received: 05/10/24 11:00

Lab Sample ID: 500-250240-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			769315	BDE	EET CHI	05/23/24 10:40 - 05/23/24 16:40 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	769760	RB	EET CHI	05/24/24 15:02
Total Recoverable	Prep	3005A			769085	RN	EET CHI	05/22/24 09:30 - 05/22/24 15:00 ¹
Total Recoverable	Analysis	6020B		1	769505	RN	EET CHI	05/23/24 15:55
Total/NA	Prep	7470A			768718	MJG	EET CHI	05/20/24 11:35 - 05/20/24 13:35 ¹
Total/NA	Analysis	7470A		1	768920	MJG	EET CHI	05/21/24 11:22
Total/NA	Analysis	300.0		1	769344	W1T	EET CHI	05/24/24 10:53
Total/NA	Analysis	SM 2320B		1	769294	LEG	EET CHI	05/22/24 22:49
Total/NA	Analysis	SM 2540C		1	767933	CLB	EET CHI	05/15/24 00:08
Total/NA	Analysis	SM 4500 F C		1	770352	SO	EET CHI	05/30/24 20:49

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Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
Job ID: 500-251785-4
SDG: VER_845_912

Client: Vistra Energy Corp
Project/Site: VER-24Q2

Client Sample ID: VER_EB2

Date Collected: 05/09/24 15:50

Date Received: 05/10/24 11:00

Lab Sample ID: 500-250240-34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			769315	BDE	EET CHI	05/23/24 10:40 - 05/23/24 16:40 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	769760	RB	EET CHI	05/24/24 15:05
Total Recoverable	Prep	3005A			769085	RN	EET CHI	05/22/24 09:30 - 05/22/24 15:00 ¹
Total Recoverable	Analysis	6020B		1	769505	RN	EET CHI	05/23/24 16:06
Total/NA	Prep	7470A			768718	MJG	EET CHI	05/20/24 11:35 - 05/20/24 13:35 ¹
Total/NA	Analysis	7470A		1	768920	MJG	EET CHI	05/21/24 11:24
Total/NA	Analysis	300.0		1	769344	W1T	EET CHI	05/24/24 11:08
Total/NA	Analysis	SM 2320B		1	769294	LEG	EET CHI	05/22/24 22:52
Total/NA	Analysis	SM 2540C		1	767933	CLB	EET CHI	05/15/24 00:10
Total/NA	Analysis	SM 4500 F C		1	770352	SO	EET CHI	05/30/24 21:02

Client Sample ID: VER_EB3

Date Collected: 05/09/24 16:00

Date Received: 05/10/24 11:00

Lab Sample ID: 500-250240-35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			769315	BDE	EET CHI	05/23/24 10:40 - 05/23/24 16:40 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	769760	RB	EET CHI	05/24/24 15:09
Total Recoverable	Prep	3005A			769270	BDE	EET CHI	05/23/24 08:47 - 05/23/24 14:00 ¹
Total Recoverable	Analysis	6020B		1	769505	RN	EET CHI	05/23/24 17:10
Total Recoverable	Prep	3005A			769270	BDE	EET CHI	05/23/24 08:47 - 05/23/24 14:00 ¹
Total Recoverable	Analysis	6020B		1	769566	RN	EET CHI	05/24/24 12:29
Total Recoverable	Prep	3005A			769270	BDE	EET CHI	05/23/24 08:47 - 05/23/24 14:00 ¹
Total Recoverable	Analysis	6020B		1	769566	RN	EET CHI	05/24/24 13:40
Total/NA	Prep	7470A			768718	MJG	EET CHI	05/20/24 11:35 - 05/20/24 13:35 ¹
Total/NA	Analysis	7470A		1	768920	MJG	EET CHI	05/21/24 11:26
Total/NA	Analysis	300.0		1	768556	NMB	EET CHI	05/18/24 23:14
Total/NA	Analysis	SM 2320B		1	769294	LEG	EET CHI	05/22/24 22:58
Total/NA	Analysis	SM 2540C		1	767933	CLB	EET CHI	05/15/24 00:13
Total/NA	Analysis	SM 4500 F C		1	770352	SO	EET CHI	05/30/24 21:06

Client Sample ID: VER_035#S

Date Collected: 05/06/24 13:05

Date Received: 05/09/24 10:30

Lab Sample ID: 500-250240-37

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	769134	DN	EET CHI	05/06/24 13:05

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client: Vistra Energy Corp
Project/Site: VER-24Q2

Client Sample ID: VER_010

Date Collected: 06/06/24 17:00

Date Received: 06/07/24 09:45

Lab Sample ID: 500-251785-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			772671		EET CHI	06/14/24 10:00 - 06/14/24 18:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	773200	SJ	EET CHI	06/18/24 14:31
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773422	RN	EET CHI	06/19/24 17:01
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773696	RN	EET CHI	06/21/24 10:53
Total/NA	Prep	7470A			772904	MJG	EET CHI	06/17/24 18:00 - 06/17/24 20:00 ¹
Total/NA	Analysis	7470A		1	773036	MJG	EET CHI	06/18/24 07:46
Total/NA	Analysis	300.0		10	772471	W1T	EET CHI	06/13/24 18:51
Total/NA	Analysis	SM 2320B		1	773440	SO	EET CHI	06/19/24 17:43
Total/NA	Analysis	SM 2540C		1	771692	CLB	EET CHI	06/09/24 22:12
Total/NA	Analysis	SM 4500 F C		1	774096	SO	EET CHI	06/21/24 12:34
Total/NA	Analysis	Field Sampling		1	772230	DN	EET CHI	06/06/24 17:00

Client Sample ID: VER_016A

Date Collected: 06/06/24 12:10

Date Received: 06/07/24 09:45

Lab Sample ID: 500-251785-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			772671		EET CHI	06/14/24 10:00 - 06/14/24 18:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	773200	SJ	EET CHI	06/18/24 14:35
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773422	RN	EET CHI	06/19/24 17:03
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773696	RN	EET CHI	06/21/24 10:55
Total/NA	Prep	7470A			772904	MJG	EET CHI	06/17/24 18:00 - 06/17/24 20:00 ¹
Total/NA	Analysis	7470A		1	773036	MJG	EET CHI	06/18/24 07:48
Total/NA	Analysis	300.0		10	772705	NMB	EET CHI	06/15/24 15:14
Total/NA	Analysis	300.0		1	772471	W1T	EET CHI	06/13/24 19:07
Total/NA	Analysis	SM 2320B		1	773440	SO	EET CHI	06/19/24 17:53
Total/NA	Analysis	SM 2540C		1	771692	CLB	EET CHI	06/09/24 22:15
Total/NA	Analysis	SM 4500 F C		1	774096	SO	EET CHI	06/21/24 12:39
Total/NA	Analysis	Field Sampling		1	772230	DN	EET CHI	06/06/24 12:10

Client Sample ID: VER_EB1

Date Collected: 06/06/24 18:00

Date Received: 06/07/24 09:45

Lab Sample ID: 500-251785-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			772671		EET CHI	06/14/24 10:00 - 06/14/24 18:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	773200	SJ	EET CHI	06/18/24 15:08
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773422	RN	EET CHI	06/19/24 17:22

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Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client: Vistra Energy Corp
Project/Site: VER-24Q2

Client Sample ID: VER_EB1

Date Collected: 06/06/24 18:00

Date Received: 06/07/24 09:45

Lab Sample ID: 500-251785-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773696	RN	EET CHI	06/21/24 12:10
Total/NA	Prep	7470A			772904	MJG	EET CHI	06/17/24 18:00 - 06/17/24 20:00 ¹
Total/NA	Analysis	7470A		1	773036	MJG	EET CHI	06/18/24 08:05
Total/NA	Analysis	300.0		1	772471	W1T	EET CHI	06/13/24 21:58
Total/NA	Analysis	SM 2320B		1	773440	SO	EET CHI	06/19/24 18:26
Total/NA	Analysis	SM 2540C		1	771878	CLB	EET CHI	06/10/24 20:49
Total/NA	Analysis	SM 4500 F C		1	774096	SO	EET CHI	06/21/24 12:52

Client Sample ID: VER_FB

Date Collected: 06/06/24 18:10

Date Received: 06/07/24 09:45

Lab Sample ID: 500-251785-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			772671		EET CHI	06/14/24 10:00 - 06/14/24 18:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	773200	SJ	EET CHI	06/18/24 15:12
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773422	RN	EET CHI	06/19/24 17:24
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773696	RN	EET CHI	06/21/24 12:12
Total/NA	Prep	7470A			772904	MJG	EET CHI	06/17/24 18:00 - 06/17/24 20:00 ¹
Total/NA	Analysis	7470A		1	773036	MJG	EET CHI	06/18/24 08:07
Total/NA	Analysis	300.0		1	772471	W1T	EET CHI	06/13/24 22:14
Total/NA	Analysis	SM 2320B		1	773440	SO	EET CHI	06/19/24 18:29
Total/NA	Analysis	SM 2540C		1	771878	CLB	EET CHI	06/10/24 20:52
Total/NA	Analysis	SM 4500 F C		1	774096	SO	EET CHI	06/21/24 12:57

Client Sample ID: VER_035&D

Date Collected: 06/06/24 11:55

Date Received: 06/07/24 09:45

Lab Sample ID: 500-251785-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			772671		EET CHI	06/14/24 10:00 - 06/14/24 18:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	773200	SJ	EET CHI	06/18/24 15:17
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773422	RN	EET CHI	06/19/24 17:26
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		5	773696	RN	EET CHI	06/21/24 12:17
Total/NA	Prep	7470A			772904	MJG	EET CHI	06/17/24 18:00 - 06/17/24 20:00 ¹
Total/NA	Analysis	7470A		1	773036	MJG	EET CHI	06/18/24 08:09
Total/NA	Analysis	300.0		50	772471	W1T	EET CHI	06/13/24 22:30
Total/NA	Analysis	SM 2320B		1	773440	SO	EET CHI	06/19/24 18:33
Total/NA	Analysis	SM 2540C		1	771878	CLB	EET CHI	06/10/24 20:55
Total/NA	Analysis	SM 4500 F C		1	774096	SO	EET CHI	06/21/24 13:01

Eurofins Chicago

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
Job ID: 500-251785-4
SDG: VER_845_912

Client: Vistra Energy Corp
Project/Site: VER-24Q2

Client Sample ID: VER_035&D

Date Collected: 06/06/24 11:55

Date Received: 06/07/24 09:45

Lab Sample ID: 500-251785-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	772230	DN	EET CHI	06/06/24 11:55

Client Sample ID: VER_070&D

Date Collected: 06/06/24 09:55

Date Received: 06/07/24 09:45

Lab Sample ID: 500-251785-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			772671		EET CHI	06/14/24 10:00 - 06/14/24 18:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	773200	SJ	EET CHI	06/18/24 15:38
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773422	RN	EET CHI	06/19/24 17:42
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773696	RN	EET CHI	06/21/24 12:38
Total/NA	Prep	7470A			772904	MJG	EET CHI	06/17/24 18:00 - 06/17/24 20:00 ¹
Total/NA	Analysis	7470A		1	773036	MJG	EET CHI	06/18/24 08:24
Total/NA	Analysis	300.0		1	772471	W1T	EET CHI	06/14/24 01:22
Total/NA	Analysis	300.0		20	772471	W1T	EET CHI	06/14/24 01:37
Total/NA	Analysis	SM 2320B		1	773440	SO	EET CHI	06/19/24 18:53
Total/NA	Analysis	SM 2540C		1	771878	CLB	EET CHI	06/10/24 21:05
Total/NA	Analysis	SM 4500 F C		1	774096	SO	EET CHI	06/21/24 13:06
Total/NA	Analysis	Field Sampling		1	772230	DN	EET CHI	06/06/24 09:55

Client Sample ID: VER_070#S

Date Collected: 06/06/24 10:40

Date Received: 06/07/24 09:45

Lab Sample ID: 500-251785-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			772671		EET CHI	06/14/24 10:00 - 06/14/24 18:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	773200	SJ	EET CHI	06/18/24 15:50
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773422	RN	EET CHI	06/19/24 17:45
Total Recoverable	Prep	3005A			772668		EET CHI	06/14/24 10:00 - 06/14/24 16:00 ¹
Total Recoverable	Analysis	6020B		1	773696	RN	EET CHI	06/21/24 12:40
Total/NA	Prep	7470A			772904	MJG	EET CHI	06/17/24 18:00 - 06/17/24 20:00 ¹
Total/NA	Analysis	7470A		1	773036	MJG	EET CHI	06/18/24 08:26
Total/NA	Analysis	300.0		1	772471	W1T	EET CHI	06/14/24 01:53
Total/NA	Analysis	300.0		20	772471	W1T	EET CHI	06/14/24 02:09
Total/NA	Analysis	SM 2320B		1	773440	SO	EET CHI	06/19/24 19:04
Total/NA	Analysis	SM 2540C		1	771878	CLB	EET CHI	06/10/24 21:10
Total/NA	Analysis	SM 4500 F C		1	774096	SO	EET CHI	06/21/24 13:19
Total/NA	Analysis	Field Sampling		1	772230	DN	EET CHI	06/06/24 10:40

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Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Client: Vistra Energy Corp
Project/Site: VER-24Q2

Client Sample ID: VER_71#S Lab Sample ID: 500-251785-16
Date Collected: 06/06/24 09:35 Matrix: Water
Date Received: 06/07/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	772230	DN	EET CHI	06/06/24 09:35

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q2

ATTACHMENT B.
2024 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
Job ID: 500-251785-4
SDG: VER_845_912

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	Lithium
Field Sampling		Water	Depth to Water (ft from MP)
Field Sampling		Water	Field pH
Field Sampling		Water	Field Temperature
Field Sampling		Water	Oxidation Reduction Potential
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Turbidity
SM 2320B		Water	Bicarbonate Alkalinity as CaCO ₃
SM 2320B		Water	Carbonate Alkalinity as CaCO ₃

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-Vermillion**
Address: **10188 E 2150 North Rd**
Danville, IL 61834
Email To: **Brian.Voelker@VistraCorp.com**
Phone: **(217) 753-8911** Fax:
Requested Due Date/TAT: **10 day**

Section B Required Project Information

Report To: **Brian Voelker**
Copy To: **Sam Davies samantha.davies@vistracorp.com**
Dianna Tickner - Dianna.Tickner@vistracorp.com
Purchase Order No.
Project Name
Project Number: **50022750**

Section C Invoice Information

Attention: **Jason Stuckey**
Company Name: **Vistra Corp**
Address: **see Section A**
Quote Reference:
Project Manager:
Profile #:

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REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location

STATE

IL

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	500-250240 COC Project No./ Lab I.D.		
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		VER-845-910-911	VER-845-912	VER-NPDES-912	VER_000_RAD	VER_000_A	VER_000_B	VER_000_C							
1	VER_002		WT	G	5/8/24	1505	6											X			X	X									
2	VER_003R																	X			X	X									
3	VER_003R_FD																	X			X	X									
4	VER_004		WT	G	5/8/24	0950	6											X			X	X									
5	VER_005		WT	G	5/8/24	1445	6											X			X	X									
6	VER_007R		WT	G	5/7/24	1055	6											X			X	X									
7	VER_008R																	X			X	X									
8	VER_010		WT	G	5/8/24	1225	6												X	X	X	X									
9	VER_016IB																	X	X	X	X										
10	VER_016A		WT	G	5/8/24	0935	6												X	X	X	X									
11	VER_017																	X			X	X									
12	VER_020		WT	G	5/7/24	0915	6											X			X	X									
13	VER_021		WT	G	5/7/24	1055	6											X			X	X									
14	VER_022		WT	G	5/7/24	1525	6												X		X	X									
15	VER_034		WT	G	5/7/24	0905	6											X			X	X									
16	VER_035#S		WT	G	5/8/24	11												X	X	X	X										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
VER-24Q2 Rev 0	Home Tulevz	5-8-24	1700	John + Anna DEPA	5/9/24	1030	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER

SIGNATURE of SAMPLER

DATE Signed (MM/DD/YY)

4.6 → 4.2, 5.3 → 2.9, 1.7 → 1.8, 1.3 → 1.6, 0.2 → 0.8, 3.8 → 2.4

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

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Page 1 of 3



500-250240 COC

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

RELINQUISHED BY AFFILIATION

5.3 → 4.9, 2.6 → 1.2, 5.6 → 5.2, 5.2 → 4.8

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Page 2 of 3

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 WI WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OR 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 ↓	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.
		VER-845-910-911	VER-845-912	VER-NPDES-912	VER_000_RAD	VER_000_A	VER_000_B	VER_000_C																						
1	VER-035&D													X	X	X	X													
2	VER_036													X		X	X													
3	VER_036_FD													X		X	X													
4	VER_037													X		X	X													
5	VER_038													X		X	X													
6	VER_040													X		X	X													
7	VER_040_FD													X		X	X													
8	VER_041													X		X	X													
9	VER_042													X		X	X													
10	VER_043													X		X	X													
11	VER_043_FD													X		X	X													
12	VER_070#S														X	X	X													
13	VER_070&D														X	X	X													
14	VER_071#S														X	X	X													
15	VER_071&D														X	X	X													
16	VER_101&													X		X	X													
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION				DATE		TIME		ACCEPTED BY / AFFILIATION				DATE		TIME		SAMPLE CONDITIONS												
VER-24Q2 Rev 0		Donnelly				5-10-24		1100		[Signature]				5/10/24		1100														

08/05/24 (Rev. 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-Vermillion
Address: 10188 E 2150 North Rd
Danville, IL 61834
Email To: Brian.Voelker@VistraCorp.com
Phone (217) 753-8911 Fax:
Requested Due Date/TAT 10 day

Section B Required Project Information.

Report To: Brian Voelker
Copy To: Sam Davies samantha.davies@vistracorp.com
Dianna Tickner - Dianna.Tickner@vistracorp.com
Purchase Order No:
Project Name:
Project Number: 50022750

Section C Invoice Information

Attention: Jason Stuckey
Company Name: Vistra Corp
Address: see Section A
Quote Reference:
Project Manager:
Profile #:

Page 3 of 3

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED		PRESERVATIVES		Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.						
ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX	CODE	DATE	TIME	UNPRESERVED	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	VER-845-910-911	VER-845-912	VER-NPDES-912	VER_000_RAD	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)		
1	VER_103&	WT	9	5/9/24	1235									X					X					
2	VER_ND3													X					X					DTW Only
3	VER_NED1														X				X					845_912 Selected analytes
4	VER_OED1													X					X					DTW Only
5	VER_YSG01													X					X					DTW Only
6	VER_FB	WT	9	5/9/24	1530										X	X	X	X						
7	VER_EB1	WT	9	5/9/24	1540										X	X	X	X						
8	VER_EB2	WT	9	5/9/24	1550										X	X	X	X						
9	VER_EB3	WT	9	5/9/24	1600										X	X	X	X						
10	VER_17	WT	9	5/9/24	1335																			
11	VER_42.MS	WT	9	5/9/24	1120																			
12	VER_42.MSD	WT	9	5/9/24	1145																			
13	VER_21.MS	WT	9	5/7/24	1155																			
14	VER_21.MSD	WT	9	5/7/24	1155																			
15																								
16																								
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION				DATE		TIME		SAMPLE CONDITIONS						
VER-24Q2 Rev 0				Done F. Oz		5/10/24		1100		Sho L. Smith				5/10/24		1100								
SAMPLER NAME AND SIGNATURE										Temp in °C		Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples Intact (Y/N)								
PRINT Name of SAMPLER																								
SIGNATURE of SAMPLER:										DATE Signed (MM/DD/YY)														

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

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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
VERMILION POWER PLANT, NEAP
VER-845-912

Confidential

[illegible]

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-251785-4
SDG Number: VER_845_912

Login Number: 251785

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7,3.5,2.5,4.2,5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-250240-1

SDG Number: VER_000

Login Number: 250240

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2,2.9,1.8,1.4,0.8,3.4,4.9,2.2,5.2,4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

PROJECT INFORMATION

$$\begin{array}{r} 003R \quad 1315 \\ \hline 003RD \quad 1315 \end{array}$$

PROJECT INFORMATION

SAMPLE Ø5C 1525

PROJECT INFORMATION

008R 1420

PROJECT INFORMATION

VER 10 @ 1700

PROJECT INFORMATION

016A - Sample C.1210

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin - Vermilion</u>		Client: <u>Vistra</u>		Project Number: <u>0099</u>		Task #: _____		Start Date: <u>6/6/2024</u>		Time: <u>1400</u>		
Field Personnel: <u>Lorne</u>		Finish Date: _____		Time: <u>1435</u>								
WELL INFORMATION				EVENT TYPE								
Well ID: <u>20</u> Casing ID: <u>2</u> inches				Well Development Well Volume Approach Sampling				Low-Flow Low Stress Sampling Other (Specify): Low Flow				YSI SERIAL NO <u>09326 5X</u>
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µm/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity	
Pre	1400		13.83		14.06	7.68	.262	1.98	23.2	193		
Purge	1405				15.00	7.66	.257	1.77	31.8	188		
	1410				16.68	7.61	.259	1.58	43.2	179		
	1415				16.94	7.60	.247	1.32	38.1	182		
	1420				17.20	7.59	.246	1.27	40.1	184		
	1425				17.82	7.61	.239	1.18	39.2	182		
	1430				17.92	7.62	.237	1.17	36.8	181		
Sample	1435				17.92	7.61	.236	1.18	35.9	181		
NOTES (continued)							ABBREVIATIONS					
							Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units					

Sample @ 1435

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin Vermilion</u>		Client: <u>Vistra</u>		Project Number: <u>0099</u>		Task #: _____		Start Date: <u>6/6/2024</u>		Time: <u>1530</u>		
Field Personnel: <u>Corne</u>		Finish Date: <u>Same</u>		Time: <u>1605</u>								
WELL INFORMATION				EVENT TYPE								
Well ID: <u>21</u> Casing ID: <u>2"</u> <u>inches</u>				Well Development Well Volume Approach Sampling				☒ Low-Flow / ☐ Low Stress Sampling Other (Specify): <u>Low Flow</u>				YSI SERIAL NO <u>093265X</u>
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µS/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity	
<u>Pre</u>	<u>1530</u>		<u>91.92</u>		<u>15.32</u>	<u>7.94</u>	<u>.840</u>	<u>1.48</u>	<u>1.0</u>	<u>56</u>		
<u>Purge</u>	<u>1535</u>				<u>14.72</u>	<u>8.07</u>	<u>.837</u>	<u>0.99</u>	<u>3.0</u>	<u>37</u>		
	<u>1540</u>				<u>14.60</u>	<u>8.10</u>	<u>.816</u>	<u>0.44</u>	<u>4.6</u>	<u>20</u>		
	<u>1545</u>				<u>14.93</u>	<u>8.10</u>	<u>.810</u>	<u>0.39</u>	<u>3.5</u>	<u>35</u>		
	<u>1550</u>				<u>14.61</u>	<u>8.14</u>	<u>.808</u>	<u>0.38</u>	<u>4.6</u>	<u>40</u>		
	<u>1555</u>				<u>15.01</u>	<u>8.11</u>	<u>.811</u>	<u>0.32</u>	<u>3.2</u>	<u>37</u>		
	<u>1600</u>				<u>14.91</u>	<u>8.12</u>	<u>.814</u>	<u>0.34</u>	<u>3.4</u>	<u>36</u>		
<u>Sample</u>	<u>1605</u>		<u>98.12</u>		<u>14.92</u>	<u>8.11</u>	<u>.815</u>	<u>0.31</u>	<u>3.1</u>	<u>35</u>		
NOTES (continued)								ABBREVIATIONS				
								Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units				

21/MS/MSD @ 1605

PROJECT INFORMATION

Sample 1155

PROJECT INFORMATION

42
42 ms
42 msD

> @ 1315

[illegible]

705 Sample @ 0955

PROJECT INFORMATION

Sample 701D @ 1040

PROJECT INFORMATION

2.2' of water
HIS ~~is~~ insufficient water to collect
Sample
Drops out w/ fill on flow through

PROJECT INFORMATION

71 D Dry

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Vermilion</u>		Client: <u>Vistra</u>		Project Number: <u>C099</u>		Task #: _____		Start Date: <u>6/6/2024</u>		Time: <u>1710</u>		
Field Personnel: <u>Lorne</u>		Finish Date: <u>Same</u>		Time: <u>1740</u>								
WELL INFORMATION				EVENT TYPE								
Well ID: <u>101b</u> Casing ID: <u>21</u> inches				Well Development Well Volume Approach Sampling				☒ Low-Flow / ☐ Low Stress Sampling Other (Specify): Low Flow				YSI SERIAL NO <u>U93265X</u>
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µS/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity	
Pre	1710		deeper		21.25	7.95	1.02	1.19	5.2	82		
Purge	1715		Thru 100'		18.21	8.14	1.26	0.96	4.9	79		
	1720		thru		17.33	8.24	1.32	0.87	3.8	69		
	1725		↓		17.36	8.22	1.34	0.83	2.1	66		
	1730		↓		17.39	8.18	1.33	0.61	2.9	64		
	1735		↓		17.30	8.17	1.34	0.59	8.0	61		
Sample	1740		↓		17.25	8.16	1.34	0.55	7.9	59		
NOTES (continued)								ABBREVIATIONS				
								Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units				

101b @ 1740

SAR-3: Episodic Depth to Groundwater Measurements

All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

Plant: VER

Event: VER-24Q2 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments Total depth of well (ft)	Initials
101S	VER_101#S	5/6/24	1020	57.91	64.18	AS
102	VER_102&	5/6/24	1055	123.89	155.00	AS
102S	VER_102#S	5/6/24	1050	71.93 72.68	72.68	AS
103S	VER_103#S	5/6/24	1115	58.02 73.94	73.94	AS
104	VER_104&	5/6/24	1105	124.88	159.90	AS
104S	VER_104#S	5/6/24	1100	72.33	83.64	AS
105	VER_105&	5/6/24	1130	120.29	137.30	AS
105S	VER_105#S	5/6/24	1125	70.22	75.72	AS
16B	VER_016!B	5/6/24	1230	—	NO water	AS
23	VER_023	5/6/24	1300	12.34	24.80	AS
24	VER_024	5/6/24	1255	22.36	56.97	AS
25	VER_025	5/6/24	1440	15.42	41.87	AS
35S	VER_035#S	5/6/24	1305	12.02	12.45	AS
SG01	VER_YSG01	5/6/24	1600	16.16	Transducer will be added to this location at a future date	AS
44		5/6/24	1320	13.93	43.07 U:6/21/23 GKJ	transducer was added. Data sent via Hobolink
18		5/6/24	1420	32.72	40.63	
06R		5/6/24	1515	4.19	13.35	
1		5/6/24	1535	77.25	111.88	

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

All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

Plant: VER
Event: VER-24Q2 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
					Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data downloaded?	Batt (H/M/L)		
02	VER_002	5/6/24	1450	17.02	21863664	Y	576.65	Y	H		AS
03R	VER_003R	↓	1515	6.58	21863701	Y	578.06	Y	H		AS
04	VER_004	↓	1355	7.02	21615494	Y	584.28	Y	H		AS
05	VER_005	↓	1345	7.11	21863665	Y	588.96	Y	H		AS
07R	VER_007R	↓	1455	15.61	21863672	Y	579.19	Y	H		AS
08R	VER_008R	↓	1510	12.24	21615142	Y	582.67	Y	H		AS
10	VER_010	↓	1150	48.16	21629313	21921674	611.61	Y	H		AS
101	VER_101&	↓	1015	108.83	21739729	Y	598.36	Y	H		AS
103	VER_103&	↓	1120	129.23	21615619	Y	591.83	Y	H		AS
16A	VER_016A	↓	1225	10.82	21564137	+	—	N	—	No Transducer	
17	VER_017	↓	1220	37.63	21675573	Y	586.11	Y	H		AS
20	VER_020	↓	1405	12.87	21863671	Y	579.47	Y	H		AS
21	VER_021	↓	1140	91.11	21615622	Y	582.29	Y	H		AS
22	VER_022	↓	1155	54.51	21739726	Y	605.44	Y	H		AS
34	VER_034	↓	1400	12.86	21615519	Y	580.31	Y	H		AS
35D	VER_035&D	↓	1250	11.79	21564141	—	—	N	—	No Transducer	
36	VER_036	↓	1440	13.04	21863668	Y	591.29	Y	H		AS
37	VER_037	↓	1445	6.93	21863670	Y	577.27	Y	H		AS
38	VER_038	↓	1405	3.42	21863674	Y	588.83	Y	H		AS
40	VER_040	↓	1500	14.08	21863667	Y	578.62	Y	H		AS
41	VER_041	↓	1435	4.86	21615517	Y	582.74	Y	H		AS
42	VER_042	↓	1310	26.47	21863663	Y	584.28	Y	M		AS
43	VER_043	↓	1315	15.57	21615627	Y	592.56	Y	H		AS
70D	VER_070&D	↓	1210	36.89	21615620	Y	584.82	Y	H		AS
70S	VER_070#S	↓	1205	9.08	21615597	Y	585.26	Y	H		AS
71D	VER_071&D	↓	1220	38.22	21863675	Y	543.09	Y	H		AS
71S	VER_071#S	↓	1225	9.28	21615599	Y	597.83	Y	H		AS
ND3	VER_ND3	↓	1335	13.55	21863702	Y	620.81	Y	H		AS
NED1	VER_NED1	↓			21739721	+	—	N	—	FLOODED - NO access	
OED1	VER_OED1	↓	1525	40.47	21739731	Y	590.39	Y	H		AS
SG01	VER_SG01	↓	1610	16.16	21629313	21615604	673.77	Y	H		AS

U: 4/12/24 SSW

PROJECT INFORMATION

sampled @ 1235

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion</u>		Client: <u>Visira</u>									
Project Number: <u>2024.0099</u>		Task #:		Start Date: <u>5/9/2024</u>		Time: <u>0750</u>					
Field Personnel: <u>L. Filewicz / A. Savage</u>		Finish Date: <u>5/9/24</u>		Time: <u>0825</u>							
WELL INFORMATION				EVENT TYPE							
Well ID: <u>43</u> Casing ID: <u>2</u> inches				Well Development Well Volume Approach Sampling				Low-Flow / Low Stress Sampling Other (Specify): <u>Low Flow</u>			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>pre</u>	<u>0750</u>	<u>0</u>	<u>17.22</u>	<u>0</u>	<u>11.8</u>	<u>7.14</u>	<u>1411</u>	<u>2.10</u>	<u>24.17</u>	<u>-93.7</u>	<u>clear</u>
	<u>0755</u>				<u>11.8</u>	<u>7.16</u>	<u>1372</u>	<u>2.82</u>	<u>28.10</u>	<u>-67.7</u>	<u>clear</u>
	<u>0800</u>				<u>11.8</u>	<u>7.17</u>	<u>1356</u>	<u>2.90</u>	<u>21.99</u>	<u>-70.6</u>	<u>clear</u>
	<u>0805</u>				<u>11.8</u>	<u>7.20</u>	<u>1297</u>	<u>2.29</u>	<u>23.14</u>	<u>-72.3</u>	<u>clear</u>
	<u>0810</u>				<u>11.8</u>	<u>7.21</u>	<u>1278</u>	<u>2.20</u>	<u>24.23</u>	<u>-74.1</u>	<u>clear</u>
	<u>0815</u>				<u>11.8</u>	<u>7.22</u>	<u>1270</u>	<u>2.24</u>	<u>22.89</u>	<u>-75.1</u>	<u>clear</u>
	<u>0820</u>				<u>11.8</u>	<u>7.22</u>	<u>1267</u>	<u>2.26</u>	<u>21.72</u>	<u>-76.2</u>	<u>clear</u>
	<u>0825</u>	<u>4.5</u>	<u>21.19</u>	<u>3.97</u>	<u>11.8</u>	<u>7.23</u>	<u>1267</u>	<u>2.27</u>	<u>20.99</u>	<u>-77.9</u>	<u>clear</u>
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / Clear / No Color / No odor								Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing riser Conductance SU - Standard Units			

sampled @ 0825

PROJECT INFORMATION

08/05/24 (Rev. 1)

PROJECT INFORMATION

08/05/24 (Rev. 1)

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion</u>		Client: <u>Vistra</u>		Time: <u>12 10</u>		# of Bottles <u>6</u>					
Project Number: <u>1015</u>		Task #: <u>Same</u>		Start Date: <u>5 / 9 / 2024</u>							
Field Personnel: <u>L. Filewicz - A. Savage</u>		Finish Date: <u>Same</u>		Time: <u>13 10</u>							
WELL INFORMATION				EVENT TYPE							
Well ID: <u>1015</u> Casing ID: <u>2" 1/2</u>				Well Development Well Volume Approach Sampling				☒ Low-Flow / ☐ Low Stress Sampling Other (Specify): Low Flow			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1210		109.60		14.0	17.48	1223	3049.00	8421	-77.3	
	1215				14.1	17.48	1277	3308.00	53.47	-87.6	
	1220				13.9	17.48	1277	3344.00	92.30	-93.1	
	1225				14.0	17.48	1270	3370.88	228.56	-97.3	
	1230				14.0	17.48	1262	3370.47	279.51	-102.1	
	1235				14.0	17.48	1256	3396.84	427.92	-106.4	
	1240				13.8	17.47	1248	3411.99	410.41	-111.2	
	1245				13.7	17.49	1232	3426.31	303.25	-114.1	
	1250				13.7	17.49	1212	3427.0	168.24	-116.2	
	1255				13.8	17.49	1192	3434.16	78.42	-119.2	
	1300				13.7	17.49	1176	3430.48	73.33	-120.2	
	1305	2.56	109.10		13.9	17.48	1146	3465.26	269.29	-123.2	
	1310				14.0	17.48	1116	3394	126.29	-123.6	
NOTES (continued)							ABBREVIATIONS				
Bladder Pump / Clear / No Color / No odor							Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOT - Feet Below Top of Casing ne - Conductance SU - Standard Units				

PROJECT INFORMATION

O3 DUPE

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Vermillion		Client: Vistra		Time: 1130		# of Bottles 6					
Project Number: <u> </u>		Task #: <u> </u>		Start Date: 5/9/2024							
Field Personnel: L. Filewicz, A. Savage		Finish Date: Same		Time: 1145							
WELL INFORMATION Well ID: <u>42</u> Casing ID: <u> </u> inches <u>2.9</u>				EVENT TYPE Well Development ☐ Low-Flow / Low Stress Sampling Other ☐ Well Volume Approach Sampling ☐ (Specify): Low Flow							
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / Clear / No Color / No odor								Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units			

42 MSD

PROJECT INFORMATION

42 m/s

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Vermilion		Client: Vistra									
Project Number: 2004.0099		Task #:		Start Date: 5/8/2024		Time: 1440					
Field Personnel: L. Filewicz, A. Savage		Finish Date: 5/8/2024		Time: 1505							
WELL INFORMATION				EVENT TYPE							
Well ID: 2				Well Development				Low-Flow / Low Stress Sampling Other			
Casing ID: 2 inches				Well Volume Approach Sampling				(Specify) Low Flow			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1440	0	18.05	0	14.2	7.78	1077	1.01	3.64	-54.0	clear
purg	1445				14.5	7.78	1076	1.81	4.19	-57.2	clear
	1450				14.8	7.78	1080	2.27	5.74	-59.5	clear
	1455				14.7	7.78	1082	2.13	8.18	-60.7	clear
	1500				14.6	7.78	1081	2.10	9.30	-62.7	clear
sample	1505	1.5	16.90	1.15	14.5	7.77	1069	2.09	9.89	-63.9	clear
NOTES (continued)							ABBREVIATIONS				
Bladder Pump / Clear / No Color / No odor							Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical				
wasp nest in well head							FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units				
sampled @ 1505											

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion</u>		Client: <u>Vistra</u>									
Project Number: <u>2024.0099</u>		Task #: _____		Start Date: <u>5/8/2024</u>		Time: <u>1345</u>					
Field Personnel: <u>L. Filewicz - A. Savage</u>		Finish Date: <u>5/8/24</u>		Time: <u>1410</u>							
WELL INFORMATION				EVENT TYPE							
Well ID: <u>310</u> Casing ID: <u>2</u> inches				Well Development Well Volume Approach Sampling				Low-Flow / Low Stress Sampling Other (Specify): <u>Low Flow</u>			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>pre</u>	<u>1345</u>	<u>0</u>	<u>13.30</u>	<u>0</u>	<u>11.9</u>	<u>7.33</u>	<u>1852</u>	<u>.83</u>	<u>92.12</u>	<u>-55.5</u>	<u>clear</u>
<u>purge</u>	<u>1350</u>				<u>11.8</u>	<u>7.37</u>	<u>1851</u>	<u>.31</u>	<u>53.04</u>	<u>-61.1</u>	<u>clear</u>
	<u>1355</u>				<u>11.9</u>	<u>7.42</u>	<u>1855</u>	<u>.07</u>	<u>11.810</u>	<u>-72.9</u>	<u>clear</u>
	<u>1400</u>				<u>11.7</u>	<u>7.43</u>	<u>1853</u>	<u>.06</u>	<u>12.72</u>	<u>-73.4</u>	<u>clear</u>
	<u>1405</u>				<u>11.7</u>	<u>7.43</u>	<u>1854</u>	<u>.05</u>	<u>11.89</u>	<u>-74.5</u>	<u>clear</u>
<u>sample</u>	<u>1410</u>	<u>4</u>	<u>13.13</u>	<u>0.17</u>	<u>11.7</u>	<u>7.43</u>	<u>1855</u>	<u>.05</u>	<u>11.71</u>	<u>-74.7</u>	<u>clear</u>
NOTES (continued)							ABBREVIATIONS				
Bladder Pump / Clear / No Color / No odor <u>murky brown @ first; cleared up after ~ 200 ml purged</u>							Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units				

Sampled @ 1410

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion</u>			Client: <u>Vistra</u>								
Project Number: <u>2024.0099</u> Task #:			Start Date: <u>5/8/2024</u> <u>1300</u>			Time: _____					
Field Personnel: <u>L. Filewicz / A. Savage</u>			Finish Date: <u>5/8/24</u>			Time: <u>1340</u>					
WELL INFORMATION				EVENT TYPE							
Well ID: <u>37</u> Casing ID: <u>2</u> inches				Well Development Well Volume Approach Sampling				Low-Flow / Low Stress Sampling Other (Specify): <u>Low-Flow</u>			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>Pre</u>	<u>1300</u>	<u>0</u>	<u>6.07</u>	<u>0</u>	<u>12.9</u>	<u>7.04</u>	<u>1355</u>	<u>.24</u>	<u>22.46</u>	<u>-99.1</u>	<u>clear</u>
<u>purge</u>	<u>1305</u>				<u>12.9</u>	<u>7.05</u>	<u>1350</u>	<u>.20</u>	<u>19.27</u>	<u>-101.7</u>	<u>clear</u>
	<u>1310</u>				<u>12.8</u>	<u>7.05</u>	<u>1348</u>	<u>.18</u>	<u>17.17</u>	<u>-104.1</u>	<u>clear</u>
	<u>1315</u>				<u>12.9</u>	<u>7.05</u>	<u>1345</u>	<u>.14</u>	<u>15.11</u>	<u>-105.6</u>	<u>clear</u>
	<u>1320</u>				<u>12.9</u>	<u>7.05</u>	<u>1344</u>	<u>.11</u>	<u>13.89</u>	<u>-107.8</u>	<u>clear</u>
	<u>1325</u>				<u>12.9</u>	<u>7.05</u>	<u>1344</u>	<u>.09</u>	<u>13.12</u>	<u>-109.3</u>	<u>clear</u>
	<u>1330</u>				<u>12.9</u>	<u>7.05</u>	<u>1340</u>	<u>.09</u>	<u>12.91</u>	<u>-110.5</u>	<u>clear</u>
<u>Sample</u>	<u>1340</u>	<u>2</u>	<u>6.76</u>	<u>.69</u>	<u>12.9</u>	<u>7.05</u>	<u>1339</u>	<u>.09</u>	<u>12.70</u>	<u>-110.8</u>	<u>clear</u>
NOTES (continued)							ABBREVIATIONS				
Bladder Pump / <u>Clear</u> / <u>No Color</u> / <u>No odor</u>							Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical				
							FT BTOC - Feet Below Top of Casing ne - Conductance SU - Standard Units				

sampled @ 1340

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion</u>			Client: <u>Vistra</u>								
Project Number: <u>2024.0099</u>			Task #: _____			Start Date: <u>5/8/2024</u>			Time: <u>1105</u>		
Field Personnel: <u>L. Filewicz - A. Savage</u>			Finish Date: <u>5/8/24</u>			Time: <u>1145</u>					
WELL INFORMATION					EVENT TYPE						
Well ID: <u>41</u>					Well Development						
Casing ID: <u>2</u> inches					Well Volume Approach Sampling						
					Low-Flow / Low Stress Sampling Other (Specify) <u>Low Flow</u>						
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>pre</u>	<u>1105</u>	<u>0</u>	<u>4.80</u>	<u>0</u>	<u>14.2</u>	<u>7.14</u>	<u>1120</u>	<u>0.51</u>	<u>33.80</u>	<u>-95.10</u>	<u>clear</u>
<u>purge</u>	<u>1110</u>				<u>14.1</u>	<u>7.15</u>	<u>1124</u>	<u>0.33</u>	<u>31.87</u>	<u>-103.5</u>	<u>clear</u>
	<u>1115</u>				<u>14.0</u>	<u>7.17</u>	<u>1126</u>	<u>0.22</u>	<u>53.10</u>	<u>-108.2</u>	<u>murky</u>
	<u>1120</u>				<u>14.0</u>	<u>7.18</u>	<u>1126</u>	<u>0.19</u>	<u>71.22</u>	<u>-109.6</u>	<u>murky</u>
	<u>1125</u>				<u>14.0</u>	<u>7.18</u>	<u>1128</u>	<u>0.17</u>	<u>93.83</u>	<u>-110.6</u>	<u>clear</u>
	<u>1130</u>				<u>13.8</u>	<u>7.18</u>	<u>1126</u>	<u>0.15</u>	<u>98.19</u>	<u>-111.1</u>	<u>clear</u>
	<u>1135</u>				<u>13.9</u>	<u>7.19</u>	<u>1128</u>	<u>0.14</u>	<u>24.59</u>	<u>-111.7</u>	<u>clear</u>
	<u>1140</u>				<u>13.9</u>	<u>7.18</u>	<u>1127</u>	<u>0.13</u>	<u>23.65</u>	<u>-112.7</u>	<u>clear</u>
<u>sample</u>	<u>1145</u>	<u>2</u>	<u>4.83</u>	<u>0.03</u>	<u>14.0</u>	<u>7.19</u>	<u>1128</u>	<u>0.12</u>	<u>24.03</u>	<u>-112.3</u>	<u>clear</u>
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / <u>Clear</u> / <u>No Color</u> / <u>No odor</u>								Cond - Actual Conductivity			
								ORP - Oxidation-Reduction Potential SEC - Specific Electrical			
								FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units			

sampled @ 1145

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermillion</u>		Client: <u>Vistra</u>									
Project Number: <u>2024.0099</u>		Task #: _____		Start Date: <u>5/7/2024</u>		Time: <u>1310</u>					
Field Personnel: <u>L. Filewicz - A. Savage</u>		Finish Date: <u>5/7/24</u>		Time: <u>1335</u>							
WELL INFORMATION				EVENT TYPE							
Well ID: <u>17</u> Casing ID: <u>2</u> inches				Well Development Well Volume Approach Sampling				Low-Flow / Low Stress Sampling Other (Specify): <u>Low Flow</u>			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>pre</u>	<u>1310</u>	<u>0</u>	<u>37.63</u>	<u>0</u>	<u>13.6</u>	<u>6.67</u>	<u>2043</u>	<u>5.65</u>	<u>54.55</u>	<u>46.6</u>	<u>clear</u>
<u>purge</u>	<u>1315</u>				<u>13.3</u>	<u>6.64</u>	<u>2030</u>	<u>3.96</u>	<u>64.55</u>	<u>65.6</u>	<u>clear</u>
	<u>1320</u>				<u>13.3</u>	<u>6.64</u>	<u>2021</u>	<u>3.59</u>	<u>25.62</u>	<u>80.1</u>	<u>clear</u>
	<u>1325</u>				<u>13.4</u>	<u>6.64</u>	<u>2018</u>	<u>3.43</u>	<u>20.99</u>	<u>90.3</u>	<u>clear</u>
	<u>1330</u>				<u>13.4</u>	<u>6.64</u>	<u>2017</u>	<u>3.36</u>	<u>20.71</u>	<u>87.6</u>	<u>clear</u>
<u>sample</u>	<u>1335</u>	<u>2.5</u>	<u>39.25</u>	<u>1.62</u>	<u>13.4</u>	<u>6.64</u>	<u>2017</u>	<u>3.37</u>	<u>20.89</u>	<u>87.1</u>	<u>clear</u>
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / <u>Clear</u> / <u>No Color</u> / <u>No odor</u>								Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units			

Sampled @ 1335
well went dry - sampled TOTAL metals & TDS on 5/7/24

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion</u>		Client: <u>Vistra</u>									
Project Number: <u>2024.0099</u>		Task #:		Start Date: <u>5 / 8 /2024</u>		Time: <u>0920</u>					
Field Personnel: <u>L. Filewicz / A. Savage</u>		Finish Date: <u>5/8/2024</u>		Time: <u>0950</u>							
WELL INFORMATION				EVENT TYPE							
Well ID: <u>4</u> Casing ID: <u>2</u> inches				Well Development Well Volume Approach Sampling				Low-Flow / Low Stress Sampling Other (Specify) <u>Low Flow</u>			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	0920	0	7.10	0	12.5	7.72	548	0.55	5.63	-128.9	clear
purge	0925		7		12.5	7.72	546	0.33	7.48	-135.1	clear
	0930				12.4	7.72	546	0.28	6.30	-136.8	clear
	0935				12.4	7.72	545	0.26	5.75	-138.0	clear
	0940				12.5	7.72	545	0.24	4.85	-138.7	clear
sample	0945				12.6	7.72	545	0.21	4.33	-139.6	clear
	0950	3.	8.94	1.84	12.6	7.72	545	0.20	3.62	-140.1	clear
								0.19			
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / Clear / No Color / No odor								Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units			

Sampled @ 0950

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermillion</u>		Client: <u>Vistra</u>									
Project Number: <u>2024.0099</u>		Task #: _____		Start Date: <u>5 / 8 /2024</u>		Time: <u>0805</u>					
Field Personnel: <u>L. Filewicz - A. Savage</u>		Finish Date: <u>5/8/24</u>		Time: <u>0830</u>							
WELL INFORMATION				EVENT TYPE							
Well ID: <u>38</u>				Well Development				Low-Flow / Low Stress Sampling Other			
Casing ID: <u>2</u> inches				Well Volume Approach Sampling				(Specify) <u>Low Flow</u>			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>Pre</u>	<u>0810</u>	<u>0</u>	<u>3.39</u>	<u>0</u>	<u>12.3</u>	<u>7.08</u>	<u>949</u>	<u>1.95</u>	<u>51.82</u>	<u>-94.9</u>	<u>clear</u>
<u>purge</u>	<u>0810</u>				<u>12.2</u>	<u>7.06</u>	<u>958</u>	<u>2.20</u>	<u>21.4</u>	<u>-109.3</u>	<u>clear</u>
	<u>0815</u>				<u>12.2</u>	<u>7.06</u>	<u>947</u>	<u>1.54</u>	<u>20.62</u>	<u>-109.3</u>	<u>clear</u>
	<u>0820</u>				<u>12.3</u>	<u>7.06</u>	<u>957</u>	<u>1.56</u>	<u>22.03</u>	<u>-109.0</u>	<u>clear</u>
	<u>0825</u>				<u>12.4</u>	<u>7.06</u>	<u>958</u>	<u>1.61</u>	<u>22.98</u>	<u>-108.0</u>	<u>clear</u>
<u>sample</u>	<u>0830</u>	<u>3</u>	<u>3.37</u>	<u>0.2</u>	<u>12.4</u>	<u>7.06</u>	<u>957</u>	<u>1.60</u>	<u>22.54</u>	<u>-107.0</u>	<u>clear</u>
NOTES (continued)							ABBREVIATIONS				
<u>Bladder Pump</u> / <u>Clear</u> / <u>No Color</u> / <u>No odor</u>							Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing ne - Conductance SU - Standard Units				

sampled @ 0830

PROJECT INFORMATION

Dedicated Tubing & pump in well; not connected

08/05/24 (Rev. 1)

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion</u>		Client: <u>Vistra</u>									
Project Number: <u>2024.0099</u>		Task #: _____		Start Date: <u>5/7/2024</u>		Time: <u>1025</u>					
Field Personnel: <u>L. Filewicz & A. Savage</u>		Finish Date: <u>5/7/24</u>		Time: <u>1055</u>							
WELL INFORMATION				EVENT TYPE							
Well ID: <u>007R</u> Casing ID: <u>2</u> inches				Well Development Well Volume Approach Sampling				Low-Flow / Low Stress Sampling Other (Specify): <u>Low Flow</u>			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>Pre</u>	<u>1025</u>	<u>0</u>	<u>23.70</u>	<u>0</u>	<u>15.1</u>	<u>7.35</u>	<u>21083</u>	<u>1.06</u>	<u>30.32</u>	<u>5.5</u>	<u>Brown</u>
	<u>1030</u>				<u>15.0</u>	<u>7.38</u>	<u>21090</u>	<u>0.86</u>	<u>9.68</u>	<u>-29.3</u>	<u>murky</u>
	<u>1035</u>				<u>15.0</u>	<u>7.35</u>	<u>21085</u>	<u>0.98</u>	<u>8.97</u>	<u>-26.7</u>	<u>murky</u>
	<u>1040</u>				<u>15.0</u>	<u>7.36</u>	<u>21090</u>	<u>.96</u>	<u>7.99</u>	<u>-29.4</u>	<u>murky</u>
	<u>1045</u>				<u>15.0</u>	<u>7.36</u>	<u>21088</u>	<u>1.00</u>	<u>7.72</u>	<u>-33.6</u>	<u>clear</u>
	<u>1050</u>				<u>15.0</u>	<u>7.36</u>	<u>21091</u>	<u>1.00</u>	<u>7.30</u>	<u>-32.9</u>	<u>clear</u>
	<u>1055</u>	<u>4</u>	<u>23.43</u>	<u>0.27</u>	<u>15.0</u>	<u>7.36</u>	<u>21094</u>	<u>1.01</u>	<u>7.52</u>	<u>-31.4</u>	<u>clear</u>
NOTES (continued)							ABBREVIATIONS				
Bladder Pump / Clear / No Color / No odor <u>Brown/murky</u> <u>peristaltic pump</u>							Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical				
							FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units				

Sampled @ 1055

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Client: Visira
Project Number: 2024.0099 Task #: 5/7/2024 Time: 0820
Field Personnel: L. Filewic - A. Savage Finish Date: 5/7/24 Time: 0905

WELL INFORMATION

Well ID: 34
Casing ID: 2 inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify) Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	0820	0	12.96	0	12.3	7.16	911	0.83	985.34	-97.5	clear
purge	0825				12.4	7.16	912	0.77	858.11	-98.0	clear
	0830				12.3	7.16	906	0.78	834.7	-97.3	clear
	0835				12.4	7.16	910	0.77	635.21	-99.2	clear
	0840				12.3	7.16	908	0.71	111.19	-96.9	clear
	0845				12.3	7.16	909	0.61	109.92	-96.7	clear
	0850				12.4	7.15	909	.51	68.12	-96.5	clear
	0855				12.3	7.15	911	.51	67.77	-96.3	clear
↓	1000 0900				12.2	7.15	908	.49	68.53	-96.1	clear
sample	0905	4	12.98	0.02	12.2	7.15	909	.47	67.36	-96.1	clear

NOTES (continued)

ABBREVIATIONS

Bladder Pump / Clear / No Color / No odor

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOT - Feet Below Top of Casing na - Conductance SU - Standard Units

Sampled @ 0905 / 5/7/24
Time / DATE

W

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion</u>			Client: <u>Vistra</u>								
Project Number: <u>2024.0099</u>			Task #: _____			Start Date: <u>5 / 7 / 2024</u>			Time: <u>1500</u>		
Field Personnel: <u>L. Filewicz - A. Savage</u>			Finish Date: _____			Time: <u>1525</u>					
WELL INFORMATION					EVENT TYPE						
Well ID: <u>22</u>					Well Development						
Casing ID: <u>2</u> inches					Well Volume Approach Sampling						
					Low-Flow / Low Stress Sampling Other (Specify) <u>Low Flow</u>						
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>pre</u>	<u>1500</u>	<u>0</u>	<u>54.52</u>	<u>0</u>	<u>15.0</u>	<u>7.35</u>	<u>777</u>	<u>2.04</u>	<u>4.13</u>	<u>-65.8</u>	<u>clear</u>
<u>purge</u>	<u>1505</u>				<u>15.1</u>	<u>7.36</u>	<u>777</u>	<u>0.76</u>	<u>4.30</u>	<u>-65.8</u>	<u>clear</u>
	<u>1510</u>				<u>15.2</u>	<u>7.36</u>	<u>777</u>	<u>0.63</u>	<u>4.00</u>	<u>-65.9</u>	<u>clear</u>
	<u>1515</u>				<u>15.0</u>	<u>7.36</u>	<u>779</u>	<u>0.89</u>	<u>2.59</u>	<u>-67.8</u>	<u>clear</u>
	<u>1520</u>				<u>15.1</u>	<u>7.36</u>	<u>780</u>	<u>0.93</u>	<u>3.17</u>	<u>-67.6</u>	<u>clear</u>
<u>sample</u>	<u>1525</u>	<u>4</u>	<u>57.11</u>	<u>0.39</u>	<u>15.2</u>	<u>7.36</u>	<u>780</u>	<u>0.95</u>	<u>3.21</u>	<u>-67.1</u>	<u>clear</u>
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / <u>Clear</u> / <u>No Color</u> / <u>No odor</u>								Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units			

sampled @ 1525

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermillion</u>		Client: <u>Visira</u>									
Project Number:		Task #:		Start Date: <u>5/8/2024</u>		Time: <u>1510</u>					
Field Personnel: <u>L. Filewicz / A. Savage</u>		Finish Date: <u>Same</u>		Time: <u>1540</u>							
WELL INFORMATION				EVENT TYPE							
Well ID: <u>42</u> Casing ID: <u>210</u> inches				Well Development Well Volume Approach Sampling				<u>Low-Flow</u> / Low Stress Sampling Other (Specify) Low Flow			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>Pre</u>	<u>1510</u>		<u>24.47</u>		<u>19.9</u>	<u>17.21</u>	<u>4.4</u>	<u>-42.76</u>	<u>25.99</u>	<u>113.17</u>	
<u>Purge</u>	<u>1515</u>				<u>12.6</u>	<u>17.53</u>	<u>1009</u>	<u>-2359.48</u>	<u>35.10</u>	<u>-91.7</u>	
	<u>1520</u>				<u>12.9</u>	<u>17.52</u>	<u>1030</u>	<u>-2659.12</u>	<u>37.10</u>	<u>-108.9</u>	
	<u>1525</u>				<u>12.8</u>	<u>17.52</u>	<u>1025</u>	<u>-2681.11</u>	<u>28.72</u>	<u>-119.2</u>	
	<u>1530</u>				<u>12.6</u>	<u>17.53</u>	<u>1023</u>	<u>-2869.31</u>	<u>23.70</u>	<u>-121.2</u>	
	<u>1535</u>				<u>12.7</u>	<u>17.53</u>	<u>1020</u>	<u>-2838.97</u>	<u>22.91</u>	<u>-120.9</u>	
	<u>1540</u>		<u>24.56</u>								
NOTES (continued)								ABBREVIATIONS			
<u>Bladder Pump / Clear / No Color / No odor</u>								Cond. - Actual Conductivity			
								ORP - Oxidation-Reduction Potential SEC - Specific Electrical			
								FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units			

PROJECT INFORMATION

08/05/24 (Rev. 1)

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermillion</u>		Client: <u>Vistra</u>		Project Number: _____		Task #: _____		Start Date: <u>5 / 8 / 2024</u>		Time: <u>1250</u>	
Field Personnel: <u>L. Filewicz - A. Savage</u>		Finish Date: <u>Same</u>		Time: <u>1305</u>							
WELL INFORMATION				EVENT TYPE							
Well ID: <u>35P</u> Casing ID: <u>2.1</u> inches				Well Development Well Volume Approach Sampling				<u>Low-Flow</u> / Low Stress Sampling Other (Specify): Low Flow			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>Pre</u>	<u>1250</u>		<u>11.75</u>		<u>14.3</u>	<u>17.47</u>	<u>4913</u>	<u>3621.20</u>	<u>11.51</u>	<u>-44.4</u>	
<u>Purge</u>	<u>1255</u>				<u>14.6</u>	<u>17.46</u>	<u>4905</u>	<u>3141.70</u>	<u>10.76</u>	<u>-58.6</u>	
	<u>1300</u>				<u>14.9</u>	<u>17.45</u>	<u>4948</u>	<u>3168.88</u>	<u>11.41</u>	<u>-59.3</u>	
	<u>1305</u>	<u>LG</u>	<u>17.65</u>		<u>15.1</u>	<u>17.44</u>	<u>4841</u>	<u>3126.40</u>	<u>12.60</u>	<u>-51.7</u>	
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / <u>Clear</u> / <u>No Color</u> / <u>No odor</u> <u>Peristaltic Pump</u>								Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units			

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion</u>		Client: <u>Vistra</u>		Project Number: _____		Task #: _____		Start Date: <u>5/8</u> /2024		Time: <u>1200</u>	
Field Personnel: <u>L. Filewicz A. Savage</u>		Finish Date: <u>Same</u>		Time: <u>12.25</u>							
WELL INFORMATION				EVENT TYPE							
Well ID: <u>10</u> Casing ID: <u>2"</u> inches				Well Development Well Volume Approach Sampling <u>Low-Flow</u> Low Stress Sampling Other (Specify): Low Flow							
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>Pre</u>	<u>1200</u>		<u>49.10</u>		<u>15.5</u>	<u>17.42</u>	<u>1455</u>	<u>1642</u>	<u>94.72</u>	<u>168.7</u>	
<u>Purge</u>	<u>1205</u>				<u>15.0</u>	<u>17.44</u>	<u>1461</u>	<u>192633</u>	<u>39.42</u>	<u>88.8</u>	
	<u>1210</u>				<u>15.0</u>	<u>17.44</u>	<u>1456</u>	<u>1955.70</u>	<u>9.83</u>	<u>78.0</u>	
	<u>1215</u>				<u>14.8</u>	<u>17.45</u>	<u>1459</u>	<u>195770</u>	<u>8.42</u>	<u>79.1</u>	
	<u>1220</u>				<u>14.7</u>	<u>17.45</u>	<u>1459</u>	<u>1963.70</u>	<u>7.74</u>	<u>78.7</u>	
	<u>1225</u>	<u>1.53</u>	<u>53.50</u>								
NOTES (continued)							ABBREVIATIONS				
Bladder Pump / Clear / No Color / No odor							Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units				

Filled 4 & 3/4 Bottles.
Well went DRY

PROJECT INFORMATION

No Samples No Water
12.45 Bottom 12.01 Water

PROJECT INFORMATION

08/05/24 (Rev. 1)

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Vermillion		Client: Vistra									
Project Number: 822 24-0099		Task #:		Start Date: 5 / 8 /2024		Time: 0815					
Field Personnel: L. Filewicz - A. Savage		Finish Date: Same		Time: 0830							
WELL INFORMATION				EVENT TYPE							
Well ID: 71P				Well Development Well Volume Approach Sampling							
Casing ID: 2" inches											
				Low-Flow / Low Stress Sampling Other (Specify) Low Flow							
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	815		38.82		13.6	17.49	3886	2407.48	33.71	146.2	
Purge	820				13.4	17.50	3881	2487.20	32.29	146.2	
	825				13.8	17.49	3890	2900.20	31.10	144.5	
	830	1.5G			14.0	17.48	3839	2752	31.40	137.2	
NOTES (continued)							ABBREVIATIONS				
Bladder Pump / Clear / No Color / No odor							Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na Conductance SU - Standard Units				

Re-Install Bladder Pump.
Water Filled YSI / STABLE Readings
Fill METALS Bottle & well went Dry

PROJECT INFORMATION

Well is Dry.
no sampling

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Vermillion		Client: Vistra		Project Number:		Task #:		Start Date: 5/7/2024		Time: 1550	
Field Personnel: L. Filewicz - A. Savage		Finish Date: same								Time: 1625	
WELL INFORMATION				EVENT TYPE							
Well ID: 700				Well Development				Low-Flow / Low Stress Sampling Other			
Casing ID: 2" inches				Well Volume Approach Sampling				(Specify): Low Flow			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre-Purge	1550		41.04		13.6	17.49	8460	-3112.60	229.20	57.8	Rusty
Purge	1555				15.0	17.44	3136	-2850.7	275.30	68.7	
	1600				17.1	17.36	3110	-2596.70	216.18	86.4	
	1605				18.2	17.33	3068	-2311.50	196.40	100.7	
	1610				18.2	17.33	2972	-2188.20	161.70	110.7	
	1615				18.2	17.33	2942	-2151.22	151.70	114.4	
	1620				18.0	17.34	2871	-2110.22	149.80	120.2	
	1625		43.43		14.0	17.35	2810	-2109.27	148.70	121.3	
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / Bladder Pump / No odor								Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units			

Re Installed Pipe work & Bladder
seems to be Pumping water

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 24-0099 Task #: Start Date: 5 / 7 /2024 Time: 1205
Field Personnel: L. Filewicz - A. Savage Finish Date: Same Time: 1245

WELL INFORMATION

Well ID: 705
Casing ID: 2" inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify) Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Vdume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1205		9.01		12.1	17.55	1265	3012.10	19.62	67.2	Clear
	1210				11.9	17.56	1258	3240.10	71.56	70.1	
	1215				11.3	17.58	1258	3435	76.10	71.5	
	1220				11.6	17.57	1260	3484	117.00	73.1	
	1225				11.5	17.55	1257	3568.6	113.22	76.2	
	1230				11.5	17.57	1256	3512.92	120.91	76.1	
	1235				11.0	17.59	1256	3593.08	121.42	77.7	
	1240				11.0	17.59	1256	3601.71	121.99	79.7	
	1245	3.56L	9.23		10.9	17.59	1261	31.85.72	122.40	81.4	
	1250										

NOTES (continued)

Bladder Pump / Clear / No Color / No odor

ABBREVIATIONS

Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTGC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Vermillion		Client: Vistra		Project Number: 24-0699		Task #:		Start Date: 5/7/2024		Time: 1400	
Field Personnel: L. Filewicz - A. Savage		Finish Date: Same								Time: 1415	
WELL INFORMATION				EVENT TYPE							
Well ID: 71.5 Casing ID: 2 inches				Well Development Well Volume Approach Sampling				Low-Flow / Low Stress Sampling Other (Specify): Low Flow			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1400		9.30		14.3	17.47	821	2366.17	15.02	81.6	
Purge	1405				15.8	17.41	831	2539.19	5.37	104.5	
	1410				16.3	17.40	843	2611.12	5.34	108.2	
	1415	1.5	9.27		16.5	17.39	841	2606.99	5.22	106.5	
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / Clear / No Color / No odor								Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units			

Peristaltic Pump used.

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermillion</u>		Client: <u>Visira</u>									
Project Number: <u>24-0099</u>		Task #:		Start Date: <u>5/7/2024</u>		Time: <u>900</u>					
Field Personnel: <u>L. Filewicz - A. Savage</u>		Finish Date: <u>Same</u>		Time: <u>0915</u>							
WELL INFORMATION				EVENT TYPE							
Well ID: <u>20</u> Casing ID: <u>2"</u> inches				Well Development Well Volume Approach Sampling <u>Low-Flow</u> Low Stress Sampling Other (Specify) Low Flow							
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>Pre</u>	<u>0900</u>		<u>13.9</u>		<u>11.5</u>	<u>17.57</u>	<u>716</u>	<u>-3658</u>	<u>16.50</u>	<u>22.3</u>	<u>clear</u>
	<u>0905</u>				<u>11.4</u>	<u>17.58</u>	<u>726</u>	<u>-3723</u>	<u>9.56</u>	<u>9.1</u>	
	<u>0910</u>				<u>11.4</u>	<u>17.59</u>	<u>727</u>	<u>-3726</u>	<u>10.20</u>	<u>9.7</u>	
	<u>0915</u>	<u>2 GAL</u>	<u>13.1</u>		<u>11.4</u>	<u>17.58</u>	<u>730</u>	<u>3735</u>	<u>10.71</u>	<u>10.1</u>	
	<u>0920</u>										
NOTES (continued)								ABBREVIATIONS			
<u>Bladder Pump</u> / <u>Clear</u> / <u>No Color</u> / <u>No odor</u>								Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BIOC - Feet Below Top of Casing na - Conductance SU - Standard Units			

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion</u>		Client: <u>Visira</u>									
Project Number: <u>24-0099</u>		Task #:		Start Date: <u>5 / 7 /2024</u>		Time: <u>1025</u>					
Field Personnel: <u>L. Filewicz - A. Savage</u>		Finish Date: <u>Same</u>		Time: <u>1055</u>							
WELL INFORMATION				EVENT TYPE							
Well ID: <u>021</u> Casing ID: <u>2"</u> inches				Well Development Well Volume Approach Sampling				Low-Flow / Low Stress Sampling Other (Specify): Low Flow			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>Pre</u>	<u>10 25</u>		<u>91.29</u>		<u>14.0</u>	<u>17.48</u>	<u>913</u>	<u>-2423.48</u>	<u>77.84</u>	<u>-131.2</u>	<u>Clear</u>
<u>Burge</u>	<u>10 30</u>				<u>14.1</u>	<u>17.48</u>	<u>817</u>	<u>-2836.0</u>	<u>88.48</u>	<u>-152.3</u>	
	<u>10 35</u>				<u>14.1</u>	<u>17.48</u>	<u>780</u>	<u>-2592.2</u>	<u>97.48</u>	<u>-162.7</u>	
	<u>10 40</u>				<u>14.2</u>	<u>17.47</u>	<u>766</u>	<u>-2760.0</u>	<u>2427</u>	<u>-155.8</u>	
	<u>10 45</u>				<u>14.0</u>	<u>17.48</u>	<u>760</u>	<u>-2771.50</u>	<u>13.39</u>	<u>-182.7</u>	
	<u>10 50</u>				<u>14.1</u>	<u>17.48</u>	<u>758</u>	<u>-2988.6</u>	<u>10.22</u>	<u>-174.5</u>	
	<u>10 55</u>	<u>3 GAL</u>	<u>96.91</u>		<u>14.0</u>	<u>17.48</u>	<u>758</u>	<u>-2941.6</u>	<u>8.17</u>	<u>-179.8</u>	
NOTES (continued)								ABBREVIATIONS			
<u>Bladder Pump</u> / <u>Clear</u> / <u>No Color</u> / <u>No odor</u>								Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units			

ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 2, 2024

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
16B	UU	E005	Antimony, total	mg/L	--	--	--	--	--	0.00500
16B	UU	E005	Arsenic, total	mg/L	--	--	--	--	--	0.001
16B	UU	E005	Barium, total	mg/L	--	--	--	--	--	0.0820
16B	UU	E005	Beryllium, total	mg/L	--	--	--	--	--	0.001
16B	UU	E005	Boron, total	mg/L	--	--	--	--	--	0.430
16B	UU	E005	Cadmium, total	mg/L	--	--	--	--	--	0.001
16B	UU	E005	Chloride, total	mg/L	--	--	--	--	--	20.4
16B	UU	E005	Chromium, total	mg/L	--	--	--	--	--	0.00400
16B	UU	E005	Cobalt, total	mg/L	--	--	--	--	--	0.0900
16B	UU	E005	Fluoride, total	mg/L	--	--	--	--	--	0.430
16B	UU	E005	Lead, total	mg/L	--	--	--	--	--	0.001
16B	UU	E005	Lithium, total	mg/L	--	--	--	--	--	0.0300
16B	UU	E005	Mercury, total	mg/L	--	--	--	--	--	0.0002
16B	UU	E005	Molybdenum, total	mg/L	--	--	--	--	--	0.00400
16B	UU	E005	pH (field)	SU	--	--	--	--	--	6.3/7.8
16B	UU	E005	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00
16B	UU	E005	Selenium, total	mg/L	--	--	--	--	--	0.001
16B	UU	E005	Sulfate, total	mg/L	--	--	--	--	--	338
16B	UU	E005	Thallium, total	mg/L	--	--	--	--	--	0.002
16B	UU	E005	Total Dissolved Solids	mg/L	--	--	--	--	--	1,080
16A	BCU	E005	Antimony, total	mg/L	04/01/21 - 06/06/24	12	92	CI around median	0.001	0.00500
16A	BCU	E005	Arsenic, total	mg/L	04/01/21 - 06/06/24	12	0	CI around geomean	0.00125	0.001
16A	BCU	E005	Barium, total	mg/L	04/01/21 - 06/06/24	12	0	CI around mean	0.254	0.0820
16A	BCU	E005	Beryllium, total	mg/L	04/01/21 - 06/06/24	12	100	All ND - Last	0.001	0.001
16A	BCU	E005	Boron, total	mg/L	04/01/21 - 06/06/24	12	0	CI around mean	0.682	0.430
16A	BCU	E005	Cadmium, total	mg/L	04/01/21 - 06/06/24	12	100	All ND - Last	0.0005	0.001
16A	BCU	E005	Chloride, total	mg/L	04/01/21 - 06/06/24	12	0	CI around mean	124	20.4

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
16A	BCU	E005	Chromium, total	mg/L	04/01/21 - 06/06/24	12	83	CB around T-S line	0.0015	0.00400
16A	BCU	E005	Cobalt, total	mg/L	04/01/21 - 06/06/24	12	83	CI around median	0.001	0.0900
16A	BCU	E005	Fluoride, total	mg/L	04/01/21 - 06/06/24	12	8	CI around mean	0.669	0.430
16A	BCU	E005	Lead, total	mg/L	04/01/21 - 06/06/24	12	83	CI around median	0.0005	0.001
16A	BCU	E005	Lithium, total	mg/L	04/01/21 - 06/06/24	12	0	CB around linear reg	0.0306	0.0300
16A	BCU	E005	Mercury, total	mg/L	04/01/21 - 06/06/24	12	100	All ND - Last	0.0002	0.0002
16A	BCU	E005	Molybdenum, total	mg/L	04/01/21 - 06/06/24	12	100	All ND - Last	0.005	0.00400
16A	BCU	E005	pH (field)	SU	04/01/21 - 06/06/24	17	0	CI around mean	7.2/7.5	6.3/7.8
16A	BCU	E005	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 06/06/24	11	0	CI around mean	0.52	7.00
16A	BCU	E005	Selenium, total	mg/L	04/01/21 - 06/06/24	12	100	All ND - Last	0.0025	0.001
16A	BCU	E005	Sulfate, total	mg/L	04/01/21 - 06/06/24	17	5	CI around mean	14	338
16A	BCU	E005	Thallium, total	mg/L	04/01/21 - 06/06/24	12	100	All ND - Last	0.002	0.002
16A	BCU	E005	Total Dissolved Solids	mg/L	04/01/21 - 06/06/24	17	0	CI around mean	649	1,080
35S	UU	E005	Antimony, total	mg/L	--	--	--	--	--	0.00500
35S	UU	E005	Arsenic, total	mg/L	--	--	--	--	--	0.001
35S	UU	E005	Barium, total	mg/L	--	--	--	--	--	0.0820
35S	UU	E005	Beryllium, total	mg/L	--	--	--	--	--	0.001
35S	UU	E005	Boron, total	mg/L	--	--	--	--	--	0.430
35S	UU	E005	Cadmium, total	mg/L	--	--	--	--	--	0.001
35S	UU	E005	Chloride, total	mg/L	--	--	--	--	--	20.4
35S	UU	E005	Chromium, total	mg/L	--	--	--	--	--	0.00400
35S	UU	E005	Cobalt, total	mg/L	--	--	--	--	--	0.0900
35S	UU	E005	Fluoride, total	mg/L	--	--	--	--	--	0.430
35S	UU	E005	Lead, total	mg/L	--	--	--	--	--	0.001
35S	UU	E005	Lithium, total	mg/L	--	--	--	--	--	0.0300
35S	UU	E005	Mercury, total	mg/L	--	--	--	--	--	0.0002
35S	UU	E005	Molybdenum, total	mg/L	--	--	--	--	--	0.00400

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
35S	UU	E005	pH (field)	SU	--	--	--	--	--	6.3/7.8
35S	UU	E005	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00
35S	UU	E005	Selenium, total	mg/L	--	--	--	--	--	0.001
35S	UU	E005	Sulfate, total	mg/L	--	--	--	--	--	338
35S	UU	E005	Thallium, total	mg/L	--	--	--	--	--	0.002
35S	UU	E005	Total Dissolved Solids	mg/L	--	--	--	--	--	1,080
35D	BCU	E005	Antimony, total	mg/L	04/01/21 - 06/06/24	13	77	CI around median	0.001	0.00500
35D	BCU	E005	Arsenic, total	mg/L	04/01/21 - 06/06/24	13	15	CI around geomean	0.00169	0.001
35D	BCU	E005	Barium, total	mg/L	04/01/21 - 06/06/24	13	0	CI around median	0.026	0.0820
35D	BCU	E005	Beryllium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.001	0.001
35D	BCU	E005	Boron, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	1.67	0.430
35D	BCU	E005	Cadmium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0005	0.001
35D	BCU	E005	Chloride, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	314	20.4
35D	BCU	E005	Chromium, total	mg/L	04/01/21 - 06/06/24	13	77	CI around median	0.0015	0.00400
35D	BCU	E005	Cobalt, total	mg/L	04/01/21 - 06/06/24	13	46	CI around median	0.001	0.0900
35D	BCU	E005	Fluoride, total	mg/L	04/01/21 - 06/06/24	13	8	CI around mean	0.649	0.430
35D	BCU	E005	Lead, total	mg/L	04/01/21 - 06/06/24	13	54	CI around median	0.0005	0.001
35D	BCU	E005	Lithium, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	0.115	0.0300
35D	BCU	E005	Mercury, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0002	0.0002
35D	BCU	E005	Molybdenum, total	mg/L	04/01/21 - 06/06/24	13	31	CB around linear reg	-0.00152	0.00400
35D	BCU	E005	pH (field)	SU	04/01/21 - 06/06/24	17	0	CI around median	7.3/7.7	6.3/7.8
35D	BCU	E005	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 06/06/24	12	0	CI around mean	0.382	7.00
35D	BCU	E005	Selenium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0025	0.001
35D	BCU	E005	Sulfate, total	mg/L	04/01/21 - 06/06/24	18	0	CI around mean	1,120	338
35D	BCU	E005	Thallium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.002	0.002
35D	BCU	E005	Total Dissolved Solids	mg/L	04/01/21 - 06/06/24	18	0	CI around mean	2,750	1,080
70S	UU	E005	Antimony, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.003	0.00500

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
70S	UU	E005	Arsenic, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.001	0.001
70S	UU	E005	Barium, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	0.0165	0.0820
70S	UU	E005	Beryllium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.001	0.001
70S	UU	E005	Boron, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	0.375	0.430
70S	UU	E005	Cadmium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0005	0.001
70S	UU	E005	Chloride, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	12.7	20.4
70S	UU	E005	Chromium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.005	0.00400
70S	UU	E005	Cobalt, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.001	0.0900
70S	UU	E005	Fluoride, total	mg/L	04/01/21 - 06/06/24	13	8	CI around median	0.14	0.430
70S	UU	E005	Lead, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0005	0.001
70S	UU	E005	Lithium, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	0.0116	0.0300
70S	UU	E005	Mercury, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0002	0.0002
70S	UU	E005	Molybdenum, total	mg/L	04/01/21 - 06/06/24	13	31	CI around median	0.005	0.00400
70S	UU	E005	pH (field)	SU	04/01/21 - 06/06/24	13	0	CI around mean	6.9/7.1	6.3/7.8
70S	UU	E005	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 06/06/24	12	0	CI around mean	0.0788	7.00
70S	UU	E005	Selenium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0025	0.001
70S	UU	E005	Sulfate, total	mg/L	04/01/21 - 06/06/24	13	0	CB around linear reg	459	338
70S	UU	E005	Thallium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.002	0.002
70S	UU	E005	Total Dissolved Solids	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	1,210	1,080
70D	BCU	E005	Antimony, total	mg/L	04/01/21 - 06/06/24	13	85	CI around median	0.001	0.00500
70D	BCU	E005	Arsenic, total	mg/L	04/01/21 - 06/06/24	13	62	CI around median	0.001	0.001
70D	BCU	E005	Barium, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	0.462	0.0820
70D	BCU	E005	Beryllium, total	mg/L	04/01/21 - 06/06/24	13	77	CI around median	0.001	0.001
70D	BCU	E005	Boron, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	1.19	0.430
70D	BCU	E005	Cadmium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0005	0.001
70D	BCU	E005	Chloride, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	539	20.4
70D	BCU	E005	Chromium, total	mg/L	04/01/21 - 06/06/24	13	38	CI around geomean	0.00276	0.00400

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
70D	BCU	E005	Cobalt, total	mg/L	04/01/21 - 06/06/24	13	8	CI around geomean	0.00168	0.0900
70D	BCU	E005	Fluoride, total	mg/L	04/01/21 - 06/06/24	13	8	CB around linear reg	0.257	0.430
70D	BCU	E005	Lead, total	mg/L	04/01/21 - 06/06/24	13	15	CI around geomean	0.00129	0.001
70D	BCU	E005	Lithium, total	mg/L	04/01/21 - 06/06/24	13	0	CI around mean	0.0791	0.0300
70D	BCU	E005	Mercury, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.0002	0.0002
70D	BCU	E005	Molybdenum, total	mg/L	04/01/21 - 06/06/24	13	38	CB around linear reg	-0.0184	0.00400
70D	BCU	E005	pH (field)	SU	04/01/21 - 06/06/24	13	0	CI around mean	6.9/7.2	6.3/7.8
70D	BCU	E005	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 06/06/24	12	0	CI around mean	1.02	7.00
70D	BCU	E005	Selenium, total	mg/L	04/01/21 - 06/06/24	13	85	CI around median	0.001	0.001
70D	BCU	E005	Sulfate, total	mg/L	04/01/21 - 06/06/24	13	0	CB around linear reg	39.9	338
70D	BCU	E005	Thallium, total	mg/L	04/01/21 - 06/06/24	13	100	All ND - Last	0.002	0.002
70D	BCU	E005	Total Dissolved Solids	mg/L	04/01/21 - 06/06/24	13	0	CB around linear reg	1,350	1,080
71S	UU	E005	Antimony, total	mg/L	--	--	--	--	--	0.00500
71S	UU	E005	Arsenic, total	mg/L	--	--	--	--	--	0.001
71S	UU	E005	Barium, total	mg/L	--	--	--	--	--	0.0820
71S	UU	E005	Beryllium, total	mg/L	--	--	--	--	--	0.001
71S	UU	E005	Boron, total	mg/L	--	--	--	--	--	0.430
71S	UU	E005	Cadmium, total	mg/L	--	--	--	--	--	0.001
71S	UU	E005	Chloride, total	mg/L	--	--	--	--	--	20.4
71S	UU	E005	Chromium, total	mg/L	--	--	--	--	--	0.00400
71S	UU	E005	Cobalt, total	mg/L	--	--	--	--	--	0.0900
71S	UU	E005	Fluoride, total	mg/L	--	--	--	--	--	0.430
71S	UU	E005	Lead, total	mg/L	--	--	--	--	--	0.001
71S	UU	E005	Lithium, total	mg/L	--	--	--	--	--	0.0300
71S	UU	E005	Mercury, total	mg/L	--	--	--	--	--	0.0002
71S	UU	E005	Molybdenum, total	mg/L	--	--	--	--	--	0.00400
71S	UU	E005	pH (field)	SU	--	--	--	--	--	6.3/7.8

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
71S	UU	E005	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00
71S	UU	E005	Selenium, total	mg/L	--	--	--	--	--	0.001
71S	UU	E005	Sulfate, total	mg/L	--	--	--	--	--	338
71S	UU	E005	Thallium, total	mg/L	--	--	--	--	--	0.002
71S	UU	E005	Total Dissolved Solids	mg/L	--	--	--	--	--	1,080
71D	BCU	E005	Antimony, total	mg/L	--	--	--	--	--	0.00500
71D	BCU	E005	Arsenic, total	mg/L	--	--	--	--	--	0.001
71D	BCU	E005	Barium, total	mg/L	--	--	--	--	--	0.0820
71D	BCU	E005	Beryllium, total	mg/L	--	--	--	--	--	0.001
71D	BCU	E005	Boron, total	mg/L	--	--	--	--	--	0.430
71D	BCU	E005	Cadmium, total	mg/L	--	--	--	--	--	0.001
71D	BCU	E005	Chloride, total	mg/L	--	--	--	--	--	20.4
71D	BCU	E005	Chromium, total	mg/L	--	--	--	--	--	0.00400
71D	BCU	E005	Cobalt, total	mg/L	--	--	--	--	--	0.0900
71D	BCU	E005	Fluoride, total	mg/L	--	--	--	--	--	0.430
71D	BCU	E005	Lead, total	mg/L	--	--	--	--	--	0.001
71D	BCU	E005	Lithium, total	mg/L	--	--	--	--	--	0.0300
71D	BCU	E005	Mercury, total	mg/L	--	--	--	--	--	0.0002
71D	BCU	E005	Molybdenum, total	mg/L	--	--	--	--	--	0.00400
71D	BCU	E005	pH (field)	SU	--	--	--	--	--	6.3/7.8
71D	BCU	E005	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00
71D	BCU	E005	Selenium, total	mg/L	--	--	--	--	--	0.001
71D	BCU	E005	Sulfate, total	mg/L	--	--	--	--	--	338
71D	BCU	E005	Thallium, total	mg/L	--	--	--	--	--	0.002
71D	BCU	E005	Total Dissolved Solids	mg/L	--	--	--	--	--	1,080

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Notes:
- = no data available
Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value
HSU = hydrostratigraphic unit:
BCU = Bedrock Confining Unit
UU = Upper Unit
mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:
All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown
CB around T-S line = Confidence band around Thiel-Sen line
CB around linear reg = Confidence band around linear regression
CI around geomean = Confidence interval around the geometric mean
CI around mean = Confidence interval around the mean
CI around median = Confidence interval around the median
Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range
For pH, the values presented are the lower / upper limits of the background determination