



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

May 25, 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 1, 2024 sampling event at the Vermilion Power Plant New East Ash Pond, 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 GWPS.

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

As allowed in 35 I.A.C. § 845.650(e), an Alternative Source Demonstration (ASD) was submitted on December 1, 2023 for the GWPS exceedances of chloride, lithium, sulfate, and total dissolved solids (TDS) detected at compliance monitoring wells 35D and 70D during the Quarter 2, 2023 sampling event. The Illinois IEPA provided a written response on December 11, 2023 that did not concur with the ASD. A second ASD was submitted on May 8, 2024 for the GWPS exceedance of chloride at well 71D during the Quarter 4, 2023 sampling event. Exceedances of chloride, lithium, sulfate, and TDS were detected during the Quarter 1, 2024 sampling event in the same monitoring wells identified in the December 1, 2023 ASD.

A Corrective Measures Assessment (CMA) for the remaining GWPS exceedances of sulfate and TDS at compliance monitoring well 70S was initiated on December 10, 2023 in accordance with 35 I.A.C. § 845.660. GWPS exceedances for subsequent events will be incorporated into the CMA on a case-by-case basis, as opposed to generating a new CMA. As allowed in 35 I.A.C. § 845.650(e), an ASD will be evaluated for new detected exceedances of the GWPS and, if successfully completed, the ASD will be submitted to IEPA within 60 days of this transmittal.

Sincerely,

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

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

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 1, 2024, New East Ash Pond (NEAP), Vermilion Power Plant, Oakwood, Illinois

35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 1, 2024
NEW EAST ASH POND (NEAP), VERMILION POWER PLANT, OAKWOOD,
ILLINOIS

May 25, 2024

Samples were collected on February 20 and 21, 2024, and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on March 26, 2024.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 1, 2024 sampling event. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 1, 2024 sampling event. Monitoring well 71S had insufficient water to sample for this sampling event. Monitoring well 71D purged dry during sample collection. Monitoring wells 16B and 35S were dry; therefore, groundwater elevation data were not recorded and groundwater samples were not collected for this sampling event.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan¹ provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 1, 2024 groundwater monitoring data were evaluated for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

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

As allowed in 35 I.A.C. § 845.650(e), an Alternative Source Demonstration² (ASD) was submitted on December 1, 2023 for the GWPS exceedances of chloride, lithium, sulfate, and total dissolved solids (TDS) detected at compliance monitoring wells 35D and 70D during the Quarter 2, 2023 sampling event. The Illinois Environmental Protection Agency (IEPA) provided a written response on December 11, 2023 that did not concur with the ASD³. A second ASD⁴ was submitted on May 8, 2024 for the GWPS exceedance of chloride at well 71D during the Quarter 4, 2023 sampling event. Exceedances of chloride, lithium, sulfate, and TDS were detected during the Quarter 1, 2024 sampling event in the same monitoring wells identified in the December 1, 2023 ASD.

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, Oakwood, Illinois, 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- W1838000002-04, Alternative Source Demonstration (ASD) Submittal. December 28, 2023.

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

A Corrective Measures Assessment (CMA) for the remaining GWPS exceedances of sulfate and TDS at compliance monitoring well 70S was initiated on December 10, 2023 in accordance with 35 I.A.C. § 845.660. GWPS exceedances for subsequent events will be incorporated into the CMA on a case-by-case basis, as opposed to generating a new CMA. As allowed in 35 I.A.C. § 845.650(e), an ASD will be evaluated for new detected exceedances of the GWPS and, if successfully completed, the ASD will be submitted to IEPA within 60 days of this transmittal.

TABLES

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

FIGURES

Figure 1	Monitoring Well Location Map
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ATTACHMENTS

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

TABLES

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
10	Background	E004	02/20/2024	Antimony, total	0.0013 U	mg/L
10	Background	E004	02/20/2024	Arsenic, total	0.00023 U	mg/L
10	Background	E004	02/20/2024	Barium, total	0.0760	mg/L
10	Background	E004	02/20/2024	Beryllium, total	0.00053 U	mg/L
10	Background	E004	02/20/2024	Boron, total	0.0680 J+	mg/L
10	Background	E004	02/20/2024	Cadmium, total	0.00017 U	mg/L
10	Background	E004	02/20/2024	Calcium, total	180	mg/L
10	Background	E004	02/20/2024	Chloride, total	3.50	mg/L
10	Background	E004	02/20/2024	Chromium, total	0.0024 J	mg/L
10	Background	E004	02/20/2024	Cobalt, total	0.00320	mg/L
10	Background	E004	02/20/2024	Dissolved Oxygen	3.11	mg/L
10	Background	E004	02/20/2024	Fluoride, total	0.130	mg/L
10	Background	E004	02/20/2024	Lead, total	0.00019 U	mg/L
10	Background	E004	02/20/2024	Lithium, total	0.0140	mg/L
10	Background	E004	02/20/2024	Mercury, total	0.000079 U	mg/L
10	Background	E004	02/20/2024	Molybdenum, total	0.0025 U	mg/L
10	Background	E004	02/20/2024	Oxidation Reduction Potential	28.8	mV
10	Background	E004	02/20/2024	pH (field)	6.8	SU
10	Background	E004	02/20/2024	Radium 226 + Radium 228, total	2.51	pCi/L
10	Background	E004	02/20/2024	Selenium, total	0.0013 J	mg/L
10	Background	E004	02/20/2024	Specific Conductance @ 25C (field)	1,099	micromhos/cm
10	Background	E004	02/20/2024	Sulfate, total	300	mg/L
10	Background	E004	02/20/2024	Temperature	12.7	degrees C
10	Background	E004	02/20/2024	Thallium, total	0.00057 U	mg/L
10	Background	E004	02/20/2024	Total Dissolved Solids	1,100	mg/L
10	Background	E004	02/20/2024	Turbidity, field	8.45	NTU
22	Background	E004	02/21/2024	Antimony, total	0.0013 U	mg/L
22	Background	E004	02/21/2024	Arsenic, total	0.00023 U	mg/L
22	Background	E004	02/21/2024	Barium, total	0.0840	mg/L
22	Background	E004	02/21/2024	Beryllium, total	0.00053 U	mg/L
22	Background	E004	02/21/2024	Boron, total	0.400 J+	mg/L
22	Background	E004	02/21/2024	Cadmium, total	0.00017 U	mg/L
22	Background	E004	02/21/2024	Calcium, total	46.0	mg/L
22	Background	E004	02/21/2024	Chloride, total	7.70	mg/L
22	Background	E004	02/21/2024	Chromium, total	0.0011 U	mg/L
22	Background	E004	02/21/2024	Cobalt, total	0.0004 U	mg/L
22	Background	E004	02/21/2024	Dissolved Oxygen	0.120	mg/L
22	Background	E004	02/21/2024	Fluoride, total	0.370	mg/L
22	Background	E004	02/21/2024	Lead, total	0.0005 UJ	mg/L
22	Background	E004	02/21/2024	Lithium, total	0.0280	mg/L
22	Background	E004	02/21/2024	Mercury, total	0.000079 U	mg/L
22	Background	E004	02/21/2024	Molybdenum, total	0.0025 U	mg/L
22	Background	E004	02/21/2024	Oxidation Reduction Potential	-73.5	mV
22	Background	E004	02/21/2024	pH (field)	7.4	SU
22	Background	E004	02/21/2024	Radium 226 + Radium 228, total	0.724	pCi/L
22	Background	E004	02/21/2024	Selenium, total	0.00098 U	mg/L

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NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
22	Background	E004	02/21/2024	Specific Conductance @ 25C (field)	623	micromhos/cm
22	Background	E004	02/21/2024	Sulfate, total	29.0	mg/L
22	Background	E004	02/21/2024	Temperature	13.2	degrees C
22	Background	E004	02/21/2024	Thallium, total	0.00057 U	mg/L
22	Background	E004	02/21/2024	Total Dissolved Solids	490	mg/L
22	Background	E004	02/21/2024	Turbidity, field	6.40	NTU
16B	Compliance	E004	--	Antimony, total	--	mg/L
16B	Compliance	E004	--	Arsenic, total	--	mg/L
16B	Compliance	E004	--	Barium, total	--	mg/L
16B	Compliance	E004	--	Beryllium, total	--	mg/L
16B	Compliance	E004	--	Boron, total	--	mg/L
16B	Compliance	E004	--	Cadmium, total	--	mg/L
16B	Compliance	E004	--	Calcium, total	--	mg/L
16B	Compliance	E004	--	Chloride, total	--	mg/L
16B	Compliance	E004	--	Chromium, total	--	mg/L
16B	Compliance	E004	--	Cobalt, total	--	mg/L
16B	Compliance	E004	--	Dissolved Oxygen	--	mg/L
16B	Compliance	E004	--	Fluoride, total	--	mg/L
16B	Compliance	E004	--	Lead, total	--	mg/L
16B	Compliance	E004	--	Lithium, total	--	mg/L
16B	Compliance	E004	--	Mercury, total	--	mg/L
16B	Compliance	E004	--	Molybdenum, total	--	mg/L
16B	Compliance	E004	--	Oxidation Reduction Potential	--	mV
16B	Compliance	E004	--	pH (field)	--	SU
16B	Compliance	E004	--	Radium 226 + Radium 228, total	--	pCi/L
16B	Compliance	E004	--	Selenium, total	--	mg/L
16B	Compliance	E004	--	Specific Conductance @ 25C (field)	--	micromhos/cm
16B	Compliance	E004	--	Sulfate, total	--	mg/L
16B	Compliance	E004	--	Temperature	--	degrees C
16B	Compliance	E004	--	Thallium, total	--	mg/L
16B	Compliance	E004	--	Total Dissolved Solids	--	mg/L
16B	Compliance	E004	--	Turbidity, field	--	NTU
16A	Compliance	E004	02/21/2024	Antimony, total	0.0013 U	mg/L
16A	Compliance	E004	02/21/2024	Arsenic, total	0.00530	mg/L
16A	Compliance	E004	02/21/2024	Barium, total	0.340	mg/L
16A	Compliance	E004	02/21/2024	Beryllium, total	0.00061 J	mg/L
16A	Compliance	E004	02/21/2024	Boron, total	0.620 J+	mg/L
16A	Compliance	E004	02/21/2024	Cadmium, total	0.00017 U	mg/L
16A	Compliance	E004	02/21/2024	Calcium, total	30.0	mg/L
16A	Compliance	E004	02/21/2024	Chloride, total	140	mg/L
16A	Compliance	E004	02/21/2024	Chromium, total	0.0140	mg/L
16A	Compliance	E004	02/21/2024	Cobalt, total	0.0110	mg/L
16A	Compliance	E004	02/21/2024	Dissolved Oxygen	2.86	mg/L
16A	Compliance	E004	02/21/2024	Fluoride, total	0.870	mg/L
16A	Compliance	E004	02/21/2024	Lead, total	0.00810 J+	mg/L
16A	Compliance	E004	02/21/2024	Lithium, total	0.0460	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
16A	Compliance	E004	02/21/2024	Mercury, total	0.000079 U	mg/L
16A	Compliance	E004	02/21/2024	Molybdenum, total	0.0025 U	mg/L
16A	Compliance	E004	02/21/2024	Oxidation Reduction Potential	-102	mV
16A	Compliance	E004	02/21/2024	pH (field)	7.7	SU
16A	Compliance	E004	02/21/2024	Radium 226 + Radium 228, total	1.77	pCi/L
16A	Compliance	E004	02/21/2024	Selenium, total	0.00098 U	mg/L
16A	Compliance	E004	02/21/2024	Specific Conductance @ 25C (field)	1,032	micromhos/cm
16A	Compliance	E004	02/21/2024	Sulfate, total	5.20	mg/L
16A	Compliance	E004	02/21/2024	Temperature	12.1	degrees C
16A	Compliance	E004	02/21/2024	Thallium, total	0.00057 U	mg/L
16A	Compliance	E004	02/21/2024	Total Dissolved Solids	650	mg/L
16A	Compliance	E004	02/21/2024	Turbidity, field	136	NTU
35S	Compliance	E004	--	Antimony, total	--	mg/L
35S	Compliance	E004	--	Arsenic, total	--	mg/L
35S	Compliance	E004	--	Barium, total	--	mg/L
35S	Compliance	E004	--	Beryllium, total	--	mg/L
35S	Compliance	E004	--	Boron, total	--	mg/L
35S	Compliance	E004	--	Cadmium, total	--	mg/L
35S	Compliance	E004	--	Calcium, total	--	mg/L
35S	Compliance	E004	--	Chloride, total	--	mg/L
35S	Compliance	E004	--	Chromium, total	--	mg/L
35S	Compliance	E004	--	Cobalt, total	--	mg/L
35S	Compliance	E004	--	Dissolved Oxygen	--	mg/L
35S	Compliance	E004	--	Fluoride, total	--	mg/L
35S	Compliance	E004	--	Lead, total	--	mg/L
35S	Compliance	E004	--	Lithium, total	--	mg/L
35S	Compliance	E004	--	Mercury, total	--	mg/L
35S	Compliance	E004	--	Molybdenum, total	--	mg/L
35S	Compliance	E004	--	Oxidation Reduction Potential	--	mV
35S	Compliance	E004	--	pH (field)	--	SU
35S	Compliance	E004	--	Radium 226 + Radium 228, total	--	pCi/L
35S	Compliance	E004	--	Selenium, total	--	mg/L
35S	Compliance	E004	--	Specific Conductance @ 25C (field)	--	micromhos/cm
35S	Compliance	E004	--	Sulfate, total	--	mg/L
35S	Compliance	E004	--	Temperature	--	degrees C
35S	Compliance	E004	--	Thallium, total	--	mg/L
35S	Compliance	E004	--	Total Dissolved Solids	--	mg/L
35S	Compliance	E004	--	Turbidity, field	--	NTU
35D	Compliance	E004	02/21/2024	Antimony, total	0.0013 U	mg/L
35D	Compliance	E004	02/21/2024	Arsenic, total	0.0023 J	mg/L
35D	Compliance	E004	02/21/2024	Barium, total	0.0260	mg/L
35D	Compliance	E004	02/21/2024	Beryllium, total	0.00053 U	mg/L
35D	Compliance	E004	02/21/2024	Boron, total	2.10	mg/L
35D	Compliance	E004	02/21/2024	Cadmium, total	0.00017 U	mg/L
35D	Compliance	E004	02/21/2024	Calcium, total	110	mg/L
35D	Compliance	E004	02/21/2024	Chloride, total	440	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
35D	Compliance	E004	02/21/2024	Chromium, total	0.0011 U	mg/L
35D	Compliance	E004	02/21/2024	Cobalt, total	0.0004 U	mg/L
35D	Compliance	E004	02/21/2024	Dissolved Oxygen	0.140	mg/L
35D	Compliance	E004	02/21/2024	Fluoride, total	0.700	mg/L
35D	Compliance	E004	02/21/2024	Lead, total	0.0005 UJ	mg/L
35D	Compliance	E004	02/21/2024	Lithium, total	0.130	mg/L
35D	Compliance	E004	02/21/2024	Mercury, total	0.000079 U	mg/L
35D	Compliance	E004	02/21/2024	Molybdenum, total	0.0035 J	mg/L
35D	Compliance	E004	02/21/2024	Oxidation Reduction Potential	-16.2	mV
35D	Compliance	E004	02/21/2024	pH (field)	7.4	SU
35D	Compliance	E004	02/21/2024	Radium 226 + Radium 228, total	0.558	pCi/L
35D	Compliance	E004	02/21/2024	Selenium, total	0.00098 U	mg/L
35D	Compliance	E004	02/21/2024	Specific Conductance @ 25C (field)	4,000	micromhos/cm
35D	Compliance	E004	02/21/2024	Sulfate, total	1,600	mg/L
35D	Compliance	E004	02/21/2024	Temperature	12.5	degrees C
35D	Compliance	E004	02/21/2024	Thallium, total	0.00057 U	mg/L
35D	Compliance	E004	02/21/2024	Total Dissolved Solids	3,900	mg/L
35D	Compliance	E004	02/21/2024	Turbidity, field	31.0	NTU
70S	Compliance	E004	02/21/2024	Antimony, total	0.0013 U	mg/L
70S	Compliance	E004	02/21/2024	Arsenic, total	0.00032 J	mg/L
70S	Compliance	E004	02/21/2024	Barium, total	0.0240	mg/L
70S	Compliance	E004	02/21/2024	Beryllium, total	0.00053 U	mg/L
70S	Compliance	E004	02/21/2024	Boron, total	0.430 J+	mg/L
70S	Compliance	E004	02/21/2024	Cadmium, total	0.00026 J	mg/L
70S	Compliance	E004	02/21/2024	Calcium, total	210	mg/L
70S	Compliance	E004	02/21/2024	Chloride, total	11.0	mg/L
70S	Compliance	E004	02/21/2024	Chromium, total	0.0011 U	mg/L
70S	Compliance	E004	02/21/2024	Cobalt, total	0.0004 U	mg/L
70S	Compliance	E004	02/21/2024	Dissolved Oxygen	0.220	mg/L
70S	Compliance	E004	02/21/2024	Fluoride, total	0.130	mg/L
70S	Compliance	E004	02/21/2024	Lead, total	0.00019 U	mg/L
70S	Compliance	E004	02/21/2024	Lithium, total	0.00930	mg/L
70S	Compliance	E004	02/21/2024	Mercury, total	0.000079 U	mg/L
70S	Compliance	E004	02/21/2024	Molybdenum, total	0.0034 J	mg/L
70S	Compliance	E004	02/21/2024	Oxidation Reduction Potential	68.4	mV
70S	Compliance	E004	02/21/2024	pH (field)	6.9	SU
70S	Compliance	E004	02/21/2024	Radium 226 + Radium 228, total	0.325	pCi/L
70S	Compliance	E004	02/21/2024	Selenium, total	0.00098 U	mg/L
70S	Compliance	E004	02/21/2024	Specific Conductance @ 25C (field)	1,298	micromhos/cm
70S	Compliance	E004	02/21/2024	Sulfate, total	600	mg/L
70S	Compliance	E004	02/21/2024	Temperature	11.0	degrees C
70S	Compliance	E004	02/21/2024	Thallium, total	0.00057 U	mg/L
70S	Compliance	E004	02/21/2024	Total Dissolved Solids	1,200	mg/L
70S	Compliance	E004	02/21/2024	Turbidity, field	6.82	NTU
70D	Compliance	E004	02/21/2024	Antimony, total	0.0013 U	mg/L
70D	Compliance	E004	02/21/2024	Arsenic, total	0.00058 J	mg/L

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VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
70D	Compliance	E004	02/21/2024	Barium, total	0.680	mg/L
70D	Compliance	E004	02/21/2024	Beryllium, total	0.00053 U	mg/L
70D	Compliance	E004	02/21/2024	Boron, total	1.50	mg/L
70D	Compliance	E004	02/21/2024	Cadmium, total	0.00017 U	mg/L
70D	Compliance	E004	02/21/2024	Calcium, total	84.0	mg/L
70D	Compliance	E004	02/21/2024	Chloride, total	730	mg/L
70D	Compliance	E004	02/21/2024	Chromium, total	0.0035 J	mg/L
70D	Compliance	E004	02/21/2024	Cobalt, total	0.00270	mg/L
70D	Compliance	E004	02/21/2024	Dissolved Oxygen	0.300	mg/L
70D	Compliance	E004	02/21/2024	Fluoride, total	0.400	mg/L
70D	Compliance	E004	02/21/2024	Lead, total	0.00200 J+	mg/L
70D	Compliance	E004	02/21/2024	Lithium, total	0.0970	mg/L
70D	Compliance	E004	02/21/2024	Mercury, total	0.000079 U	mg/L
70D	Compliance	E004	02/21/2024	Molybdenum, total	0.0025 U	mg/L
70D	Compliance	E004	02/21/2024	Oxidation Reduction Potential	26.7	mV
70D	Compliance	E004	02/21/2024	pH (field)	6.9	SU
70D	Compliance	E004	02/21/2024	Radium 226 + Radium 228, total	1.94	pCi/L
70D	Compliance	E004	02/21/2024	Selenium, total	0.00098 U	mg/L
70D	Compliance	E004	02/21/2024	Specific Conductance @ 25C (field)	2,781	micromhos/cm
70D	Compliance	E004	02/21/2024	Sulfate, total	43.0	mg/L
70D	Compliance	E004	02/21/2024	Temperature	11.7	degrees C
70D	Compliance	E004	02/21/2024	Thallium, total	0.00057 U	mg/L
70D	Compliance	E004	02/21/2024	Total Dissolved Solids	1,900	mg/L
70D	Compliance	E004	02/21/2024	Turbidity, field	19.6	NTU
71S	Compliance	E004	--	Antimony, total	--	mg/L
71S	Compliance	E004	--	Arsenic, total	--	mg/L
71S	Compliance	E004	--	Barium, total	--	mg/L
71S	Compliance	E004	--	Beryllium, total	--	mg/L
71S	Compliance	E004	--	Boron, total	--	mg/L
71S	Compliance	E004	--	Cadmium, total	--	mg/L
71S	Compliance	E004	--	Calcium, total	--	mg/L
71S	Compliance	E004	--	Chloride, total	--	mg/L
71S	Compliance	E004	--	Chromium, total	--	mg/L
71S	Compliance	E004	--	Cobalt, total	--	mg/L
71S	Compliance	E004	--	Dissolved Oxygen	--	mg/L
71S	Compliance	E004	--	Fluoride, total	--	mg/L
71S	Compliance	E004	--	Lead, total	--	mg/L
71S	Compliance	E004	--	Lithium, total	--	mg/L
71S	Compliance	E004	--	Mercury, total	--	mg/L
71S	Compliance	E004	--	Molybdenum, total	--	mg/L
71S	Compliance	E004	--	Oxidation Reduction Potential	--	mV
71S	Compliance	E004	--	pH (field)	--	SU
71S	Compliance	E004	--	Radium 226 + Radium 228, total	--	pCi/L
71S	Compliance	E004	--	Selenium, total	--	mg/L
71S	Compliance	E004	--	Specific Conductance @ 25C (field)	--	micromhos/cm
71S	Compliance	E004	--	Sulfate, total	--	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
71S	Compliance	E004	--	Temperature	--	degrees C
71S	Compliance	E004	--	Thallium, total	--	mg/L
71S	Compliance	E004	--	Total Dissolved Solids	--	mg/L
71S	Compliance	E004	--	Turbidity, field	--	NTU
71D	Compliance	E004	--	Antimony, total	--	mg/L
71D	Compliance	E004	--	Arsenic, total	--	mg/L
71D	Compliance	E004	--	Barium, total	--	mg/L
71D	Compliance	E004	--	Beryllium, total	--	mg/L
71D	Compliance	E004	--	Boron, total	--	mg/L
71D	Compliance	E004	--	Cadmium, total	--	mg/L
71D	Compliance	E004	--	Calcium, total	--	mg/L
71D	Compliance	E004	--	Chloride, total	--	mg/L
71D	Compliance	E004	--	Chromium, total	--	mg/L
71D	Compliance	E004	--	Cobalt, total	--	mg/L
71D	Compliance	E004	--	Dissolved Oxygen	--	mg/L
71D	Compliance	E004	--	Fluoride, total	--	mg/L
71D	Compliance	E004	--	Lead, total	--	mg/L
71D	Compliance	E004	--	Lithium, total	--	mg/L
71D	Compliance	E004	--	Mercury, total	--	mg/L
71D	Compliance	E004	--	Molybdenum, total	--	mg/L
71D	Compliance	E004	--	Oxidation Reduction Potential	--	mV
71D	Compliance	E004	--	pH (field)	--	SU
71D	Compliance	E004	--	Radium 226 + Radium 228, total	--	pCi/L
71D	Compliance	E004	--	Selenium, total	--	mg/L
71D	Compliance	E004	--	Specific Conductance @ 25C (field)	--	micromhos/cm
71D	Compliance	E004	--	Sulfate, total	--	mg/L
71D	Compliance	E004	--	Temperature	--	degrees C
71D	Compliance	E004	--	Thallium, total	--	mg/L
71D	Compliance	E004	--	Total Dissolved Solids	--	mg/L
71D	Compliance	E004	--	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.
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 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	E004	Antimony, total	mg/L	--	--	--	--	--	0.006	Standard	--
16B	UU	E004	Arsenic, total	mg/L	--	--	--	--	--	0.010	Standard	--
16B	UU	E004	Barium, total	mg/L	--	--	--	--	--	2.0	Standard	--
16B	UU	E004	Beryllium, total	mg/L	--	--	--	--	--	0.004	Standard	--
16B	UU	E004	Boron, total	mg/L	--	--	--	--	--	2	Standard	--
16B	UU	E004	Cadmium, total	mg/L	--	--	--	--	--	0.005	Standard	--
16B	UU	E004	Chloride, total	mg/L	--	--	--	--	--	200	Standard	--
16B	UU	E004	Chromium, total	mg/L	--	--	--	--	--	0.1	Standard	--
16B	UU	E004	Cobalt, total	mg/L	--	--	--	--	--	0.0900	Background	--
16B	UU	E004	Fluoride, total	mg/L	--	--	--	--	--	4.0	Standard	--
16B	UU	E004	Lead, total	mg/L	--	--	--	--	--	0.0075	Standard	--
16B	UU	E004	Lithium, total	mg/L	--	--	--	--	--	0.04	Standard	--
16B	UU	E004	Mercury, total	mg/L	--	--	--	--	--	0.002	Standard	--
16B	UU	E004	Molybdenum, total	mg/L	--	--	--	--	--	0.1	Standard	--
16B	UU	E004	pH (field)	SU	--	--	--	--	--	6.3/9.0	Background/Standard	--
16B	UU	E004	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00	Background	--
16B	UU	E004	Selenium, total	mg/L	--	--	--	--	--	0.05	Standard	--
16B	UU	E004	Sulfate, total	mg/L	--	--	--	--	--	400	Standard	--
16B	UU	E004	Thallium, total	mg/L	--	--	--	--	--	0.002	Standard	--
16B	UU	E004	Total Dissolved Solids	mg/L	--	--	--	--	--	1,200	Standard	--
16A	BCU	E004	Antimony, total	mg/L	04/01/21 - 02/21/24	11	91	CI around median	0.001	0.006	Standard	No Exceedance
16A	BCU	E004	Arsenic, total	mg/L	04/01/21 - 02/21/24	11	0	CI around geomean	0.00117	0.010	Standard	No Exceedance
16A	BCU	E004	Barium, total	mg/L	04/01/21 - 02/21/24	11	0	CI around mean	0.25	2.0	Standard	No Exceedance
16A	BCU	E004	Beryllium, total	mg/L	04/01/21 - 02/21/24	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
16A	BCU	E004	Boron, total	mg/L	04/01/21 - 02/21/24	11	0	CI around mean	0.674	2	Standard	No Exceedance
16A	BCU	E004	Cadmium, total	mg/L	04/01/21 - 02/21/24	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
16A	BCU	E004	Chloride, total	mg/L	04/01/21 - 02/21/24	11	0	CI around mean	126	200	Standard	No Exceedance

TABLE 2.
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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
16A	BCU	E004	Chromium, total	mg/L	04/01/21 - 02/21/24	11	91	CB around T-S line	0.0015	0.1	Standard	No Exceedance
16A	BCU	E004	Cobalt, total	mg/L	04/01/21 - 02/21/24	11	91	CI around median	0.001	0.0900	Background	No Exceedance
16A	BCU	E004	Fluoride, total	mg/L	04/01/21 - 02/21/24	11	9	CI around mean	0.663	4.0	Standard	No Exceedance
16A	BCU	E004	Lead, total	mg/L	04/01/21 - 02/21/24	11	91	CI around median	0.0005	0.0075	Standard	No Exceedance
16A	BCU	E004	Lithium, total	mg/L	04/01/21 - 02/21/24	11	0	CB around linear reg	0.0289	0.04	Standard	No Exceedance
16A	BCU	E004	Mercury, total	mg/L	04/01/21 - 02/21/24	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
16A	BCU	E004	Molybdenum, total	mg/L	04/01/21 - 02/21/24	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance
16A	BCU	E004	pH (field)	SU	04/01/21 - 02/21/24	16	0	CI around mean	7.2/7.5	6.3/9.0	Background/Standard	No Exceedance
16A	BCU	E004	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 02/21/24	10	0	CI around mean	0.465	7.00	Background	No Exceedance
16A	BCU	E004	Selenium, total	mg/L	04/01/21 - 02/21/24	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
16A	BCU	E004	Sulfate, total	mg/L	04/01/21 - 02/21/24	16	5	CB around linear reg	-24	400	Standard	No Exceedance
16A	BCU	E004	Thallium, total	mg/L	04/01/21 - 02/21/24	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
16A	BCU	E004	Total Dissolved Solids	mg/L	04/01/21 - 02/21/24	16	0	CI around mean	646	1,200	Standard	No Exceedance
35S	UU	E004	Antimony, total	mg/L	--	--	--	--	--	0.006	Standard	--
35S	UU	E004	Arsenic, total	mg/L	--	--	--	--	--	0.010	Standard	--
35S	UU	E004	Barium, total	mg/L	--	--	--	--	--	2.0	Standard	--
35S	UU	E004	Beryllium, total	mg/L	--	--	--	--	--	0.004	Standard	--
35S	UU	E004	Boron, total	mg/L	--	--	--	--	--	2	Standard	--
35S	UU	E004	Cadmium, total	mg/L	--	--	--	--	--	0.005	Standard	--
35S	UU	E004	Chloride, total	mg/L	--	--	--	--	--	200	Standard	--
35S	UU	E004	Chromium, total	mg/L	--	--	--	--	--	0.1	Standard	--
35S	UU	E004	Cobalt, total	mg/L	--	--	--	--	--	0.0900	Background	--
35S	UU	E004	Fluoride, total	mg/L	--	--	--	--	--	4.0	Standard	--
35S	UU	E004	Lead, total	mg/L	--	--	--	--	--	0.0075	Standard	--
35S	UU	E004	Lithium, total	mg/L	--	--	--	--	--	0.04	Standard	--
35S	UU	E004	Mercury, total	mg/L	--	--	--	--	--	0.002	Standard	--
35S	UU	E004	Molybdenum, total	mg/L	--	--	--	--	--	0.1	Standard	--

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 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
35S	UU	E004	pH (field)	SU	--	--	--	--	--	6.3/9.0	Background/Standard	--
35S	UU	E004	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00	Background	--
35S	UU	E004	Selenium, total	mg/L	--	--	--	--	--	0.05	Standard	--
35S	UU	E004	Sulfate, total	mg/L	--	--	--	--	--	400	Standard	--
35S	UU	E004	Thallium, total	mg/L	--	--	--	--	--	0.002	Standard	--
35S	UU	E004	Total Dissolved Solids	mg/L	--	--	--	--	--	1,200	Standard	--
35D	BCU	E004	Antimony, total	mg/L	04/01/21 - 02/21/24	12	75	CI around median	0.001	0.006	Standard	No Exceedance
35D	BCU	E004	Arsenic, total	mg/L	04/01/21 - 02/21/24	12	17	CI around geomean	0.00164	0.010	Standard	No Exceedance
35D	BCU	E004	Barium, total	mg/L	04/01/21 - 02/21/24	12	0	CI around median	0.026	2.0	Standard	No Exceedance
35D	BCU	E004	Beryllium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.001	0.004	Standard	No Exceedance
35D	BCU	E004	Boron, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	1.64	2	Standard	No Exceedance
35D	BCU	E004	Cadmium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
35D	BCU	E004	Chloride, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	302	200	Standard	Exceedance
35D	BCU	E004	Chromium, total	mg/L	04/01/21 - 02/21/24	12	75	CI around median	0.0015	0.1	Standard	No Exceedance
35D	BCU	E004	Cobalt, total	mg/L	04/01/21 - 02/21/24	12	42	CI around median	0.001	0.0900	Background	No Exceedance
35D	BCU	E004	Fluoride, total	mg/L	04/01/21 - 02/21/24	12	8	CI around mean	0.642	4.0	Standard	No Exceedance
35D	BCU	E004	Lead, total	mg/L	04/01/21 - 02/21/24	12	50	CI around geomean	0.000579	0.0075	Standard	No Exceedance
35D	BCU	E004	Lithium, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	0.112	0.04	Standard	Exceedance
35D	BCU	E004	Mercury, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
35D	BCU	E004	Molybdenum, total	mg/L	04/01/21 - 02/21/24	12	25	CB around linear reg	-0.00104	0.1	Standard	No Exceedance
35D	BCU	E004	pH (field)	SU	04/01/21 - 02/21/24	16	0	CI around median	7.3/7.4	6.3/9.0	Background/Standard	No Exceedance
35D	BCU	E004	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 02/21/24	11	0	CI around mean	0.333	7.00	Background	No Exceedance
35D	BCU	E004	Selenium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
35D	BCU	E004	Sulfate, total	mg/L	04/01/21 - 02/21/24	17	0	CI around mean	1,100	400	Standard	Exceedance
35D	BCU	E004	Thallium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.002	0.002	Standard	No Exceedance
35D	BCU	E004	Total Dissolved Solids	mg/L	04/01/21 - 02/21/24	17	0	CI around mean	2,710	1,200	Standard	Exceedance
70S	UU	E004	Antimony, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
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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
70S	UU	E004	Arsenic, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.001	0.010	Standard	No Exceedance
70S	UU	E004	Barium, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	0.0166	2.0	Standard	No Exceedance
70S	UU	E004	Beryllium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.001	0.004	Standard	No Exceedance
70S	UU	E004	Boron, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	0.366	2	Standard	No Exceedance
70S	UU	E004	Cadmium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
70S	UU	E004	Chloride, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	13.2	200	Standard	No Exceedance
70S	UU	E004	Chromium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.005	0.1	Standard	No Exceedance
70S	UU	E004	Cobalt, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.001	0.0900	Background	No Exceedance
70S	UU	E004	Fluoride, total	mg/L	04/01/21 - 02/21/24	12	8	CI around median	0.14	4.0	Standard	No Exceedance
70S	UU	E004	Lead, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
70S	UU	E004	Lithium, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	0.0112	0.04	Standard	No Exceedance
70S	UU	E004	Mercury, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
70S	UU	E004	Molybdenum, total	mg/L	04/01/21 - 02/21/24	12	25	CI around median	0.005	0.1	Standard	No Exceedance
70S	UU	E004	pH (field)	SU	04/01/21 - 02/21/24	12	0	CI around mean	6.9/7.0	6.3/9.0	Background/Standard	No Exceedance
70S	UU	E004	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 02/21/24	11	0	CI around geomean	0.0972	7.00	Background	No Exceedance
70S	UU	E004	Selenium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
70S	UU	E004	Sulfate, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	605	400	Standard	Exceedance
70S	UU	E004	Thallium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.002	0.002	Standard	No Exceedance
70S	UU	E004	Total Dissolved Solids	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	1,230	1,200	Standard	Exceedance
70D	BCU	E004	Antimony, total	mg/L	04/01/21 - 02/21/24	12	83	CI around median	0.001	0.006	Standard	No Exceedance
70D	BCU	E004	Arsenic, total	mg/L	04/01/21 - 02/21/24	12	58	CI around median	0.001	0.010	Standard	No Exceedance
70D	BCU	E004	Barium, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	0.461	2.0	Standard	No Exceedance
70D	BCU	E004	Beryllium, total	mg/L	04/01/21 - 02/21/24	12	75	CI around median	0.001	0.004	Standard	No Exceedance
70D	BCU	E004	Boron, total	mg/L	04/01/21 - 02/21/24	12	0	CI around median	1.01	2	Standard	No Exceedance
70D	BCU	E004	Cadmium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
70D	BCU	E004	Chloride, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	525	200	Standard	Exceedance
70D	BCU	E004	Chromium, total	mg/L	04/01/21 - 02/21/24	12	33	CI around geomean	0.00292	0.1	Standard	No Exceedance

TABLE 2.
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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
70D	BCU	E004	Cobalt, total	mg/L	04/01/21 - 02/21/24	12	8	CI around geomean	0.00161	0.0900	Background	No Exceedance
70D	BCU	E004	Fluoride, total	mg/L	04/01/21 - 02/21/24	12	8	CB around linear reg	0.234	4.0	Standard	No Exceedance
70D	BCU	E004	Lead, total	mg/L	04/01/21 - 02/21/24	12	17	CI around geomean	0.00137	0.0075	Standard	No Exceedance
70D	BCU	E004	Lithium, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	0.0761	0.04	Standard	Exceedance
70D	BCU	E004	Mercury, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
70D	BCU	E004	Molybdenum, total	mg/L	04/01/21 - 02/21/24	12	33	CB around linear reg	-0.0201	0.1	Standard	No Exceedance
70D	BCU	E004	pH (field)	SU	04/01/21 - 02/21/24	12	0	CI around mean	6.9/7.2	6.3/9.0	Background/Standard	No Exceedance
70D	BCU	E004	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 02/21/24	11	0	CI around mean	0.993	7.00	Background	No Exceedance
70D	BCU	E004	Selenium, total	mg/L	04/01/21 - 02/21/24	12	83	CI around median	0.001	0.05	Standard	No Exceedance
70D	BCU	E004	Sulfate, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	46.5	400	Standard	No Exceedance
70D	BCU	E004	Thallium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.002	0.002	Standard	No Exceedance
70D	BCU	E004	Total Dissolved Solids	mg/L	04/01/21 - 02/21/24	12	0	CB around linear reg	1,270	1,200	Standard	Exceedance
71S	UU	E004	Antimony, total	mg/L	--	--	--	--	--	0.006	Standard	--
71S	UU	E004	Arsenic, total	mg/L	--	--	--	--	--	0.010	Standard	--
71S	UU	E004	Barium, total	mg/L	--	--	--	--	--	2.0	Standard	--
71S	UU	E004	Beryllium, total	mg/L	--	--	--	--	--	0.004	Standard	--
71S	UU	E004	Boron, total	mg/L	--	--	--	--	--	2	Standard	--
71S	UU	E004	Cadmium, total	mg/L	--	--	--	--	--	0.005	Standard	--
71S	UU	E004	Chloride, total	mg/L	--	--	--	--	--	200	Standard	--
71S	UU	E004	Chromium, total	mg/L	--	--	--	--	--	0.1	Standard	--
71S	UU	E004	Cobalt, total	mg/L	--	--	--	--	--	0.0900	Background	--
71S	UU	E004	Fluoride, total	mg/L	--	--	--	--	--	4.0	Standard	--
71S	UU	E004	Lead, total	mg/L	--	--	--	--	--	0.0075	Standard	--
71S	UU	E004	Lithium, total	mg/L	--	--	--	--	--	0.04	Standard	--
71S	UU	E004	Mercury, total	mg/L	--	--	--	--	--	0.002	Standard	--
71S	UU	E004	Molybdenum, total	mg/L	--	--	--	--	--	0.1	Standard	--
71S	UU	E004	pH (field)	SU	--	--	--	--	--	6.3/9.0	Background/Standard	--

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 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	E004	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00	Background	--
71S	UU	E004	Selenium, total	mg/L	--	--	--	--	--	0.05	Standard	--
71S	UU	E004	Sulfate, total	mg/L	--	--	--	--	--	400	Standard	--
71S	UU	E004	Thallium, total	mg/L	--	--	--	--	--	0.002	Standard	--
71S	UU	E004	Total Dissolved Solids	mg/L	--	--	--	--	--	1,200	Standard	--
71D	BCU	E004	Antimony, total	mg/L	--	--	--	--	--	0.006	Standard	--
71D	BCU	E004	Arsenic, total	mg/L	--	--	--	--	--	0.010	Standard	--
71D	BCU	E004	Barium, total	mg/L	--	--	--	--	--	2.0	Standard	--
71D	BCU	E004	Beryllium, total	mg/L	--	--	--	--	--	0.004	Standard	--
71D	BCU	E004	Boron, total	mg/L	--	--	--	--	--	2	Standard	--
71D	BCU	E004	Cadmium, total	mg/L	--	--	--	--	--	0.005	Standard	--
71D	BCU	E004	Chloride, total	mg/L	--	--	--	--	--	200	Standard	--
71D	BCU	E004	Chromium, total	mg/L	--	--	--	--	--	0.1	Standard	--
71D	BCU	E004	Cobalt, total	mg/L	--	--	--	--	--	0.0900	Background	--
71D	BCU	E004	Fluoride, total	mg/L	--	--	--	--	--	4.0	Standard	--
71D	BCU	E004	Lead, total	mg/L	--	--	--	--	--	0.0075	Standard	--
71D	BCU	E004	Lithium, total	mg/L	--	--	--	--	--	0.04	Standard	--
71D	BCU	E004	Mercury, total	mg/L	--	--	--	--	--	0.002	Standard	--
71D	BCU	E004	Molybdenum, total	mg/L	--	--	--	--	--	0.1	Standard	--
71D	BCU	E004	pH (field)	SU	--	--	--	--	--	6.3/9.0	Background/Standard	--
71D	BCU	E004	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00	Background	--
71D	BCU	E004	Selenium, total	mg/L	--	--	--	--	--	0.05	Standard	--
71D	BCU	E004	Sulfate, total	mg/L	--	--	--	--	--	400	Standard	--
71D	BCU	E004	Thallium, total	mg/L	--	--	--	--	--	0.002	Standard	--
71D	BCU	E004	Total Dissolved Solids	mg/L	--	--	--	--	--	1,200	Standard	--

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 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:

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

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

FIGURES



- COMPLIANCE WELL
- BACKGROUND WELL
- 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
SUMMARY OF GROUNDWATER ELEVATION DATA
QUARTER 1, 2024**

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 1, 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	02/19/2024	49.41	609.85
16B	Compliance	02/19/2024	Dry	
16A	Compliance	02/19/2024	12.05	568.44
22	Background	02/19/2024	55.33	603.46
35S	Compliance	02/19/2024	Dry	
35D	Compliance	02/19/2024	10.11	574.20
70S	Compliance	02/19/2024	10.99	582.92
70D	Compliance	02/19/2024	32.12	562.57
71S	Compliance	02/19/2024	10.15	569.58
71D	Compliance	02/19/2024	37.97	542.09
NED1	Water Level	02/19/2024	2.40	597.84

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

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
133 S 4th, Suite 206
Springfield, Illinois 62701

Generated 03/26/24 16:02:20

JOB DESCRIPTION

VER-24Q1
VER_845_912

JOB NUMBER

500-246480-5

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



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Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	5
Method Summary	11
Sample Summary	12
Client Sample Results	13
Definitions	23
QC Association	24
QC Sample Results	30
Chronicle	38
Certification Summary	43
Chain of Custody	44
Receipt Checklists	50
Field Data Sheets	51



Client: Vistra Energy Corp
Project: VER-24Q1

Job ID: 500-246480-5

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Job Narrative
500-246480-5

Receipt

The samples were received on 02/21/24 11:20. 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 1.5° C, 2.5° C, 2.6° C, 2.7° C, 3.6° C, 3.9° C, 4.1° C, 4.1° C, 5.1° C and 5.3° C.

Receipt Exceptions

Received 7 bottles for sample 5, COC has 6. Received Rad bottles for sample 20, not marked on COC. VER_010 (500-246480-5) and VER_ND3 (500-246480-20)

VER_ND3 (Sample 20) not requesting Rad analysis on client SARs and confirmed via email, not logged for Rad.

Metals

Method 6020B: The method blank for preparation batch 500-757078 and analytical batch 500-758475 contained Boron 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.

Method 6020B: The method blank for preparation batch 500-756958 and analytical batch 500-758475 contained Boron and Calcium 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.

Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-758529 was above the upper control limit. The affected analyte is: Be. Sample results were below the reporting limit, and have been reported as qualified data.

Method 6020B: The continuing calibration verification (CCV) at lines 161 and 203 associated with batch 500-757459 recovered above the upper control limit for Antimony. The samples associated with these CCVs were non-detects for the affected analyte; therefore, the data have been reported.

Method 6020B: The continuing calibration blank (CCB) at lines 161 and 203 for analytical batch 500-757459 contained Antimony greater than the reporting limit (RL). The samples associated with these CCBs were non-detects for the affected analyte; therefore, the data have been reported.

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

General Chemistry

Method SM 2320B: The method blank for analytical batch 500-757067 contained Alkalinity and Bicarbonate Alkalinity as CaCO₃ above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank. The following samples were affected: VER_010 (500-246480-5), VER_016A (500-246480-25), VER_022 (500-246480-26), VER_035&D (500-246480-27), VER_070#S (500-246480-29), VER_070&D (500-246480-30), VER_NED1 (500-246480-31), (500-246480-B-10), (500-246480-B-15), (500-246480-B-15 DU) and (500-246480-B-25 DU)

Method 300.0: The laboratory control sample (LCS) for analytical batch 500-757150 recovered outside control limits for the following analyte: Chloride. These analytes were biased high in the LCS and were the associated samples recovered below the reporting limit(RL); therefore, the data have been reported.

Method 300.0: The method blank for analytical batch 500-757150 contained Sulfate 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.

Method 300.0: The method blank for analytical batch 500-757868 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.

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ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
Detection Summary
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_010

Lab Sample ID: 500-246480-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.014		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.076		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.068	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	180	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0024	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0032		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	100		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	1.6		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0013	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	11		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	3.5		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	300		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	540	B	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)	49.31				ft	1		Field Sampling	Total/NA
Field pH	6.82				SU	1		Field Sampling	Total/NA
Field Temperature	12.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	28.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.11				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1099				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.45				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_EB1

Lab Sample ID: 500-246480-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.020	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Lead	0.00045	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Bicarbonate Alkalinity as CaCO3	6.3		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: VER_016A

Lab Sample ID: 500-246480-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.046		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0053		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.34		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Beryllium	0.00061	J	0.0010	0.00053	mg/L	1		6020B	Total Recoverable
Boron	0.62	B	0.050	0.013	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

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ATTACHMENT B.
Detection Summary
 845-QUARTERLY REPORT - QUARTER 1, 2024
 VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
 VER-845-912

Client: Vistra Energy Corp
 Project/Site: VER-24Q1

Job ID: 500-246480-5
 SDG: VER_845_912

Client Sample ID: VER_016A (Continued)

Lab Sample ID: 500-246480-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	30		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.014		0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.011		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.0081		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	21		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	3.8		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	170		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	140	B	10	1.2	mg/L	10		300.0	Total/NA
Sulfate	5.2		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	380		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	650		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.87		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	12.13				ft	1		Field Sampling	Total/NA
Field pH	7.68				SU	1		Field Sampling	Total/NA
Field Temperature	12.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-101.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.86				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1032				umhos/cm	1		Field Sampling	Total/NA
Turbidity	135.54				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_022

Lab Sample ID: 500-246480-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.028		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.084		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	46		0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00019	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	25		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.5		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	120		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	7.7		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	410		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	490		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)	55.29				ft	1		Field Sampling	Total/NA
Field pH	7.40				SU	1		Field Sampling	Total/NA
Field Temperature	13.2				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-73.5				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
Detection Summary
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_022 (Continued)

Lab Sample ID: 500-246480-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.12				mg/L	1		Field Sampling	Total/NA
Specific Conductance	623				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.4				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_035&D

Lab Sample ID: 500-246480-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.13		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total
Arsenic	0.0023	J	0.010	0.0023	mg/L	10		6020B	Recoverable Total
Barium	0.026		0.0025	0.00073	mg/L	1		6020B	Recoverable Total
Boron	2.1	B	0.50	0.13	mg/L	10		6020B	Recoverable Total
Calcium	110		2.0	0.44	mg/L	10		6020B	Recoverable Total
Lead	0.00029	J	0.00050	0.00019	mg/L	1		6020B	Recoverable Total
Magnesium	93		0.20	0.049	mg/L	1		6020B	Recoverable Total
Molybdenum	0.0035	J	0.0050	0.0025	mg/L	1		6020B	Recoverable Total
Potassium	8.8		5.0	1.1	mg/L	10		6020B	Recoverable Total
Sodium	1100		2.0	0.77	mg/L	10		6020B	Recoverable Total
Chloride	440	B	100	12	mg/L	100		300.0	Total/NA
Sulfate	1600		100	21	mg/L	100		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	630	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3900		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.70		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	10.15				ft	1		Field Sampling	Total/NA
Field pH	7.42				SU	1		Field Sampling	Total/NA
Field Temperature	12.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-16.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.14				mg/L	1		Field Sampling	Total/NA
Specific Conductance	4000				umhos/cm	1		Field Sampling	Total/NA
Turbidity	31.0				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_070#S

Lab Sample ID: 500-246480-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0093		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total
Arsenic	0.00032	J	0.0010	0.00023	mg/L	1		6020B	Recoverable Total
Barium	0.024		0.0025	0.00073	mg/L	1		6020B	Recoverable Total
Boron	0.43	B	0.050	0.013	mg/L	1		6020B	Recoverable Total
Cadmium	0.00026	J	0.00050	0.00017	mg/L	1		6020B	Recoverable Total
Calcium	210		0.20	0.044	mg/L	1		6020B	Recoverable Total

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

ATTACHMENT B.
Detection Summary
 845-QUARTERLY REPORT - QUARTER 1, 2024
 VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
 VER-845-912

Client: Vistra Energy Corp
 Project/Site: VER-24Q1

Job ID: 500-246480-5
 SDG: VER_845_912

Client Sample ID: VER_070#S (Continued)

Lab Sample ID: 500-246480-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	90		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0034	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	1.8		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	19		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	11		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	600		50	10	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	310	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1200		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)	11.12				ft	1		Field Sampling	Total/NA
Field pH	6.93				SU	1		Field Sampling	Total/NA
Field Temperature	11.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	68.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.22				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1298				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.82				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_070&D

Lab Sample ID: 500-246480-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.097		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00058	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.68		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.5	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	84		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0035	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0027		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.0020		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	49		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	7.4		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	620		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	730	B	100	12	mg/L	100		300.0	Total/NA
Sulfate	43		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	490	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1900		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.40		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	31.83				ft	1		Field Sampling	Total/NA
Field pH	6.91				SU	1		Field Sampling	Total/NA
Field Temperature	11.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	26.7				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
Detection Summary
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_070&D (Continued)

Lab Sample ID: 500-246480-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.30				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2781				umhos/cm	1		Field Sampling	Total/NA
Turbidity	19.56				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_NED1

Lab Sample ID: 500-246480-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.24		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total
Arsenic	0.040		0.010	0.0023	mg/L	10		6020B	Recoverable Total
Barium	0.13		0.0025	0.00073	mg/L	1		6020B	Recoverable Total
Boron	10	B	0.50	0.13	mg/L	10		6020B	Recoverable Total
Calcium	470		2.0	0.44	mg/L	10		6020B	Recoverable Total
Lead	0.00034	J	0.00050	0.00019	mg/L	1		6020B	Recoverable Total
Magnesium	35		0.20	0.049	mg/L	1		6020B	Recoverable Total
Molybdenum	0.054		0.0050	0.0025	mg/L	1		6020B	Recoverable Total
Potassium	25		5.0	1.1	mg/L	10		6020B	Recoverable Total
Sodium	84		2.0	0.77	mg/L	10		6020B	Recoverable Total
Chloride	13		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	1300		100	21	mg/L	100		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	100	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2200		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.099	J	0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	2.32				ft	1		Field Sampling	Total/NA
Field pH	7.78				SU	1		Field Sampling	Total/NA
Field Temperature	10.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-194.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.00				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1721				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.63				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_FB

Lab Sample ID: 500-246480-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.063	B	0.050	0.013	mg/L	1		6020B	Total
Calcium	0.057	J	0.20	0.044	mg/L	1		6020B	Recoverable Total
Lead	0.0011		0.00050	0.00019	mg/L	1		6020B	Recoverable Total
Sodium	0.11	J	0.20	0.077	mg/L	1		6020B	Recoverable Total
Chloride	0.21	J	1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	0.40	J	1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	4.0	J	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	12		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_EB2

Lab Sample ID: 500-246480-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.049	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	0.044	J	0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00040	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	0.21	J *+	1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	0.34	J B	1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	8.7		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	36		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912

Method Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-5
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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912

Sample Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-5
SDG: VER_845_912

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-246480-5	VER_010	Water	02/20/24 17:55	02/21/24 11:20
500-246480-21	VER_EB1	Water	02/20/24 17:50	02/21/24 11:20
500-246480-25	VER_016A	Water	02/21/24 13:15	02/22/24 11:18
500-246480-26	VER_022	Water	02/21/24 11:10	02/22/24 11:18
500-246480-27	VER_035&D	Water	02/21/24 13:05	02/22/24 11:18
500-246480-29	VER_070#S	Water	02/21/24 09:20	02/22/24 11:18
500-246480-30	VER_070&D	Water	02/21/24 08:45	02/22/24 11:18
500-246480-31	VER_NED1	Water	02/21/24 15:00	02/22/24 11:18
500-246480-32	VER_FB	Water	02/21/24 15:20	02/22/24 11:18
500-246480-33	VER_EB2	Water	02/21/24 15:50	02/22/24 11:18

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Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-5
VER-845-912
SDG: VER_845_912

Client Sample ID: VER_010

Lab Sample ID: 500-246480-5

Date Collected: 02/20/24 17:55

Matrix: Water

Date Received: 02/21/24 11:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.0050	0.0020	mg/L		03/05/24 08:58	03/06/24 21:12	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		03/05/24 17:38	03/11/24 17:54	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		03/05/24 17:38	03/11/24 17:54	1
Barium	0.076		0.0025	0.00073	mg/L		03/05/24 17:38	03/11/24 17:54	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		03/05/24 17:38	03/14/24 17:43	1
Boron	0.068	B	0.050	0.013	mg/L		03/05/24 17:38	03/14/24 17:43	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		03/05/24 17:38	03/11/24 17:54	1
Calcium	180	B	0.20	0.044	mg/L		03/05/24 17:38	03/14/24 17:43	1
Chromium	0.0024	J	0.0050	0.0011	mg/L		03/05/24 17:38	03/11/24 17:54	1
Cobalt	0.0032		0.0010	0.00040	mg/L		03/05/24 17:38	03/14/24 17:43	1
Lead	<0.00050		0.00050	0.00019	mg/L		03/05/24 17:38	03/08/24 00:44	1
Magnesium	100		0.20	0.049	mg/L		03/05/24 17:38	03/08/24 00:44	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		03/05/24 17:38	03/08/24 00:44	1
Potassium	1.6		0.50	0.11	mg/L		03/05/24 17:38	03/08/24 00:44	1
Selenium	0.0013	J	0.0025	0.00098	mg/L		03/05/24 17:38	03/11/24 17:54	1
Sodium	11		0.20	0.077	mg/L		03/05/24 17:38	03/14/24 17:43	1
Thallium	<0.0020		0.0020	0.00057	mg/L		03/05/24 17:38	03/08/24 00:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/05/24 10:40	03/06/24 07:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	3.5		1.0	0.12	mg/L			03/02/24 15:34	1
Sulfate (EPA 300.0)	300		10	2.1	mg/L			03/02/24 15:49	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	540	B	5.0	3.7	mg/L			03/05/24 16:37	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			03/05/24 16:37	1
Total Dissolved Solids (SM 2540C)	1100		10	4.3	mg/L			02/23/24 00:19	1
Fluoride (SM 4500 F C)	0.13		0.10	0.056	mg/L			03/07/24 15:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	49.31				ft			02/20/24 17:55	1
Field pH	6.82				SU			02/20/24 17:55	1
Field Temperature	12.7				Degrees C			02/20/24 17:55	1
Oxidation Reduction Potential	28.8				millivolts			02/20/24 17:55	1
Oxygen, Dissolved	3.11				mg/L			02/20/24 17:55	1
Specific Conductance	1099				umhos/cm			02/20/24 17:55	1
Turbidity	8.45				NTU			02/20/24 17:55	1

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_EB1

Lab Sample ID: 500-246480-21

Date Collected: 02/20/24 17:50

Matrix: Water

Date Received: 02/21/24 11:20

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		03/05/24 09:00	03/06/24 23:53	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		03/06/24 09:08	03/08/24 02:39	1
Arsenic	<0.0010	^+	0.0010	0.00023	mg/L		03/06/24 09:08	03/11/24 20:36	1
Barium	<0.0025		0.0025	0.00073	mg/L		03/06/24 09:08	03/08/24 02:39	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		03/06/24 09:08	03/14/24 16:22	1
Boron	0.020	J B	0.050	0.013	mg/L		03/06/24 09:08	03/14/24 16:22	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		03/06/24 09:08	03/11/24 20:36	1
Calcium	<0.20		0.20	0.044	mg/L		03/06/24 09:08	03/14/24 16:22	1
Chromium	<0.0050		0.0050	0.0011	mg/L		03/06/24 09:08	03/14/24 16:22	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		03/06/24 09:08	03/08/24 02:39	1
Lead	0.00045	J	0.00050	0.00019	mg/L		03/06/24 09:08	03/08/24 02:39	1
Magnesium	<0.20		0.20	0.049	mg/L		03/06/24 09:08	03/08/24 02:39	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		03/06/24 09:08	03/08/24 02:39	1
Potassium	<0.50		0.50	0.11	mg/L		03/06/24 09:08	03/08/24 02:39	1
Selenium	<0.0025		0.0025	0.00098	mg/L		03/06/24 09:08	03/14/24 16:22	1
Sodium	<0.20		0.20	0.077	mg/L		03/06/24 09:08	03/14/24 16:22	1
Thallium	<0.0020		0.0020	0.00057	mg/L		03/06/24 09:08	03/08/24 02:39	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/06/24 10:55	03/07/24 08:37	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			03/06/24 11:27	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			03/06/24 11:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	6.3		5.0	3.7	mg/L			03/05/24 19:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			03/05/24 19:47	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			02/26/24 22:53	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			03/07/24 17:18	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_016A

Lab Sample ID: 500-246480-25

Date Collected: 02/21/24 13:15

Matrix: Water

Date Received: 02/22/24 11:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.046		0.0050	0.0020	mg/L		03/05/24 09:00	03/07/24 00:20	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		03/06/24 09:08	03/08/24 02:53	1
Arsenic	0.0053		0.0010	0.00023	mg/L		03/06/24 09:08	03/15/24 14:12	1
Barium	0.34		0.0025	0.00073	mg/L		03/06/24 09:08	03/08/24 02:53	1
Beryllium	0.00061	J	0.0010	0.00053	mg/L		03/06/24 09:08	03/14/24 16:46	1
Boron	0.62	B	0.050	0.013	mg/L		03/06/24 09:08	03/14/24 16:46	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		03/06/24 09:08	03/11/24 21:06	1
Calcium	30		0.20	0.044	mg/L		03/06/24 09:08	03/14/24 16:46	1
Chromium	0.014		0.0050	0.0011	mg/L		03/06/24 09:08	03/14/24 16:46	1
Cobalt	0.011		0.0010	0.00040	mg/L		03/06/24 09:08	03/08/24 02:53	1
Lead	0.0081		0.00050	0.00019	mg/L		03/06/24 09:08	03/08/24 02:53	1
Magnesium	21		0.20	0.049	mg/L		03/06/24 09:08	03/08/24 02:53	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		03/06/24 09:08	03/08/24 02:53	1
Potassium	3.8		0.50	0.11	mg/L		03/06/24 09:08	03/08/24 02:53	1
Selenium	<0.0025		0.0025	0.00098	mg/L		03/06/24 09:08	03/15/24 14:12	1
Sodium	170		0.20	0.077	mg/L		03/06/24 09:08	03/14/24 16:46	1
Thallium	<0.0020		0.0020	0.00057	mg/L		03/06/24 09:08	03/08/24 02:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/06/24 10:55	03/07/24 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	140	B	10	1.2	mg/L			03/12/24 12:32	10
Sulfate (EPA 300.0)	5.2		1.0	0.21	mg/L			03/06/24 12:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	380		5.0	3.7	mg/L			03/05/24 21:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			03/05/24 21:25	1
Total Dissolved Solids (SM 2540C)	650		10	4.3	mg/L			02/26/24 23:03	1
Fluoride (SM 4500 F C)	0.87		0.10	0.056	mg/L			03/07/24 17:46	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	12.13				ft			02/21/24 13:15	1
Field pH	7.68				SU			02/21/24 13:15	1
Field Temperature	12.1				Degrees C			02/21/24 13:15	1
Oxidation Reduction Potential	-101.8				millivolts			02/21/24 13:15	1
Oxygen, Dissolved	2.86				mg/L			02/21/24 13:15	1
Specific Conductance	1032				umhos/cm			02/21/24 13:15	1
Turbidity	135.54				NTU			02/21/24 13:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_022

Lab Sample ID: 500-246480-26

Date Collected: 02/21/24 11:10

Matrix: Water

Date Received: 02/22/24 11:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.028		0.0050	0.0020	mg/L		03/05/24 09:00	03/07/24 00:24	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		03/06/24 09:08	03/08/24 02:56	1
Arsenic	<0.0010	^+	0.0010	0.00023	mg/L		03/06/24 09:08	03/11/24 21:10	1
Barium	0.084		0.0025	0.00073	mg/L		03/06/24 09:08	03/08/24 02:56	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		03/06/24 09:08	03/14/24 16:50	1
Boron	0.40	B	0.050	0.013	mg/L		03/06/24 09:08	03/14/24 16:50	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		03/06/24 09:08	03/11/24 21:10	1
Calcium	46		0.20	0.044	mg/L		03/06/24 09:08	03/14/24 16:50	1
Chromium	<0.0050		0.0050	0.0011	mg/L		03/06/24 09:08	03/14/24 16:50	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		03/06/24 09:08	03/08/24 02:56	1
Lead	0.00019	J	0.00050	0.00019	mg/L		03/06/24 09:08	03/08/24 02:56	1
Magnesium	25		0.20	0.049	mg/L		03/06/24 09:08	03/08/24 02:56	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		03/06/24 09:08	03/08/24 02:56	1
Potassium	2.5		0.50	0.11	mg/L		03/06/24 09:08	03/08/24 02:56	1
Selenium	<0.0025		0.0025	0.00098	mg/L		03/06/24 09:08	03/14/24 16:50	1
Sodium	120		0.20	0.077	mg/L		03/06/24 09:08	03/14/24 16:50	1
Thallium	<0.0020		0.0020	0.00057	mg/L		03/06/24 09:08	03/08/24 02:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/06/24 10:55	03/07/24 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	7.7		1.0	0.12	mg/L			03/06/24 12:42	1
Sulfate (EPA 300.0)	29		1.0	0.21	mg/L			03/06/24 12:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	410		5.0	3.7	mg/L			03/05/24 21:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			03/05/24 21:45	1
Total Dissolved Solids (SM 2540C)	490		10	4.3	mg/L			02/26/24 23:06	1
Fluoride (SM 4500 F C)	0.37		0.10	0.056	mg/L			03/07/24 18:03	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	55.29				ft			02/21/24 11:10	1
Field pH	7.40				SU			02/21/24 11:10	1
Field Temperature	13.2				Degrees C			02/21/24 11:10	1
Oxidation Reduction Potential	-73.5				millivolts			02/21/24 11:10	1
Oxygen, Dissolved	0.12				mg/L			02/21/24 11:10	1
Specific Conductance	623				umhos/cm			02/21/24 11:10	1
Turbidity	6.4				NTU			02/21/24 11:10	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-5
VER-845-912
SDG: VER_845_912

Client Sample ID: VER_035&D

Lab Sample ID: 500-246480-27

Date Collected: 02/21/24 13:05

Matrix: Water

Date Received: 02/22/24 11:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.13		0.0050	0.0020	mg/L		03/05/24 09:00	03/07/24 00:28	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		03/06/24 09:08	03/08/24 03:10	1
Arsenic	0.0023	J	0.010	0.0023	mg/L		03/06/24 09:08	03/14/24 16:53	10
Barium	0.026		0.0025	0.00073	mg/L		03/06/24 09:08	03/11/24 21:13	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		03/06/24 09:08	03/15/24 14:16	1
Boron	2.1	B	0.50	0.13	mg/L		03/06/24 09:08	03/14/24 16:53	10
Cadmium	<0.00050		0.00050	0.00017	mg/L		03/06/24 09:08	03/11/24 21:13	1
Calcium	110		2.0	0.44	mg/L		03/06/24 09:08	03/14/24 16:53	10
Chromium	<0.0050		0.0050	0.0011	mg/L		03/06/24 09:08	03/15/24 14:16	1
Cobalt	<0.0010	^+	0.0010	0.00040	mg/L		03/06/24 09:08	03/08/24 03:10	1
Lead	0.00029	J	0.00050	0.00019	mg/L		03/06/24 09:08	03/08/24 03:10	1
Magnesium	93		0.20	0.049	mg/L		03/06/24 09:08	03/08/24 03:10	1
Molybdenum	0.0035	J	0.0050	0.0025	mg/L		03/06/24 09:08	03/08/24 03:10	1
Potassium	8.8		5.0	1.1	mg/L		03/06/24 09:08	03/14/24 16:53	10
Selenium	<0.0025		0.0025	0.00098	mg/L		03/06/24 09:08	03/15/24 14:16	1
Sodium	1100		2.0	0.77	mg/L		03/06/24 09:08	03/14/24 16:53	10
Thallium	<0.0020		0.0020	0.00057	mg/L		03/06/24 09:08	03/08/24 03:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/06/24 10:55	03/07/24 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	440	B	100	12	mg/L			03/12/24 12:47	100
Sulfate (EPA 300.0)	1600		100	21	mg/L			03/09/24 23:51	100
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	630	B	5.0	3.7	mg/L			03/05/24 22:11	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			03/05/24 22:11	1
Total Dissolved Solids (SM 2540C)	3900		10	4.3	mg/L			02/26/24 23:08	1
Fluoride (SM 4500 F C)	0.70		0.10	0.056	mg/L			03/07/24 18:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	10.15				ft			02/21/24 13:05	1
Field pH	7.42				SU			02/21/24 13:05	1
Field Temperature	12.5				Degrees C			02/21/24 13:05	1
Oxidation Reduction Potential	-16.2				millivolts			02/21/24 13:05	1
Oxygen, Dissolved	0.14				mg/L			02/21/24 13:05	1
Specific Conductance	4000				umhos/cm			02/21/24 13:05	1
Turbidity	31.0				NTU			02/21/24 13:05	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_070#S

Lab Sample ID: 500-246480-29

Date Collected: 02/21/24 09:20

Matrix: Water

Date Received: 02/22/24 11:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0093		0.0050	0.0020	mg/L		03/05/24 09:00	03/07/24 00:37	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		03/06/24 09:08	03/08/24 03:17	1
Arsenic	0.00032	J	0.0010	0.00023	mg/L		03/06/24 09:08	03/14/24 17:00	1
Barium	0.024		0.0025	0.00073	mg/L		03/06/24 09:08	03/11/24 21:34	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		03/06/24 09:08	03/14/24 17:00	1
Boron	0.43	B	0.050	0.013	mg/L		03/06/24 09:08	03/14/24 17:00	1
Cadmium	0.00026	J	0.00050	0.00017	mg/L		03/06/24 09:08	03/11/24 21:34	1
Calcium	210		0.20	0.044	mg/L		03/06/24 09:08	03/14/24 17:00	1
Chromium	<0.0050		0.0050	0.0011	mg/L		03/06/24 09:08	03/14/24 17:00	1
Cobalt	<0.0010	^+	0.0010	0.00040	mg/L		03/06/24 09:08	03/08/24 03:17	1
Lead	<0.00050		0.00050	0.00019	mg/L		03/06/24 09:08	03/08/24 03:17	1
Magnesium	90		0.20	0.049	mg/L		03/06/24 09:08	03/08/24 03:17	1
Molybdenum	0.0034	J	0.0050	0.0025	mg/L		03/06/24 09:08	03/08/24 03:17	1
Potassium	1.8		0.50	0.11	mg/L		03/06/24 09:08	03/14/24 17:00	1
Selenium	<0.0025		0.0025	0.00098	mg/L		03/06/24 09:08	03/14/24 17:00	1
Sodium	19		0.20	0.077	mg/L		03/06/24 09:08	03/14/24 17:00	1
Thallium	<0.0020		0.0020	0.00057	mg/L		03/06/24 09:08	03/08/24 03:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/06/24 10:55	03/07/24 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	11		1.0	0.12	mg/L			03/06/24 13:58	1
Sulfate (EPA 300.0)	600		50	10	mg/L			03/10/24 00:21	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	310	B	5.0	3.7	mg/L			03/05/24 22:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			03/05/24 22:32	1
Total Dissolved Solids (SM 2540C)	1200		10	4.3	mg/L			02/26/24 23:14	1
Fluoride (SM 4500 F C)	0.13		0.10	0.056	mg/L			03/07/24 18:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	11.12				ft			02/21/24 09:20	1
Field pH	6.93				SU			02/21/24 09:20	1
Field Temperature	11.0				Degrees C			02/21/24 09:20	1
Oxidation Reduction Potential	68.4				millivolts			02/21/24 09:20	1
Oxygen, Dissolved	0.22				mg/L			02/21/24 09:20	1
Specific Conductance	1298				umhos/cm			02/21/24 09:20	1
Turbidity	6.82				NTU			02/21/24 09:20	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-5
VER-845-912
SDG: VER_845_912

Client Sample ID: VER_070&D

Lab Sample ID: 500-246480-30

Date Collected: 02/21/24 08:45

Matrix: Water

Date Received: 02/22/24 11:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.097		0.0050	0.0020	mg/L		03/05/24 09:00	03/07/24 00:41	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		03/06/24 09:08	03/08/24 03:20	1
Arsenic	0.00058	J	0.0010	0.00023	mg/L		03/06/24 09:08	03/14/24 17:03	1
Barium	0.68		0.0025	0.00073	mg/L		03/06/24 09:08	03/11/24 21:37	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		03/06/24 09:08	03/14/24 17:03	1
Boron	1.5	B	0.050	0.013	mg/L		03/06/24 09:08	03/14/24 17:03	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		03/06/24 09:08	03/11/24 21:37	1
Calcium	84		0.20	0.044	mg/L		03/06/24 09:08	03/14/24 17:03	1
Chromium	0.0035	J	0.0050	0.0011	mg/L		03/06/24 09:08	03/14/24 17:03	1
Cobalt	0.0027		0.0010	0.00040	mg/L		03/06/24 09:08	03/14/24 17:03	1
Lead	0.0020		0.00050	0.00019	mg/L		03/06/24 09:08	03/08/24 03:20	1
Magnesium	49		0.20	0.049	mg/L		03/06/24 09:08	03/08/24 03:20	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		03/06/24 09:08	03/08/24 03:20	1
Potassium	7.4		0.50	0.11	mg/L		03/06/24 09:08	03/14/24 17:03	1
Selenium	<0.0025	^+	0.0025	0.00098	mg/L		03/06/24 09:08	03/08/24 03:20	1
Sodium	620		0.20	0.077	mg/L		03/06/24 09:08	03/14/24 17:03	1
Thallium	<0.0020		0.0020	0.00057	mg/L		03/06/24 09:08	03/08/24 03:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/06/24 10:55	03/07/24 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	730	B	100	12	mg/L			03/12/24 13:17	100
Sulfate (EPA 300.0)	43		1.0	0.21	mg/L			03/06/24 14:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	490	B	5.0	3.7	mg/L			03/05/24 22:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			03/05/24 22:41	1
Total Dissolved Solids (SM 2540C)	1900		10	4.3	mg/L			02/26/24 23:16	1
Fluoride (SM 4500 F C)	0.40		0.10	0.056	mg/L			03/07/24 18:37	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	31.83				ft			02/21/24 08:45	1
Field pH	6.91				SU			02/21/24 08:45	1
Field Temperature	11.7				Degrees C			02/21/24 08:45	1
Oxidation Reduction Potential	26.7				millivolts			02/21/24 08:45	1
Oxygen, Dissolved	0.30				mg/L			02/21/24 08:45	1
Specific Conductance	2781				umhos/cm			02/21/24 08:45	1
Turbidity	19.56				NTU			02/21/24 08:45	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_NED1

Lab Sample ID: 500-246480-31

Date Collected: 02/21/24 15:00

Matrix: Water

Date Received: 02/22/24 11:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.24		0.0050	0.0020	mg/L		03/05/24 09:00	03/07/24 00:46	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		03/06/24 09:08	03/08/24 03:24	1
Arsenic	0.040		0.010	0.0023	mg/L		03/06/24 09:08	03/14/24 17:07	10
Barium	0.13		0.0025	0.00073	mg/L		03/06/24 09:08	03/11/24 21:41	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		03/06/24 09:08	03/15/24 14:23	1
Boron	10	B	0.50	0.13	mg/L		03/06/24 09:08	03/14/24 17:07	10
Cadmium	<0.00050		0.00050	0.00017	mg/L		03/06/24 09:08	03/11/24 21:41	1
Calcium	470		2.0	0.44	mg/L		03/06/24 09:08	03/14/24 17:07	10
Chromium	<0.0050		0.0050	0.0011	mg/L		03/06/24 09:08	03/15/24 14:23	1
Cobalt	<0.0010	^+	0.0010	0.00040	mg/L		03/06/24 09:08	03/08/24 03:24	1
Lead	0.00034	J	0.00050	0.00019	mg/L		03/06/24 09:08	03/08/24 03:24	1
Magnesium	35		0.20	0.049	mg/L		03/06/24 09:08	03/08/24 03:24	1
Molybdenum	0.054		0.0050	0.0025	mg/L		03/06/24 09:08	03/08/24 03:24	1
Potassium	25		5.0	1.1	mg/L		03/06/24 09:08	03/14/24 17:07	10
Selenium	<0.0025		0.0025	0.00098	mg/L		03/06/24 09:08	03/15/24 14:23	1
Sodium	84		2.0	0.77	mg/L		03/06/24 09:08	03/14/24 17:07	10
Thallium	<0.0020		0.0020	0.00057	mg/L		03/06/24 09:08	03/08/24 03:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/06/24 10:55	03/07/24 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	13		1.0	0.12	mg/L			03/06/24 14:28	1
Sulfate (EPA 300.0)	1300		100	21	mg/L			03/10/24 00:51	100
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	100	B	5.0	3.7	mg/L			03/05/24 22:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			03/05/24 22:51	1
Total Dissolved Solids (SM 2540C)	2200		10	4.3	mg/L			02/26/24 23:19	1
Fluoride (SM 4500 F C)	0.099	J	0.10	0.056	mg/L			03/07/24 18:41	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	2.32				ft			02/21/24 15:00	1
Field pH	7.78				SU			02/21/24 15:00	1
Field Temperature	10.6				Degrees C			02/21/24 15:00	1
Oxidation Reduction Potential	-194.1				millivolts			02/21/24 15:00	1
Oxygen, Dissolved	0.00				mg/L			02/21/24 15:00	1
Specific Conductance	1721				umhos/cm			02/21/24 15:00	1
Turbidity	4.63				NTU			02/21/24 15:00	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_FB

Lab Sample ID: 500-246480-32

Date Collected: 02/21/24 15:20

Matrix: Water

Date Received: 02/22/24 11:18

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		03/05/24 09:00	03/07/24 00:50	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		03/06/24 09:08	03/08/24 03:27	1
Arsenic	<0.0010	^+	0.0010	0.00023	mg/L		03/06/24 09:08	03/11/24 21:48	1
Barium	<0.0025	^+	0.0025	0.00073	mg/L		03/06/24 09:08	03/08/24 03:27	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		03/06/24 09:08	03/14/24 17:10	1
Boron	0.063	B	0.050	0.013	mg/L		03/06/24 09:08	03/14/24 17:10	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		03/06/24 09:08	03/11/24 21:48	1
Calcium	0.057	J	0.20	0.044	mg/L		03/06/24 09:08	03/14/24 17:10	1
Chromium	<0.0050		0.0050	0.0011	mg/L		03/06/24 09:08	03/14/24 17:10	1
Cobalt	<0.0010	^+	0.0010	0.00040	mg/L		03/06/24 09:08	03/08/24 03:27	1
Lead	0.0011		0.00050	0.00019	mg/L		03/06/24 09:08	03/08/24 03:27	1
Magnesium	<0.20		0.20	0.049	mg/L		03/06/24 09:08	03/08/24 03:27	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		03/06/24 09:08	03/08/24 03:27	1
Potassium	<0.50		0.50	0.11	mg/L		03/06/24 09:08	03/14/24 17:10	1
Selenium	<0.0025		0.0025	0.00098	mg/L		03/06/24 09:08	03/14/24 17:10	1
Sodium	0.11	J	0.20	0.077	mg/L		03/06/24 09:08	03/14/24 17:10	1
Thallium	<0.0020		0.0020	0.00057	mg/L		03/06/24 09:08	03/08/24 03:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/06/24 10:55	03/07/24 07:08	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			03/06/24 14:44	1
Sulfate (EPA 300.0)	0.40	J	1.0	0.21	mg/L			03/06/24 14:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	4.0	J	5.0	3.7	mg/L			03/06/24 17:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			03/06/24 17:26	1
Total Dissolved Solids (SM 2540C)	12		10	4.3	mg/L			02/26/24 23:21	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			03/07/24 18:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_EB2

Lab Sample ID: 500-246480-33

Date Collected: 02/21/24 15:50

Matrix: Water

Date Received: 02/22/24 11:18

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		03/05/24 09:00	03/07/24 00:54	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		03/06/24 09:08	03/08/24 03:31	1
Arsenic	<0.0010	^+	0.0010	0.00023	mg/L		03/06/24 09:08	03/11/24 21:51	1
Barium	<0.0025	^+	0.0025	0.00073	mg/L		03/06/24 09:08	03/08/24 03:31	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		03/06/24 09:08	03/14/24 17:14	1
Boron	0.049	J B	0.050	0.013	mg/L		03/06/24 09:08	03/14/24 17:14	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		03/06/24 09:08	03/11/24 21:51	1
Calcium	0.044	J	0.20	0.044	mg/L		03/06/24 09:08	03/14/24 17:14	1
Chromium	<0.0050		0.0050	0.0011	mg/L		03/06/24 09:08	03/14/24 17:14	1
Cobalt	<0.0010	^+	0.0010	0.00040	mg/L		03/06/24 09:08	03/08/24 03:31	1
Lead	0.00040	J	0.00050	0.00019	mg/L		03/06/24 09:08	03/08/24 03:31	1
Magnesium	<0.20		0.20	0.049	mg/L		03/06/24 09:08	03/08/24 03:31	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		03/06/24 09:08	03/08/24 03:31	1
Potassium	<0.50		0.50	0.11	mg/L		03/06/24 09:08	03/14/24 17:14	1
Selenium	<0.0025		0.0025	0.00098	mg/L		03/06/24 09:08	03/14/24 17:14	1
Sodium	<0.20		0.20	0.077	mg/L		03/06/24 09:08	03/14/24 17:14	1
Thallium	<0.0020		0.0020	0.00057	mg/L		03/06/24 09:08	03/08/24 03:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/06/24 10:55	03/07/24 07:10	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			03/07/24 08:10	1
Sulfate (EPA 300.0)	0.34	J B	1.0	0.21	mg/L			03/07/24 08:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	8.7		5.0	3.7	mg/L			03/06/24 17:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			03/06/24 17:33	1
Total Dissolved Solids (SM 2540C)	36		10	4.3	mg/L			02/26/24 23:24	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			03/07/24 19:02	1

Client: Vistra Energy Corp
 Project/Site: VER-24Q1

Job ID: 500-246480-5
 SDG: VER_845_912

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.

Glossary

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

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-5
SDG: VER_845_912

Metals

Prep Batch: 756864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total Recoverable	Water	200.7	
MB 500-756864/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-756864/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 756867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-21	VER_EB1	Total Recoverable	Water	200.7	
500-246480-25	VER_016A	Total Recoverable	Water	200.7	
500-246480-26	VER_022	Total Recoverable	Water	200.7	
500-246480-27	VER_035&D	Total Recoverable	Water	200.7	
500-246480-29	VER_070#S	Total Recoverable	Water	200.7	
500-246480-30	VER_070&D	Total Recoverable	Water	200.7	
500-246480-31	VER_NED1	Total Recoverable	Water	200.7	
500-246480-32	VER_FB	Total Recoverable	Water	200.7	
500-246480-33	VER_EB2	Total Recoverable	Water	200.7	
MB 500-756867/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-756867/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 756906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total/NA	Water	7470A	
MB 500-756906/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-756906/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 756958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total Recoverable	Water	3005A	
MB 500-756958/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-756958/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 757078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-21	VER_EB1	Total Recoverable	Water	3005A	
500-246480-25	VER_016A	Total Recoverable	Water	3005A	
500-246480-26	VER_022	Total Recoverable	Water	3005A	
500-246480-27	VER_035&D	Total Recoverable	Water	3005A	
500-246480-29	VER_070#S	Total Recoverable	Water	3005A	
500-246480-30	VER_070&D	Total Recoverable	Water	3005A	
500-246480-31	VER_NED1	Total Recoverable	Water	3005A	
500-246480-32	VER_FB	Total Recoverable	Water	3005A	
500-246480-33	VER_EB2	Total Recoverable	Water	3005A	
MB 500-757078/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-757078/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 757117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-21	VER_EB1	Total/NA	Water	7470A	
500-246480-25	VER_016A	Total/NA	Water	7470A	
500-246480-26	VER_022	Total/NA	Water	7470A	
500-246480-27	VER_035&D	Total/NA	Water	7470A	
500-246480-29	VER_070#S	Total/NA	Water	7470A	

Eurofins Chicago

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

Metals (Continued)

Prep Batch: 757117 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-30	VER_070&D	Total/NA	Water	7470A	
500-246480-31	VER_NED1	Total/NA	Water	7470A	
MB 500-757117/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-757117/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 757118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-32	VER_FB	Total/NA	Water	7470A	
500-246480-33	VER_EB2	Total/NA	Water	7470A	
MB 500-757118/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-757118/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 757131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total/NA	Water	7470A	756906
MB 500-756906/12-A	Method Blank	Total/NA	Water	7470A	756906
LCS 500-756906/13-A	Lab Control Sample	Total/NA	Water	7470A	756906

Analysis Batch: 757263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total Recoverable	Water	200.7 Rev 4.4	756864
500-246480-21	VER_EB1	Total Recoverable	Water	200.7 Rev 4.4	756867
500-246480-25	VER_016A	Total Recoverable	Water	200.7 Rev 4.4	756867
500-246480-26	VER_022	Total Recoverable	Water	200.7 Rev 4.4	756867
500-246480-27	VER_035&D	Total Recoverable	Water	200.7 Rev 4.4	756867
500-246480-29	VER_070#S	Total Recoverable	Water	200.7 Rev 4.4	756867
500-246480-30	VER_070&D	Total Recoverable	Water	200.7 Rev 4.4	756867
500-246480-31	VER_NED1	Total Recoverable	Water	200.7 Rev 4.4	756867
500-246480-32	VER_FB	Total Recoverable	Water	200.7 Rev 4.4	756867
500-246480-33	VER_EB2	Total Recoverable	Water	200.7 Rev 4.4	756867
MB 500-756864/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	756864
MB 500-756867/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	756867
LCS 500-756864/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	756864
LCS 500-756867/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	756867

Analysis Batch: 757337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-21	VER_EB1	Total/NA	Water	7470A	757117
500-246480-25	VER_016A	Total/NA	Water	7470A	757117
500-246480-26	VER_022	Total/NA	Water	7470A	757117
500-246480-27	VER_035&D	Total/NA	Water	7470A	757117
500-246480-29	VER_070#S	Total/NA	Water	7470A	757117
500-246480-30	VER_070&D	Total/NA	Water	7470A	757117
500-246480-31	VER_NED1	Total/NA	Water	7470A	757117
500-246480-32	VER_FB	Total/NA	Water	7470A	757118
500-246480-33	VER_EB2	Total/NA	Water	7470A	757118
MB 500-757117/12-A	Method Blank	Total/NA	Water	7470A	757117
MB 500-757118/12-A	Method Blank	Total/NA	Water	7470A	757118
LCS 500-757117/13-A	Lab Control Sample	Total/NA	Water	7470A	757117
LCS 500-757118/13-A	Lab Control Sample	Total/NA	Water	7470A	757118

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-5
SDG: VER_845_912

Metals

Analysis Batch: 757459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total Recoverable	Water	6020B	756958
500-246480-21	VER_EB1	Total Recoverable	Water	6020B	757078
500-246480-25	VER_016A	Total Recoverable	Water	6020B	757078
500-246480-26	VER_022	Total Recoverable	Water	6020B	757078
500-246480-27	VER_035&D	Total Recoverable	Water	6020B	757078
500-246480-29	VER_070#S	Total Recoverable	Water	6020B	757078
500-246480-30	VER_070&D	Total Recoverable	Water	6020B	757078
500-246480-31	VER_NED1	Total Recoverable	Water	6020B	757078
500-246480-32	VER_FB	Total Recoverable	Water	6020B	757078
500-246480-33	VER_EB2	Total Recoverable	Water	6020B	757078
MB 500-756958/1-A	Method Blank	Total Recoverable	Water	6020B	756958
MB 500-757078/1-A	Method Blank	Total Recoverable	Water	6020B	757078
LCS 500-756958/2-A	Lab Control Sample	Total Recoverable	Water	6020B	756958
LCS 500-757078/2-A	Lab Control Sample	Total Recoverable	Water	6020B	757078

Analysis Batch: 757847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total Recoverable	Water	6020B	756958
500-246480-21	VER_EB1	Total Recoverable	Water	6020B	757078
500-246480-25	VER_016A	Total Recoverable	Water	6020B	757078
500-246480-26	VER_022	Total Recoverable	Water	6020B	757078
500-246480-27	VER_035&D	Total Recoverable	Water	6020B	757078
500-246480-29	VER_070#S	Total Recoverable	Water	6020B	757078
500-246480-30	VER_070&D	Total Recoverable	Water	6020B	757078
500-246480-31	VER_NED1	Total Recoverable	Water	6020B	757078
500-246480-32	VER_FB	Total Recoverable	Water	6020B	757078
500-246480-33	VER_EB2	Total Recoverable	Water	6020B	757078
MB 500-756958/1-A	Method Blank	Total Recoverable	Water	6020B	756958
MB 500-757078/1-A	Method Blank	Total Recoverable	Water	6020B	757078
LCS 500-756958/2-A	Lab Control Sample	Total Recoverable	Water	6020B	756958
LCS 500-757078/2-A	Lab Control Sample	Total Recoverable	Water	6020B	757078

Analysis Batch: 758475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total Recoverable	Water	6020B	756958
500-246480-21	VER_EB1	Total Recoverable	Water	6020B	757078
500-246480-25	VER_016A	Total Recoverable	Water	6020B	757078
500-246480-26	VER_022	Total Recoverable	Water	6020B	757078
500-246480-27	VER_035&D	Total Recoverable	Water	6020B	757078
500-246480-29	VER_070#S	Total Recoverable	Water	6020B	757078
500-246480-30	VER_070&D	Total Recoverable	Water	6020B	757078
500-246480-31	VER_NED1	Total Recoverable	Water	6020B	757078
500-246480-32	VER_FB	Total Recoverable	Water	6020B	757078
500-246480-33	VER_EB2	Total Recoverable	Water	6020B	757078
MB 500-756958/1-A	Method Blank	Total Recoverable	Water	6020B	756958
MB 500-757078/1-A	Method Blank	Total Recoverable	Water	6020B	757078
LCS 500-756958/2-A	Lab Control Sample	Total Recoverable	Water	6020B	756958
LCS 500-757078/2-A	Lab Control Sample	Total Recoverable	Water	6020B	757078

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-5
VER-845-912
SDG: VER_845_912

Metals

Analysis Batch: 758529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-25	VER_016A	Total Recoverable	Water	6020B	757078
500-246480-27	VER_035&D	Total Recoverable	Water	6020B	757078
500-246480-31	VER_NED1	Total Recoverable	Water	6020B	757078

General Chemistry

Analysis Batch: 755368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total/NA	Water	SM 2540C	
MB 500-755368/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-755368/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 755755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-21	VER_EB1	Total/NA	Water	SM 2540C	
500-246480-25	VER_016A	Total/NA	Water	SM 2540C	
500-246480-26	VER_022	Total/NA	Water	SM 2540C	
500-246480-27	VER_035&D	Total/NA	Water	SM 2540C	
500-246480-29	VER_070#S	Total/NA	Water	SM 2540C	
500-246480-30	VER_070&D	Total/NA	Water	SM 2540C	
500-246480-31	VER_NED1	Total/NA	Water	SM 2540C	
500-246480-32	VER_FB	Total/NA	Water	SM 2540C	
500-246480-33	VER_EB2	Total/NA	Water	SM 2540C	
MB 500-755755/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-755755/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 756576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total/NA	Water	300.0	
500-246480-5	VER_010	Total/NA	Water	300.0	
MB 500-756576/3	Method Blank	Total/NA	Water	300.0	
LCS 500-756576/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 756942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-21	VER_EB1	Total/NA	Water	300.0	
500-246480-25	VER_016A	Total/NA	Water	300.0	
500-246480-26	VER_022	Total/NA	Water	300.0	
500-246480-29	VER_070#S	Total/NA	Water	300.0	
500-246480-30	VER_070&D	Total/NA	Water	300.0	
500-246480-31	VER_NED1	Total/NA	Water	300.0	
500-246480-32	VER_FB	Total/NA	Water	300.0	
MB 500-756942/3	Method Blank	Total/NA	Water	300.0	
LCS 500-756942/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 757067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total/NA	Water	SM 2320B	
500-246480-21	VER_EB1	Total/NA	Water	SM 2320B	
500-246480-25	VER_016A	Total/NA	Water	SM 2320B	
500-246480-26	VER_022	Total/NA	Water	SM 2320B	

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

General Chemistry (Continued)

Analysis Batch: 757067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-27	VER_035&D	Total/NA	Water	SM 2320B	
500-246480-29	VER_070#S	Total/NA	Water	SM 2320B	
500-246480-30	VER_070&D	Total/NA	Water	SM 2320B	
500-246480-31	VER_NED1	Total/NA	Water	SM 2320B	
MB 500-757067/11	Method Blank	Total/NA	Water	SM 2320B	
MB 500-757067/32	Method Blank	Total/NA	Water	SM 2320B	
MB 500-757067/57	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-757067/33	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-757067/58	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-757067/7	Lab Control Sample	Total/NA	Water	SM 2320B	
500-246480-25 DU	VER_016A	Total/NA	Water	SM 2320B	

Analysis Batch: 757150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-33	VER_EB2	Total/NA	Water	300.0	
MB 500-757150/3	Method Blank	Total/NA	Water	300.0	
LCS 500-757150/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 757258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-32	VER_FB	Total/NA	Water	SM 2320B	
500-246480-33	VER_EB2	Total/NA	Water	SM 2320B	
MB 500-757258/12	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-757258/8	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 757486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-27	VER_035&D	Total/NA	Water	300.0	
500-246480-29	VER_070#S	Total/NA	Water	300.0	
500-246480-31	VER_NED1	Total/NA	Water	300.0	
MB 500-757486/3	Method Blank	Total/NA	Water	300.0	
LCS 500-757486/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 757490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total/NA	Water	SM 4500 F C	
500-246480-21	VER_EB1	Total/NA	Water	SM 4500 F C	
500-246480-25	VER_016A	Total/NA	Water	SM 4500 F C	
500-246480-26	VER_022	Total/NA	Water	SM 4500 F C	
500-246480-27	VER_035&D	Total/NA	Water	SM 4500 F C	
500-246480-29	VER_070#S	Total/NA	Water	SM 4500 F C	
500-246480-30	VER_070&D	Total/NA	Water	SM 4500 F C	
500-246480-31	VER_NED1	Total/NA	Water	SM 4500 F C	
500-246480-32	VER_FB	Total/NA	Water	SM 4500 F C	
500-246480-33	VER_EB2	Total/NA	Water	SM 4500 F C	
MB 500-757490/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-757490/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-757490/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-757490/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-5
SDG: VER_845_912

General Chemistry

Analysis Batch: 757868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-25	VER_016A	Total/NA	Water	300.0	
500-246480-27	VER_035&D	Total/NA	Water	300.0	
500-246480-30	VER_070&D	Total/NA	Water	300.0	
MB 500-757868/9	Method Blank	Total/NA	Water	300.0	
LCS 500-757868/10	Lab Control Sample	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 755860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-5	VER_010	Total/NA	Water	Field Sampling	
500-246480-25	VER_016A	Total/NA	Water	Field Sampling	
500-246480-26	VER_022	Total/NA	Water	Field Sampling	
500-246480-27	VER_035&D	Total/NA	Water	Field Sampling	
500-246480-29	VER_070#S	Total/NA	Water	Field Sampling	
500-246480-30	VER_070&D	Total/NA	Water	Field Sampling	
500-246480-31	VER_NED1	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-756864/1-A
Matrix: Water
Analysis Batch: 757263

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 756864

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		03/05/24 08:58	03/06/24 20:46	1

Lab Sample ID: LCS 500-756864/2-A
Matrix: Water
Analysis Batch: 757263

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 756864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.234		mg/L		94	85 - 115

Lab Sample ID: MB 500-756867/1-A
Matrix: Water
Analysis Batch: 757263

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 756867

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		03/05/24 09:00	03/06/24 23:24	1

Lab Sample ID: LCS 500-756867/2-A
Matrix: Water
Analysis Batch: 757263

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 756867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.230		mg/L		92	85 - 115

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-756958/1-A
Matrix: Water
Analysis Batch: 757459

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 756958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00050		0.00050	0.00019	mg/L		03/05/24 17:38	03/08/24 00:16	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		03/05/24 17:38	03/08/24 00:16	1
Thallium	<0.0020		0.0020	0.00057	mg/L		03/05/24 17:38	03/08/24 00:16	1

Lab Sample ID: MB 500-756958/1-A
Matrix: Water
Analysis Batch: 757847

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 756958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		03/05/24 17:38	03/11/24 17:23	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		03/05/24 17:38	03/11/24 17:23	1
Barium	<0.0025		0.0025	0.00073	mg/L		03/05/24 17:38	03/11/24 17:23	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		03/05/24 17:38	03/11/24 17:23	1
Chromium	<0.0050		0.0050	0.0011	mg/L		03/05/24 17:38	03/11/24 17:23	1
Selenium	<0.0025		0.0025	0.00098	mg/L		03/05/24 17:38	03/11/24 17:23	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
8th QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

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

Lab Sample ID: MB 500-756958/1-A
Matrix: Water
Analysis Batch: 758475

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 756958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010		0.0010	0.00053	mg/L		03/05/24 17:38	03/14/24 17:17	1
Boron	0.0135	J	0.050	0.013	mg/L		03/05/24 17:38	03/14/24 17:17	1
Calcium	0.0492	J	0.20	0.044	mg/L		03/05/24 17:38	03/14/24 17:17	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		03/05/24 17:38	03/14/24 17:17	1
Magnesium	<0.20		0.20	0.049	mg/L		03/05/24 17:38	03/14/24 17:17	1
Potassium	<0.50		0.50	0.11	mg/L		03/05/24 17:38	03/14/24 17:17	1
Sodium	<0.20		0.20	0.077	mg/L		03/05/24 17:38	03/14/24 17:17	1

Lab Sample ID: LCS 500-756958/2-A
Matrix: Water
Analysis Batch: 757459

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 756958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.0916		mg/L		92	80 - 120
Molybdenum	1.00	0.976		mg/L		98	80 - 120
Thallium	0.100	0.0920		mg/L		92	80 - 120

Lab Sample ID: LCS 500-756958/2-A
Matrix: Water
Analysis Batch: 757847

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 756958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.533		mg/L		107	80 - 120
Arsenic	0.100	0.0959		mg/L		96	80 - 120
Barium	0.500	0.484		mg/L		97	80 - 120
Cadmium	0.0500	0.0477		mg/L		95	80 - 120
Chromium	0.200	0.188		mg/L		94	80 - 120
Selenium	0.100	0.0985		mg/L		99	80 - 120

Lab Sample ID: LCS 500-756958/2-A
Matrix: Water
Analysis Batch: 758475

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 756958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0469		mg/L		94	80 - 120
Boron	1.00	0.932		mg/L		93	80 - 120
Calcium	10.0	10.5		mg/L		105	80 - 120
Cobalt	0.500	0.493		mg/L		99	80 - 120
Magnesium	10.0	9.91		mg/L		99	80 - 120
Potassium	10.0	9.61		mg/L		96	80 - 120
Sodium	10.0	9.57		mg/L		96	80 - 120

Lab Sample ID: MB 500-757078/1-A
Matrix: Water
Analysis Batch: 757459

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 757078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		03/06/24 09:08	03/08/24 01:53	1
Barium	<0.0025		0.0025	0.00073	mg/L		03/06/24 09:08	03/08/24 01:53	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
8th QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

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

Lab Sample ID: MB 500-757078/1-A

Matrix: Water

Analysis Batch: 757459

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 757078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010	0.00040	mg/L		03/06/24 09:08	03/08/24 01:53	1
Lead	<0.00050		0.00050	0.00019	mg/L		03/06/24 09:08	03/08/24 01:53	1
Magnesium	<0.20		0.20	0.049	mg/L		03/06/24 09:08	03/08/24 01:53	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		03/06/24 09:08	03/08/24 01:53	1
Potassium	<0.50		0.50	0.11	mg/L		03/06/24 09:08	03/08/24 01:53	1
Thallium	<0.0020		0.0020	0.00057	mg/L		03/06/24 09:08	03/08/24 01:53	1

Lab Sample ID: MB 500-757078/1-A

Matrix: Water

Analysis Batch: 757847

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 757078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010	0.00023	mg/L		03/06/24 09:08	03/11/24 19:44	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		03/06/24 09:08	03/11/24 19:44	1
Chromium	0.00183	J	0.0050	0.0011	mg/L		03/06/24 09:08	03/11/24 19:44	1

Lab Sample ID: MB 500-757078/1-A

Matrix: Water

Analysis Batch: 758475

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 757078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010		0.0010	0.00053	mg/L		03/06/24 09:08	03/14/24 15:39	1
Boron	0.0281	J	0.050	0.013	mg/L		03/06/24 09:08	03/14/24 15:39	1
Calcium	<0.20		0.20	0.044	mg/L		03/06/24 09:08	03/14/24 15:39	1
Selenium	<0.0025		0.0025	0.00098	mg/L		03/06/24 09:08	03/14/24 15:39	1
Sodium	<0.20		0.20	0.077	mg/L		03/06/24 09:08	03/14/24 15:39	1

Lab Sample ID: LCS 500-757078/2-A

Matrix: Water

Analysis Batch: 757459

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 757078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.575		mg/L		115	80 - 120
Barium	0.500	0.506		mg/L		101	80 - 120
Cobalt	0.500	0.534		mg/L		107	80 - 120
Lead	0.100	0.0962		mg/L		96	80 - 120
Magnesium	10.0	9.34		mg/L		93	80 - 120
Molybdenum	1.00	0.946		mg/L		95	80 - 120
Potassium	10.0	9.70		mg/L		97	80 - 120
Thallium	0.100	0.0959		mg/L		96	80 - 120

Lab Sample ID: LCS 500-757078/2-A

Matrix: Water

Analysis Batch: 757847

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 757078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.104		mg/L		104	80 - 120
Cadmium	0.0500	0.0463		mg/L		93	80 - 120
Chromium	0.200	0.195		mg/L		97	80 - 120

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

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

Lab Sample ID: LCS 500-757078/2-A
Matrix: Water
Analysis Batch: 758475

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 757078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0442		mg/L		88	80 - 120
Boron	1.00	0.881		mg/L		88	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Selenium	0.100	0.0924		mg/L		92	80 - 120
Sodium	10.0	9.32		mg/L		93	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-756906/12-A
Matrix: Water
Analysis Batch: 757131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 756906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/05/24 10:40	03/06/24 07:12	1

Lab Sample ID: LCS 500-756906/13-A
Matrix: Water
Analysis Batch: 757131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 756906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00178		mg/L		89	80 - 120

Lab Sample ID: MB 500-757117/12-A
Matrix: Water
Analysis Batch: 757337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 757117

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/06/24 10:55	03/07/24 08:03	1

Lab Sample ID: LCS 500-757117/13-A
Matrix: Water
Analysis Batch: 757337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 757117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00188		mg/L		94	80 - 120

Lab Sample ID: MB 500-757118/12-A
Matrix: Water
Analysis Batch: 757337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 757118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		03/06/24 10:55	03/07/24 07:04	1

Lab Sample ID: LCS 500-757118/13-A
Matrix: Water
Analysis Batch: 757337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 757118

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

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
8th QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-5
SDG: VER_845_912

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-756576/3

Matrix: Water

Analysis Batch: 756576

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			03/02/24 13:32	1
Sulfate	<1.0		1.0	0.21	mg/L			03/02/24 13:32	1

Lab Sample ID: LCS 500-756576/4

Matrix: Water

Analysis Batch: 756576

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	22.0		mg/L		110	90 - 110
Sulfate	20.0	21.0		mg/L		105	90 - 110

Lab Sample ID: MB 500-756942/3

Matrix: Water

Analysis Batch: 756942

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			03/06/24 07:24	1
Sulfate	<1.0		1.0	0.21	mg/L			03/06/24 07:24	1

Lab Sample ID: LCS 500-756942/4

Matrix: Water

Analysis Batch: 756942

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	22.0		mg/L		110	90 - 110
Sulfate	20.0	21.1		mg/L		105	90 - 110

Lab Sample ID: MB 500-757150/3

Matrix: Water

Analysis Batch: 757150

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			03/07/24 00:50	1
Sulfate	0.328	J	1.0	0.21	mg/L			03/07/24 00:50	1

Lab Sample ID: LCS 500-757150/4

Matrix: Water

Analysis Batch: 757150

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	22.2	*+	mg/L		111	90 - 110
Sulfate	20.0	22.0		mg/L		110	90 - 110

Lab Sample ID: MB 500-757486/3

Matrix: Water

Analysis Batch: 757486

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.0		1.0	0.21	mg/L			03/09/24 19:48	1

Eurofins Chicago

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-5
SDG: VER_845_912

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-757486/4
Matrix: Water
Analysis Batch: 757486

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.8		mg/L		109	90 - 110

Lab Sample ID: MB 500-757868/9
Matrix: Water
Analysis Batch: 757868

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.145	J	1.0	0.12	mg/L			03/12/24 12:02	1
Sulfate	<1.0		1.0	0.21	mg/L			03/12/24 12:02	1

Lab Sample ID: LCS 500-757868/10
Matrix: Water
Analysis Batch: 757868

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	19.9		mg/L		100	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-757067/11
Matrix: Water
Analysis Batch: 757067

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	5.01		5.0	3.7	mg/L			03/05/24 15:27	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			03/05/24 15:27	1

Lab Sample ID: MB 500-757067/32
Matrix: Water
Analysis Batch: 757067

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			03/05/24 18:20	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			03/05/24 18:20	1

Lab Sample ID: MB 500-757067/57
Matrix: Water
Analysis Batch: 757067

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	5.84		5.0	3.7	mg/L			03/05/24 21:55	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			03/05/24 21:55	1

Lab Sample ID: LCS 500-757067/33
Matrix: Water
Analysis Batch: 757067

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	95 - 121

Eurofins Chicago

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-5
SDG: VER_845_912

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 500-757067/58

Matrix: Water

Analysis Batch: 757067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	113		mg/L		113	95 - 121

Lab Sample ID: LCS 500-757067/7

Matrix: Water

Analysis Batch: 757067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	116		mg/L		116	95 - 121

Lab Sample ID: 500-246480-25 DU

Matrix: Water

Analysis Batch: 757067

Client Sample ID: VER_016A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	380		369		mg/L		3	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: MB 500-757258/12

Matrix: Water

Analysis Batch: 757258

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			03/06/24 17:07	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			03/06/24 17:07	1

Lab Sample ID: LCS 500-757258/8

Matrix: Water

Analysis Batch: 757258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	113		mg/L		113	95 - 121

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

Lab Sample ID: MB 500-755368/1

Matrix: Water

Analysis Batch: 755368

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			02/22/24 23:41	1

Lab Sample ID: LCS 500-755368/2

Matrix: Water

Analysis Batch: 755368

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	242		mg/L		97	80 - 120

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-5
SDG: VER_845_912

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

Lab Sample ID: MB 500-755755/1
Matrix: Water
Analysis Batch: 755755

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			02/26/24 22:25	1

Lab Sample ID: LCS 500-755755/2
Matrix: Water
Analysis Batch: 755755

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	242		mg/L		97	80 - 120

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-757490/3
Matrix: Water
Analysis Batch: 757490

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			03/07/24 15:02	1

Lab Sample ID: MB 500-757490/31
Matrix: Water
Analysis Batch: 757490

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			03/07/24 17:22	1

Lab Sample ID: LCS 500-757490/32
Matrix: Water
Analysis Batch: 757490

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	9.98		mg/L		100	90 - 119

Lab Sample ID: LCS 500-757490/4
Matrix: Water
Analysis Batch: 757490

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	9.87		mg/L		99	90 - 119

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_010

Lab Sample ID: 500-246480-5

Date Collected: 02/20/24 17:55

Matrix: Water

Date Received: 02/21/24 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			756864	BDE	EET CHI	03/05/24 08:58 - 03/05/24 14:58 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	757263	SJ	EET CHI	03/06/24 21:12
Total Recoverable	Prep	3005A			756958	MC	EET CHI	03/05/24 17:38 - 03/05/24 22:38 ¹
Total Recoverable	Analysis	6020B		1	757459	RN	EET CHI	03/08/24 00:44
Total Recoverable	Prep	3005A			756958	MC	EET CHI	03/05/24 17:38 - 03/05/24 22:38 ¹
Total Recoverable	Analysis	6020B		1	757847	RN	EET CHI	03/11/24 17:54
Total Recoverable	Prep	3005A			756958	MC	EET CHI	03/05/24 17:38 - 03/05/24 22:38 ¹
Total Recoverable	Analysis	6020B		1	758475	RN	EET CHI	03/14/24 17:43
Total/NA	Prep	7470A			756906	MJG	EET CHI	03/05/24 10:40 - 03/05/24 12:40 ¹
Total/NA	Analysis	7470A		1	757131	MJG	EET CHI	03/06/24 07:25
Total/NA	Analysis	300.0		1	756576	W1T	EET CHI	03/02/24 15:34
Total/NA	Analysis	300.0		10	756576	W1T	EET CHI	03/02/24 15:49
Total/NA	Analysis	SM 2320B		1	757067	LEG	EET CHI	03/05/24 16:37
Total/NA	Analysis	SM 2540C		1	755368	CLB	EET CHI	02/23/24 00:19
Total/NA	Analysis	SM 4500 F C		1	757490	LEG	EET CHI	03/07/24 15:33
Total/NA	Analysis	Field Sampling		1	755860	DN	EET CHI	02/20/24 17:55

Client Sample ID: VER_EB1

Lab Sample ID: 500-246480-21

Date Collected: 02/20/24 17:50

Matrix: Water

Date Received: 02/21/24 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			756867	BDE	EET CHI	03/05/24 09:00 - 03/05/24 15:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	757263	SJ	EET CHI	03/06/24 23:53
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757459	RN	EET CHI	03/08/24 02:39
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757847	RN	EET CHI	03/11/24 20:36
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	758475	RN	EET CHI	03/14/24 16:22
Total/NA	Prep	7470A			757117	MJG	EET CHI	03/06/24 10:55 - 03/06/24 12:55 ¹
Total/NA	Analysis	7470A		1	757337	MJG	EET CHI	03/07/24 08:37
Total/NA	Analysis	300.0		1	756942	W1T	EET CHI	03/06/24 11:27
Total/NA	Analysis	SM 2320B		1	757067	LEG	EET CHI	03/05/24 19:47
Total/NA	Analysis	SM 2540C		1	755755	CLB	EET CHI	02/26/24 22:53
Total/NA	Analysis	SM 4500 F C		1	757490	LEG	EET CHI	03/07/24 17:18

Client Sample ID: VER_016A

Lab Sample ID: 500-246480-25

Date Collected: 02/21/24 13:15

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			756867	BDE	EET CHI	03/05/24 09:00 - 03/05/24 15:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	757263	SJ	EET CHI	03/07/24 00:20

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Client: Vistra Energy Corp
 Project/Site: VER-24Q1

Job ID: 500-246480-5
 SDG: VER_845_912

Client Sample ID: VER_016A

Lab Sample ID: 500-246480-25

Date Collected: 02/21/24 13:15

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757459	RN	EET CHI	03/08/24 02:53
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757847	RN	EET CHI	03/11/24 21:06
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	758475	RN	EET CHI	03/14/24 16:46
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	758529	RN	EET CHI	03/15/24 14:12
Total/NA	Prep	7470A			757117	MJG	EET CHI	03/06/24 10:55 - 03/06/24 12:55 ¹
Total/NA	Analysis	7470A		1	757337	MJG	EET CHI	03/07/24 08:50
Total/NA	Analysis	300.0		1	756942	W1T	EET CHI	03/06/24 12:27
Total/NA	Analysis	300.0		10	757868	MB	EET CHI	03/12/24 12:32
Total/NA	Analysis	SM 2320B		1	757067	LEG	EET CHI	03/05/24 21:25
Total/NA	Analysis	SM 2540C		1	755755	CLB	EET CHI	02/26/24 23:03
Total/NA	Analysis	SM 4500 F C		1	757490	LEG	EET CHI	03/07/24 17:46
Total/NA	Analysis	Field Sampling		1	755860	DN	EET CHI	02/21/24 13:15

Client Sample ID: VER_022

Lab Sample ID: 500-246480-26

Date Collected: 02/21/24 11:10

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			756867	BDE	EET CHI	03/05/24 09:00 - 03/05/24 15:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	757263	SJ	EET CHI	03/07/24 00:24
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757459	RN	EET CHI	03/08/24 02:56
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757847	RN	EET CHI	03/11/24 21:10
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	758475	RN	EET CHI	03/14/24 16:50
Total/NA	Prep	7470A			757117	MJG	EET CHI	03/06/24 10:55 - 03/06/24 12:55 ¹
Total/NA	Analysis	7470A		1	757337	MJG	EET CHI	03/07/24 08:52
Total/NA	Analysis	300.0		1	756942	W1T	EET CHI	03/06/24 12:42
Total/NA	Analysis	SM 2320B		1	757067	LEG	EET CHI	03/05/24 21:45
Total/NA	Analysis	SM 2540C		1	755755	CLB	EET CHI	02/26/24 23:06
Total/NA	Analysis	SM 4500 F C		1	757490	LEG	EET CHI	03/07/24 18:03
Total/NA	Analysis	Field Sampling		1	755860	DN	EET CHI	02/21/24 11:10

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_035&D

Lab Sample ID: 500-246480-27

Date Collected: 02/21/24 13:05

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			756867	BDE	EET CHI	03/05/24 09:00 - 03/05/24 15:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	757263	SJ	EET CHI	03/07/24 00:28
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757459	RN	EET CHI	03/08/24 03:10
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757847	RN	EET CHI	03/11/24 21:13
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		10	758475	RN	EET CHI	03/14/24 16:53
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	758529	RN	EET CHI	03/15/24 14:16
Total/NA	Prep	7470A			757117	MJG	EET CHI	03/06/24 10:55 - 03/06/24 12:55 ¹
Total/NA	Analysis	7470A		1	757337	MJG	EET CHI	03/07/24 08:54
Total/NA	Analysis	300.0		100	757486	W1T	EET CHI	03/09/24 23:51
Total/NA	Analysis	300.0		100	757868	MB	EET CHI	03/12/24 12:47
Total/NA	Analysis	SM 2320B		1	757067	LEG	EET CHI	03/05/24 22:11
Total/NA	Analysis	SM 2540C		1	755755	CLB	EET CHI	02/26/24 23:08
Total/NA	Analysis	SM 4500 F C		1	757490	LEG	EET CHI	03/07/24 18:23
Total/NA	Analysis	Field Sampling		1	755860	DN	EET CHI	02/21/24 13:05

Client Sample ID: VER_070#S

Lab Sample ID: 500-246480-29

Date Collected: 02/21/24 09:20

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			756867	BDE	EET CHI	03/05/24 09:00 - 03/05/24 15:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	757263	SJ	EET CHI	03/07/24 00:37
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757459	RN	EET CHI	03/08/24 03:17
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757847	RN	EET CHI	03/11/24 21:34
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	758475	RN	EET CHI	03/14/24 17:00
Total/NA	Prep	7470A			757117	MJG	EET CHI	03/06/24 10:55 - 03/06/24 12:55 ¹
Total/NA	Analysis	7470A		1	757337	MJG	EET CHI	03/07/24 08:58
Total/NA	Analysis	300.0		1	756942	W1T	EET CHI	03/06/24 13:58
Total/NA	Analysis	300.0		50	757486	W1T	EET CHI	03/10/24 00:21
Total/NA	Analysis	SM 2320B		1	757067	LEG	EET CHI	03/05/24 22:32
Total/NA	Analysis	SM 2540C		1	755755	CLB	EET CHI	02/26/24 23:14
Total/NA	Analysis	SM 4500 F C		1	757490	LEG	EET CHI	03/07/24 18:32
Total/NA	Analysis	Field Sampling		1	755860	DN	EET CHI	02/21/24 09:20

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_070&D

Lab Sample ID: 500-246480-30

Date Collected: 02/21/24 08:45

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			756867	BDE	EET CHI	03/05/24 09:00 - 03/05/24 15:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	757263	SJ	EET CHI	03/07/24 00:41
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757459	RN	EET CHI	03/08/24 03:20
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757847	RN	EET CHI	03/11/24 21:37
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	758475	RN	EET CHI	03/14/24 17:03
Total/NA	Prep	7470A			757117	MJG	EET CHI	03/06/24 10:55 - 03/06/24 12:55 ¹
Total/NA	Analysis	7470A		1	757337	MJG	EET CHI	03/07/24 09:00
Total/NA	Analysis	300.0		1	756942	W1T	EET CHI	03/06/24 14:13
Total/NA	Analysis	300.0		100	757868	MB	EET CHI	03/12/24 13:17
Total/NA	Analysis	SM 2320B		1	757067	LEG	EET CHI	03/05/24 22:41
Total/NA	Analysis	SM 2540C		1	755755	CLB	EET CHI	02/26/24 23:16
Total/NA	Analysis	SM 4500 F C		1	757490	LEG	EET CHI	03/07/24 18:37
Total/NA	Analysis	Field Sampling		1	755860	DN	EET CHI	02/21/24 08:45

Client Sample ID: VER_NED1

Lab Sample ID: 500-246480-31

Date Collected: 02/21/24 15:00

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			756867	BDE	EET CHI	03/05/24 09:00 - 03/05/24 15:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	757263	SJ	EET CHI	03/07/24 00:46
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757459	RN	EET CHI	03/08/24 03:24
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757847	RN	EET CHI	03/11/24 21:41
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		10	758475	RN	EET CHI	03/14/24 17:07
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	758529	RN	EET CHI	03/15/24 14:23
Total/NA	Prep	7470A			757117	MJG	EET CHI	03/06/24 10:55 - 03/06/24 12:55 ¹
Total/NA	Analysis	7470A		1	757337	MJG	EET CHI	03/07/24 09:02
Total/NA	Analysis	300.0		1	756942	W1T	EET CHI	03/06/24 14:28
Total/NA	Analysis	300.0		100	757486	W1T	EET CHI	03/10/24 00:51
Total/NA	Analysis	SM 2320B		1	757067	LEG	EET CHI	03/05/24 22:51
Total/NA	Analysis	SM 2540C		1	755755	CLB	EET CHI	02/26/24 23:19
Total/NA	Analysis	SM 4500 F C		1	757490	LEG	EET CHI	03/07/24 18:41
Total/NA	Analysis	Field Sampling		1	755860	DN	EET CHI	02/21/24 15:00

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-5
SDG: VER_845_912

Client Sample ID: VER_FB

Date Collected: 02/21/24 15:20

Date Received: 02/22/24 11:18

Lab Sample ID: 500-246480-32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			756867	BDE	EET CHI	03/05/24 09:00 - 03/05/24 15:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	757263	SJ	EET CHI	03/07/24 00:50
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757459	RN	EET CHI	03/08/24 03:27
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757847	RN	EET CHI	03/11/24 21:48
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	758475	RN	EET CHI	03/14/24 17:10
Total/NA	Prep	7470A			757118	MJG	EET CHI	03/06/24 10:55 - 03/06/24 12:55 ¹
Total/NA	Analysis	7470A		1	757337	MJG	EET CHI	03/07/24 07:08
Total/NA	Analysis	300.0		1	756942	W1T	EET CHI	03/06/24 14:44
Total/NA	Analysis	SM 2320B		1	757258	LEG	EET CHI	03/06/24 17:26
Total/NA	Analysis	SM 2540C		1	755755	CLB	EET CHI	02/26/24 23:21
Total/NA	Analysis	SM 4500 F C		1	757490	LEG	EET CHI	03/07/24 18:46

Client Sample ID: VER_EB2

Date Collected: 02/21/24 15:50

Date Received: 02/22/24 11:18

Lab Sample ID: 500-246480-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			756867	BDE	EET CHI	03/05/24 09:00 - 03/05/24 15:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	757263	SJ	EET CHI	03/07/24 00:54
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757459	RN	EET CHI	03/08/24 03:31
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	757847	RN	EET CHI	03/11/24 21:51
Total Recoverable	Prep	3005A			757078	BDE	EET CHI	03/06/24 09:08 - 03/06/24 15:08 ¹
Total Recoverable	Analysis	6020B		1	758475	RN	EET CHI	03/14/24 17:14
Total/NA	Prep	7470A			757118	MJG	EET CHI	03/06/24 10:55 - 03/06/24 12:55 ¹
Total/NA	Analysis	7470A		1	757337	MJG	EET CHI	03/07/24 07:10
Total/NA	Analysis	300.0		1	757150	NMB	EET CHI	03/07/24 08:10
Total/NA	Analysis	SM 2320B		1	757258	LEG	EET CHI	03/06/24 17:33
Total/NA	Analysis	SM 2540C		1	755755	CLB	EET CHI	02/26/24 23:24
Total/NA	Analysis	SM 4500 F C		1	757490	LEG	EET CHI	03/07/24 19:02

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

ATTACHMENT B.
845-CHARTEREDLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912

Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-5
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	04-29-24
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 CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		500-246480 COC	
Company: Vistra Corp-Vermilion		Report To: Brian Voelker		Attention: Dave McCoy		Page 1 of 3	
Address: 10188 E 2150 North Rd		Copy To: Sam Davies samantha.davies@vistracorp.com		Company Name: A3 Environmental		REGULATORY AGENCY	
City: Danville, IL 61834		Contact: Dianna Tickner - Dianna.Tickner@vistracorp.com		Address: 3030 Warrenville Rd, Lisle, IL 60532		NPDES GROUND WATER DRINKING WATER	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No		Quote Reference		UST RCRA OTHER	
Phone: (217) 753-8911 Fax:		Project Name: VER-24Q1		Project Manager: Donna Campbell & Dirk Nelson		Site Location	
Requested Due Date/TAT: 10 day		Project Number: 50022750		Profile #		STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
					DATE	TIME			Unpreserved	H 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_A	VER_000_B	VER_000_RAD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q1 Rev 1	Dave McCoy / Taylor Olson - Allis, Danville	2-21-24	09:30	2/21/24	09:30		
	2/21/24	11:20		2/21/24	11:20		
SAMPLER NAME AND SIGNATURE							Temp in °C
PRINT Name of SAMPLER. Dave McCoy / Taylor Olson - Allis, Danville							Received on Ice (Y/N)
SIGNATURE of SAMPLER. [Signature]							Custody Sealed Cooler (Y/N)
DATE Signed (MM/DD/YY) 2/20/24							Samples Intact (Y/N)

5.8 → 5.3, 4.6 → 4.1, 3.1 → 2.6, 4.4 → 3.9, 5.6 → 5.1, 4.1 → 3.6

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Page 2 of 3

[illegible]03/26/24

ent
VER-845-912

Page 3 of 3

Page 3 of 3Page 3 of 3

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

Page: 1 of 3

2/21/24

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

Page: 2 of 3

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

[illegible]

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

Page: 3 of 3

[illegible]

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Davey					
SIGNATURE of SAMPLER: 	DATE Signed (MM/DD/YY): 2 21.24				

$$2'12124$$

DM

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-246480-5

SDG Number: VER_845_912

Login Number: 246480

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	5.3,4.1,2.6,3.9,5.1,3.6,4.1,2.7,1.5,2.5
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	

Site: Vermillion Project Number: _____ Field Personnel: A. Beckett / T. Cloven / D. McCoy		Client: Vista Start Date: 2 / 2024 Finish Date: 2.20.24 Time: 11:48 Time: _____		02-1220
WELL INFORMATION Well ID: 02 Casing ID: _____ inches		PROJECT INFORMATION Well Development Well Volume Approach Sampling Low-Flow / Low Stress Sampling Other (Specify): Low Flow		1423

[illegible]

Page 1

020 1220

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Vermillion		Client: Vistra		Start Date: 2/1/2024		Time: 16:05		1423			
Project Number:		Task #: 312		Finish Date: 2-28-24		Time:					
Field Personnel: A. Beckett / T. Closten / D. McCoy											
WELL INFORMATION				EVENT TYPE							
Well ID: 312		Casing ID: inches		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)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	16:05		7.85								
	16:07	0.25	8.31	0.46	12.5	7.36	1347	2.04	145.46	-53.2	Clear
	16:12	1.0	8.08	0.23	12.4	7.41	1365	1.44	104.14	-110.4	Clear
	16:17	1.75	8.52	0.67	12.5	7.40	1376	0.47	117.20	-137.6	Clear
	16:23	2.25	8.39	0.54	12.5	7.39	1369	0.15	111.65	-142.4	Clear
	16:27	3.0	8.62	0.77	12.5	7.39	1372	0.17	104.82	-147.3	Clear
	16:32	5.0	8.49	0.65	12.5	7.39	1369	0.16	100.97	-149.8	Clear
	16:37	5.5	8.52	0.67	12.5	7.39	1368	0.15	108.61	-150.1	Clear
Bladder Pump / Clear / No Color / No odor				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			

Low-Flow Sampling Form

Page

32 0 > 16:40
32 FD

21

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Site: Vermillion		Client: Vistra	
Project Number:		Task #:	
Field Personnel: A. Beckett, J. Clossen, D. McCoy		Start Date: 2/21/2024	Time: 8:15
		Finish Date: 2/21/24	Time: 8:45
WELL INFORMATION		EVENT TYPE	
Well ID: 04		Well Development	Low-Flow / Low Stress Sampling Other
Casing ID:	inches	Well Volume Approach Sampling	(Specify): Low Flow

[illegible]

Page

VER-004

PROJECT INFORMATION											
Site: Vermilion	Client: Vistra										
Project Number:	Start Date: 2/20/2024	Time: 0805									
Field Personnel: A. Beckett / R. Closser / D. McCoy	Finish Date: 2/21/24	Time: 0815									
WELL INFORMATION			EVENT TYPE								
Well ID: 05			Low-Flow / Low Stress Sampling Other								
Casing ID:			(Specify): Low Flow								
inches											
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Initial	9:05		7.13								
Purge	9:10		7.61		10.8	7.80	555	0.33	34.1	0.5	clear
Purge	9:15		7.62		10.8	7.60	553	0.13	10.05	-2.4	clear
Purge	9:20		7.59		10.9	7.59	553	0.09	6.05	-4.0	clear
Purge	9:25		7.62		11.0	7.59	553	0.06	4.36	-6.2	clear
Purge	9:30		7.62		11.0	7.59	553	0.04	3.20	-6.8	clear
Purge	9:35	4.5 gal	7.61		11.0	7.59	553	0.04	3.18	-6.9	clear
NOTES (continued)										ABBREVIATIONS	
Bladder Pump / Clear / No Color / No odor										Cond. - Actual Conductivity PI BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units	
										ORP - Oxidation-Reduction Potential SEC - Specific Electrical	

Page 7

Low-Flow Sampling Form

VER-005

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Page 1

Low-Flow Sampling Form

00720 11:20
60720s

Site: Vermillion Project Number: _____ Field Personnel: A. Beckett / T. Closten / <u>D. McCoy</u>		Client: Vistra Start Date: 2 / / 2024 Finish Date: 2-20-24 Time: 16:52	
WELL INFORMATION Well ID: _____ Casing ID: _____		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)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	16:52		13.31								
	16:57	0.25	13.52	.21	10.3	8.91	1305	1.96	7.70	-32.3	CLEAR
	17:02	0.15	13.86	.15	10.4	6.93	1248	0.34	12.35	-35.7	CLEAR
	17:07	0.75	13.88	.52	10.6	7.05	1364	-0.11	6.24	-54.2	CLEAR
	17:12	1.0	13.94	.63	10.6	7.06	1363	-0.10	5.25	-58.3	CLEAR
	17:17	1.25	13.87	.56	10.7	7.07	1361	-0.09	5.49	-58.9	CLEAR
	17:22	1.5	13.91	.60	10.5	7.08	1358	-0.07	5.35	-59.1	CLEAR
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / Clear / No Color / No odor								Cond. - Actual Conductivity PT BIOC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units			

Page 1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912

Site: Vermillion		Client: Vistra		Project Information	
Project Number:		Task #:	Start Date: 2/20/2024	Time: 1645	
Field Personnel: A. Beckett / T. Clossen / D. McCoy		Finish Date: 2/20/24	Time: 1755	1423	
WELL INFORMATION		EVENT TYPE			
Well ID: VER-010	Well Development	Low-Flow / Low Stress Sampling Other			
Casing ID:	Well Volume Approach Sampling	(Specify): Low Flow			

WATER QUALITY INDICATOR PARAMETERS (continued)										
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
P12	1647		49.31	12.1	4.91	937	8.38	829	13.2	NOT DATA
PUMP	1650		49.90	12.8	4.82	1101	3.14	739	28.4	"
	1655		50.40	12.7	4.82	1097	3.15	751	28.9	"
	1700		50.91	12.7	4.82	1099	3.11	845	28.8	"
	1705	1	51.21							"
Bladder Pump / Clear /No Color / No odor										ABBREVIATIONS ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
NOTES (continued)										

Sampled @ 1710

111

☐ ☐

7 ~~bottles~~ bottles
Nitric acid
→ Went dry after filling
2 ~~bottles~~ bottles & the
250 mL FF bottle

Page

PROJECT INFORMATION											
Site:	Vermillion	Client:	Vistra	Task #:							
Project Number:		Start Date:	2 / /2024	Time:	12:35						
Field Personnel:	A. Beckett / T. Closen / D. McCoy	Finish Date:	2-21-24	Time:							
WELL INFORMATION		EVENT TYPE									
Well ID:	16A	Well Development	Low-Flow / Low Stress Sampling Other								
Casing ID:		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)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	12:35		12.13		3%	7.1	1301	1.42	53.42	1.34	Clear
	12:38	0.25	14.68	9.66	11.8	7.60	1053	1.41	29.80	1.41	Clear
	12:43	1.25	19.79	10.98	11.7	7.60	1037	1.45	34.21	2.05	Clear
	12:48	2.50	23.71	11.92	11.8	7.62	1041	2.58	111.82	-81.8	Clear
	12:53	2.75	24.05	12.41	11.8	7.63	1039	2.64	114.68	-86.1	Clear
	12:58	3.0	24.94	12.68	12.1	7.65	1041	2.68	121.11	-89.9	Clear
	13:03	3.5	24.81	13.17	12.1	7.67	1037	2.71	128.73	-96.5	Clear
	13:08	4.0	25.30	13.33	12.1	7.68	1032	2.86	135.54	-101.8	Clear
	13:13	4.5	25.46								
			NOTES (continued)			ABBREVIATIONS					
						Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BIOC - Feet Below Top of Casing na - Conductance SU - Standard Units					
Bladder Pump / Clear /No Color / No odor											

Page

Low-Flow Sampling Form

PROJECT INFORMATION			
Site:	Vermillion	Client:	Vistra
Project Number:		Task #:	
Field Personnel:	A. Beckett / T. Closen / D. McCoy	Start Date:	2/23/2024
		Finish Date:	2/20/24
		Time:	0830
		Time:	0945
WELL INFORMATION		EVENT TYPE	
Well ID:	VER-020	Well Development	Low-Flow / Low Stress Sampling Other
Casing ID:		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)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PVE	0845		13.67		± 1.0	± 0.1		3.4	10% ± 0.1	± 10	
BVRG-3	0852		13.85		10.3	7.16	520	2.36	119.55	-8.9	GROWN
	0857	1	13.76		10.4	7.14	530	1.80	38.97	-26.8	CLEAR
	0902		13.74		10.3	7.13	534	1.01	25.23	-30.1	" "
	0907	2	13.74		10.4	7.13	543	1.23	12.73	-36.5	" "
	0912		13.76		10.4	7.12	547	1.14	7.78	-38.6	" "
	0917	3	13.76		10.4	7.12	550	1.13	5.37	-39.5	" "
	0922	>4	13.76		10.5	7.12	554	1.12	3.99	-40.0	" "
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / Clear / No Color / No odor								Cond - Actual Conductivity FT BTDC - Feet Below Top of Casing Int. - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units			

Sampled @ 0925

nitric acid

Site: Vermilion		Client: Vistra		Project Information	
Project Number:		Task #: _____		Start Date: 2/29/2024 Time: 1551	
Field Personnel: A. Beckett / T. Closen / D. McCov		Finish Date: 2/20/24		Time: 1638	
WELL INFORMATION		EVENT TYPE			
Well ID: VER-021		Well Development		Low-Flow / Low Stress Sampling Other	
Casing ID: _____ inches		Well Volume Approach Sampling		(Specify): Low Flow	

[illegible]

Sampled @ 1030

4 bottles
Nitric acid

PROJECT INFORMATION			
Site:	Vermillion	Client:	Vistra
Project Number:		Start Date:	2/24/2024
	Task #:	Time:	
Field Personnel:	A. Beckett, T. Closen, D. McCoy	Finish Date:	Time:
WELL INFORMATION		EVENT TYPE	
Well ID:	22	Well Development	Low-Flow / Low Stress Sampling Other
Casing ID:		Well Volume Approach Sampling	(Specify): Low Flow
	inches		

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PUMP	10:30		55.29								
PUMP	10:35		58.30		12.9	7.39	615	.32	11.4	-45.6	clear
PUMP	10:40		58.45		12.9	7.40	616	.20	7.7	-53.6	clear
PUMP	10:45		59.35		12.9	7.40	617	.16	14.2	-60.2	clear
PUMP	10:50		59.42		13.1	7.40	619	.13	13.6	-66.9	clear
PUMP	10:55		59.39		13.2	7.40	621	.12	8.6	-71.2	clear
PUMP	11:00		59.46		13.2	7.41	622	.11	6.5	-73.4	clear
PUMP	11:05	4.5 gal	59.42		13.2	7.40	623	.12	6.4	-73.5	clear
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / Clear / No Color / No odor								Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units			

Page 1

VER 022

PROJECT INFORMATION			
Site: Vermillion	Client: Vistra		
Project Number:	Task #: _____	Start Date: 2 / /2024	Time: _____
Field Personnel: A. Beckett / T. Closen / D. McCoy	Finish Date: 2/20/24	Time: 5:00 PM	6035
WELL INFORMATION		EVENT TYPE	
Well ID: _____	Well Development	Low-Flow / Low Stress Sampling Other	
Casing ID: _____	Well Volume Approach Sampling	(Specify): Low Flow	

[illegible]

Page

340 0335

PROJECT INFORMATION											
Site: Vermillion	Client: Vistra	Task #: 2 /	Start Date: 2 / /2024	Time:							
Project Number:											
Field Personnel: A. Beckett, T. Clasen, D. McCoy	Finish Date:		Time:								
WELL INFORMATION					EVENT TYPE						
Well ID: 3540					Low-Flow / Low Stress Sampling Other						
Casing ID: inches					(Specify): Low Flow						
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
12:15	10.15										
12:20	10.8				13.0	7.40	3992	2.87	8.86	-12.9	Clear
12:25	12.85				12.6	7.42	4011	3.9	35.2	-56.5	Clear
12:30	14.57				12.7	7.42	4003	21	48.6	-55.7	Clear
12:35	16.12				12.7	7.42	4005	14	78.9	-49.5	Clear
12:40	17.32				12.6	7.41	4011	12	24.5	-42.5	Clear
12:45	18.42				12.5	7.42	3999	12	26.5	-34.9	Clear
12:50	19.56				12.5	7.42	4001	13	26.2	-33.5	Clear
12:55	21.50				12.3	7.42	4023	13	30.9	-17.1	Clear
1:00	23.04	2-3 gal			12.5	7.42	4000	14	31.0	-16.2	Clear
NOTES (continued)										ABBREVIATIONS	
Bladder Pump / Clear / No Color / No odor											
N ₂ Bladder, Sampled w/ geo pump											
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units											

Page

Low-Flow Sampling Form

VER-035 & D

PROJECT INFORMATION											
Site:	Vermillion	Client:	Vistra	Start Date:	2 / 2024	Time:	14:45				
Project Number:		Task #:		Finish Date:	2-20-24	Time:	15:15				
Field Personnel:	A. Beckett / T. Clasen / D. McCowen										
WELL INFORMATION				EVENT TYPE							
Well ID:	36	Well Development	Low-Flow / Low Stress Sampling Other	(Specify) Low Flow							
Casing ID:		Well Volume Approach Sampling									
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	14:45		14.21								
	14:47		14.31	0.10	12.2	7.18	1630	0.27	244.3	-106.2	Turbid
	14:52	0.5	14.28	0.07	12.1	7.23	1712	0.11	58.20	-102.8	Turbid
	14:57	1.0	14.41	0.20	12.1	7.27	1737	0.18	42.43	-112.1	Clear
	15:02	1.75	14.40	.19	12.1	7.30	1757	0.20	14.04	-115.4	Clear
	15:07	2.25	14.31	0.10	12.1	7.32	1756	0.21	13.52	-117.4	Clear
	15:12	3.0	14.31	0.10	12.1	7.33	1761	0.22	12.99	-119.0	Clear
NOTES (continued)				ABBREVIATIONS							
Bladder Pump / Clear / No Color / No odor				Gens - Actual Conductivity FTBOD - Feet Below Top of Casing (ft.) ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units							

Page:

Low-Flow Sampling Form

03/26/24

5151

1111

PROJECT INFORMATION				EVENT TYPE	
Site: Vermillion	Client: Vistra	Task #: 14.05	Start Date: 2 / 2024	Time: 14:05	Low-Flow / Low Stress Sampling Other
Project Number:	Finish Date: 2-20-24	Time: 14:05			(Specify): Low Flow
Field Personnel: A. Beckett / T. Closen / D. McCoy					
WELL INFORMATION			WELL TYPE		
Well ID: 37	Well Development	Well Volume Approach Sampling			
Casing ID:					

[illegible]

Low-Flow Sampling Form

Page 11

370-1435

9

PROJECT INFORMATION											
Site: Vermillion	Client: Vistra	Task #:	Start Date: 2/20/2024	Time: 0955							
Project Number:	Field Personnel: A. Beckett / T. Closen / D. McCoy	Finish Date: 2/20/24	Time: 1030								
WELL INFORMATION			EVENT TYPE								
Well ID: VER-038		Well Development		Low-Flow / Low Stress Sampling Other							
Casing ID:		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)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
pre	1000		3.51		11.1	7.10	758	0.310	42.61	-130.4	clear
purge	1002		3.55		11.4	7.10	759	0.23	40.63	-138.9	clear
purge	1007		3.52		11.6	7.10	760	0.18	44.35	-141.7	clear
purge	1012		3.52		11.6	7.10	753	0.03	43.46	-150.9	clear
purge	1017		3.52		11.6	7.10	752	0.02	41.23	-152.3	"
purge	1023		3.52		11.0	7.10	753	0.03	44.30	-151.2	"
purge	1027	4	3.40								
NOTES (continued)			ABBREVIATIONS								
Bladder Pump / Clear / No Color / No odor			Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units								

Sampled @ 1030

3

Nitric acid

bottles

PROJECT INFORMATION			
Site: Vermillion	Client: Vistra		
Project Number:	Task #: 2 / 2024	Start Date: 10:45	Time: well-40
Field Personnel: A. Beckett / T. Closen / D. McCov	Finish Date: 2/20/24	Time: 11:15	1423
WELL INFORMATION		EVENT TYPE	
Well ID: 40	Well Development	Low-Flow / Low Stress Sampling Other	
Casing ID:	Well Volume Approach Sampling	(Specify): Low Flow	

Low-Flow Sampling Form

40 — 11:20
40 FD — 11:20

Page

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Vermillion		Client: Vistra		Start Date: 2 / 2024		Time: 11:40		1423			
Project Number:		Task #:		Finish Date:		Time:					
Field Personnel: A. Beckett / T. Closen / D. McCoy											
WELL INFORMATION				EVENT TYPE							
Well ID: 0041		Well Development		Low-Flow / Low Stress Sampling Other							
Casing ID: 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)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	11:40	0.25	5.87	0.15	12.5	7.26	1039	0.62	63.21	-126.5	Clear
	11:45	3.0	6.22	0.35	12.5	7.25	1038	0.18	23.32	-148.6	Clear
	11:50	4.5	6.02	0.15	12.6	7.25	1038	0.21	25.10	-152.3	Clear
	11:55	7.5	6.02	0.15	12.6	7.25	1038	0.24	26.92	-154.7	Clear
	12:00	9.0	6.02	0.15	12.6	7.24	1038	0.20	25.74	-156.5	Clear
	12:05	11.0	6.02	0.15	12.6	7.24	1039	0.24	27.17	-156.5	
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	

Low-Flow Sampling Form

Page

0041 @ 12:05
6 bottles

□ □

□ □

Site: Vermillion		Client: Vistra		Project Information	
Project Number:		Start Date: 2/20/2024		Time: 1145	
Field Personnel: A. Beckett / T. Closen / D. McCov		Finish Date: 2/20/24		Time: 1234	
WELL INFORMATION		EVENT TYPE			
Well ID: VER-042		Well Development		Low-Flow / Low Stress Sampling Other	
Casing ID:		Well Volume Approach Sampling		(Specify): Low Flow	

[illegible]

Sampled @ 1217

$$MS/MSD$$

nitric acid

PROJECT INFORMATION											
Site: Vermilion	Client: Vistra	Task #:	Start Date: 2/23/24	Time: 1055	Finish Date: 2/20/24	Time: 1140	1423				
Field Personnel: A. Beckett / T. Cloven / D. McCoy											
WELL INFORMATION			EVENT TYPE								
Well ID: UER-043			Low-Flow / Low Stress Sampling Other								
Casing ID: inches			(Specify) Low Flow								
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
pre	1100		14.38		11.3	7.05	1100	1.84	40.34	83.7	clear
	1103		18.71		11.3	7.05	1100	1.84	40.34	83.7	clear
	1108		17.75		11.4	7.06	1245	0.19	50.61	-109.3	milky
	1113		17.75		11.6	7.10	1240	0.15	57.08	-112.9	"
	1118	2.0	18.12		11.0	7.10	1252	0.15	50.92	-122.5	"
	1123		17.74		11.0	7.09	1251	0.18	53.18	-124.4	"
	1128		17.75		11.1	7.10	1253	0.16	51.99	-128.0	"
NOTES (continued)										ABBREVIATIONS	
Bladder Pump / Clear / No Color / No odor										Cond. - Actual Conductivity RT BLOC - Feet Below Top of Casing to - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance (µS) - Standard Units	

Page 1

Low-Flow Sampling Form

Sampled @ 1130

DE

12 bottles total

~~IS~~ was not registering

turbidity "++++"

had to hit low flow sampling
in around

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Vermilion		Client: Vista		Task #: 1423							
Project Number:		Start Date: 2 / /2024		Time: 0805							
Field Personnel: A Beckett / T. Closen / D. McCoy		Finish Date: 2-21-24		Time:							
WELL INFORMATION				EVENT TYPE							
Well ID: 700		Well Development		Low-Flow / Low Stress Sampling Other							
Casing ID:		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)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	0805	0.0	31.83		11.6	7.16	3326	0.50	10%	-8.9	CLAR
	0810	0.25	32.68	0.85	11.6	7.17	3310	0.47	76.58	-7.2	" "
	0815	0.5	33.59	1.46	11.6	7.17	3302	0.40	25.14	-4.4	" "
	0820	0.75	34.31	2.48	11.6	7.16	3296	0.40	24.43	-0.8	" "
	0825	1.05	37.33	5.5	11.6	7.00	2985	0.22	17.6	18.3	" "
	0830	1.45	41.64	9.81	11.6	6.98	2867	0.26	28.21	22.3	" "
	0835	2.25	45.10	13.27	11.6	6.91	2817	0.29	19.81	24.1	" "
	0840	3.25	46.28	14.45	11.6	6.92	2798	0.31	20.78	25.2	" "
	0845	3.95	47.44		11.7	6.91	2781	0.30	19.56	26.7	" "
NOTES (continued)											
Bladder Pump / Clear / No Color / No odor											
ABBREVIATIONS											
Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units											

Low-Flow Sampling Form

Page

Draw-start
31.83

700 C 845
6 bottles
Removal pump

Site: Vermillion		Client: Vista	
Project Number:		Start Date: 2 / / 2024	
Task #:		Time: 0855	
Field Personnel: A. Beckett / T. Closen / D. McCov		Finish Date: 2.21.24	
Time: 1423		Time: 0920	
WELL INFORMATION		EVENT TYPE	
Well ID:		Well Development	
Casing ID:		Well Volume Approach Sampling	
inches		Low-Flow / Low Stress Sampling Other (Specify): Low Flow	

[illegible]

Page:

705 @ ~~0920~~ 0920
6 Bolls

[illegible]

Page 1

Low-Flow Sampling Form

~~Handwritten scribbles~~

OK
□ □
- Dry During night
7#5 - no water
Both p.m/s removed

PROJECT INFORMATION

WELL INFORMATION

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
P-12	1300 1300		109.06								
MVGL	1305		110.45		12.9	7.23	434	2.94		-74.8	clear
Pump	1310		110.61		13.1	7.37	932	.45		-139.0	clear
Pump	1315		110.86		13.1	7.39	944	.34		-140.0	clear
Pump	1320		111.31		13.0	7.40	942	.26		-142.8	clear
Pump	1325		111.85		13.0	7.40	933	.20		-144.6	Gloamy
Pumps	1330		112.35		13.00	7.40	927	.18	36	-146.4	" "
Pump	1335		113.03		13.00	7.41	910	0.15	22.94	-149.4	" "
Pump	1340	2.5	113.34		13.00	7.42	911	0.14	22.7	-152.1	clear
NOTES (continued)										ABBREVIATIONS	
Bladder Pump / Clear / No Color / No odor										Cond. - Actual Conductivity PT BIOC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units	

Sampled @ 13:45 10/18

Low-Flow Sampling Form

Page

deep well

79250 psi

PROJECT INFORMATION	
Site: Vermillion	Client: Visitra
Project Number:	Start Date: 2/20/2024 Time: 1420
Field Personnel: A. Beckett / T. Closen / D. McCoy	Finish Date: 2/20/24 Time: 1545
EVENT TYPE	
Well ID: VER-1039	Well Development
Casing ID: inches	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)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
pre	1425		130.23							
purge	1430		131.71	13.3	7.02	1747	6.83	122.00	70.1	clearish
	1445		132.40	13.3	7.01	1733	6.05	120.75	77.4	"
	1450		133.51	13.3	7.00	1732	5.93	81.44	77.4	"
	1455		134.53	13.2	7.00	1730	5.83	46.10	77.7	"
	1500		134.99	13.1	7.00	1731	5.87	46.81	81.9	"
	1505		135.09	13.0	7.00	1733	5.88	40.20	84.8	"
	1510	2.5	134.98	13.1	7.00	1732	5.8	39.51	85.2	
NOTES (continued)						ABBREVIATIONS				
Bladder Pump / Clear / No Color / No odor						ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units				

Sampled @ 1515

bottles

nitric acid

del

4250 psi - 300 psi

PROJECT INFORMATION			
Site: <u>Vermillion</u>	Client: <u>Vistra</u>		
Project Number:	Task #: _____	Start Date: <u>2/21/2024</u>	Time: _____
Field Personnel: <u>A. Beckett, T. Clossen, D. McCoy</u>		Finish Date: _____	Time: <u>1423</u>
WELL INFORMATION		EVENT TYPE	
Well ID: <u>NED-1</u>		Well Development	Low-Flow / Low Stress Sampling Other
Casing ID: _____	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)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
1A-10	14:10		2-32								
1A-20	14:20		2-72		10.8	7.80	1663	0.12	19.52	-178.3	clear
1A-23	14:23		2-74		10.8	7.74	1684	0.08	14.90	-157.5	clear
1A-36	14:36		2-76		10.8	7.69	1712	0.03	9.60	-167.0	clear
1A-35	14:35		2-73		10.4	7.69	1719	0.01	8.26	-175.1	clear
1A-40	14:40		2-74		10.6	7.70	1720	0.00	6.05	-186.6	clear
1A-45	14:45		2-79		10.9	7.75	1717	0.00	5.20	-187.6	clear
1A-50	14:50		2-76		10.0	7.77	1719	0.00	4.65	-193.9	clear
1A-55	14:55		2-74		10.6	7.78	1721	0.00	4.63	-194.1	clear
NOTES (continued)								ABBREVIATIONS			
Bladder Pump / Clear / No Color / No odor								Cond - Actual Conductivity PT BIOC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units			

Page:

VER_NED.I Sample Q 15:00

PROJECT INFORMATION											
Site:	Vermilion	Client:	Vistra								
Project Number:		Start Date:	2 / 2024	Time:	13:05						
Field Personnel:	A. Beckett / T. Closen / D. McCoy	Finish Date:	2-20-24	Time:		1423					
WELL INFORMATION			EVENT TYPE								
Well ID:	NP3	Well Development	Low-Flow / Low Stress Sampling Other								
Casing ID:	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)	pH (SU)	SEC or Cond. (µS/cm @ 25°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Visual Clarity
	13:05	-	16.64								
	13:10	0.5	17.61	0.97	13.0	8.09	1551	2.03	73.03	0.1	clear
	13:15	1.0	18.24	1.64	13.0	8.24	1557	0.86	129.81	0.8	1.122
	13:20	1.5	18.83	2.14	13.1	8.34	1603	0.77	69.33	0.8	clear
	13:25	2.0	19.07	2.43	13.1	8.31	1597	0.84	71.47	0.86	clear
	13:30	2.5	19.23	2.59	13.1	8.27	1589	0.90	75.94	0.93	clear
	13:35	3.0			13.0	8.25	1586	0.93	73.25	0.93	clear
			NOTES (continued)				ABBREVIATIONS				
Bladder Pump / Clear / No Color / No odor							ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Diss - Actual Conductivity FT BTOD - Feet Below Top of casing na -				

Page

Low-Flow Sampling Form

11

ND3 @ 13:40

ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
133 S 4th, Suite 206
Springfield, Illinois 62701

Generated 03/25/24 11:49:42

JOB DESCRIPTION

VER-24Q1
VER_000_RAD

JOB NUMBER

500-246480-2

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



Generated
03/25/24 11:49:42

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Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	5
Method Summary	7
Sample Summary	8
Client Sample Results	9
Definitions	40
QC Association	41
QC Sample Results	43
Chronicle	49
Certification Summary	57
Chain of Custody	58
Receipt Checklists	69
Tracer Carrier Summary	72



Client: Vistra Energy Corp
Project: VER-24Q1

Job ID: 500-246480-2

Eurofins Chicago

Job Narrative
500-246480-2

Receipt

The samples were received on 02/21/24 11:20. 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 1.5° C, 2.5° C, 2.6° C, 2.7° C, 3.6° C, 3.9° C, 4.1° C, 4.1° C, 5.1° C and 5.3° C.

Receipt Exceptions

Received 7 bottles for sample 5, COC has 6. Received Rad bottles for sample 20, not marked on COC. VER_010 (500-246480-5) and VER_ND3 (500-246480-20)
VER_ND3 (Sample 20) not requesting Rad analysis on client SARs and confirmed via email, not logged for Rad.

RAD

Method 904.0: Radium-228 batch 649789

The detection goal was not met for the following sample due to the reduced sample volume attributed to the presence of matrix interferences: VER_070&D (500-246480-30). Analytical results are reported with the detection limit achieved.

Methods 904.0: Radium-228 prep batch 160-649394:

The detection goal was not met for the following samples due to the reduced sample volume attributed to the presence of matrix interferences: VER_034 (500-246480-8), VER_038 (500-246480-12) and VER_042 (500-246480-15). Analytical results are reported with the detection limit achieved.

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

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Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Client Sample ID: VER_002	Lab Sample ID: 500-246480-1
No Detections.	
Client Sample ID: VER_003R	Lab Sample ID: 500-246480-2
No Detections.	
Client Sample ID: VER_003R_FD	Lab Sample ID: 500-246480-3
No Detections.	
Client Sample ID: VER_008R	Lab Sample ID: 500-246480-4
No Detections.	
Client Sample ID: VER_010	Lab Sample ID: 500-246480-5
No Detections.	
Client Sample ID: VER_020	Lab Sample ID: 500-246480-6
No Detections.	
Client Sample ID: VER_021	Lab Sample ID: 500-246480-7
No Detections.	
Client Sample ID: VER_034	Lab Sample ID: 500-246480-8
No Detections.	
Client Sample ID: VER_036	Lab Sample ID: 500-246480-9
No Detections.	
Client Sample ID: VER_036_FD	Lab Sample ID: 500-246480-10
No Detections.	
Client Sample ID: VER_037	Lab Sample ID: 500-246480-11
No Detections.	
Client Sample ID: VER_038	Lab Sample ID: 500-246480-12
No Detections.	
Client Sample ID: VER_040	Lab Sample ID: 500-246480-13
No Detections.	
Client Sample ID: VER_040_FD	Lab Sample ID: 500-246480-14
No Detections.	
Client Sample ID: VER_042	Lab Sample ID: 500-246480-15
No Detections.	
Client Sample ID: VER_043	Lab Sample ID: 500-246480-16
No Detections.	

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
SDG: VER_000_RAD
VER-845-912

Client Sample ID: VER_043_FD	Lab Sample ID: 500-246480-17
☐ No Detections.	
Client Sample ID: VER_101&	Lab Sample ID: 500-246480-18
☐ No Detections.	
Client Sample ID: VER_103&	Lab Sample ID: 500-246480-19
☐ No Detections.	
Client Sample ID: VER_EB1	Lab Sample ID: 500-246480-21
☐ No Detections.	
Client Sample ID: VER_004	Lab Sample ID: 500-246480-22
☐ No Detections.	
Client Sample ID: VER_005	Lab Sample ID: 500-246480-23
☐ No Detections.	
Client Sample ID: VER_007R	Lab Sample ID: 500-246480-24
☐ No Detections.	
Client Sample ID: VER_016A	Lab Sample ID: 500-246480-25
☐ No Detections.	
Client Sample ID: VER_022	Lab Sample ID: 500-246480-26
☐ No Detections.	
Client Sample ID: VER_035&D	Lab Sample ID: 500-246480-27
☐ No Detections.	
Client Sample ID: VER_041	Lab Sample ID: 500-246480-28
☐ No Detections.	
Client Sample ID: VER_070#S	Lab Sample ID: 500-246480-29
☐ No Detections.	
Client Sample ID: VER_070&D	Lab Sample ID: 500-246480-30
☐ No Detections.	
Client Sample ID: VER_FB	Lab Sample ID: 500-246480-32
☐ No Detections.	
Client Sample ID: VER_EB2	Lab Sample ID: 500-246480-33
☐ No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912

Method Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-2
SDG: VER_000_RAD

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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

Sample Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-246480-1	VER_002	Water	02/20/24 12:20	02/21/24 11:20
500-246480-2	VER_003R	Water	02/20/24 16:40	02/21/24 11:20
500-246480-3	VER_003R_FD	Water	02/20/24 16:40	02/21/24 11:20
500-246480-4	VER_008R	Water	02/20/24 17:25	02/21/24 11:20
500-246480-5	VER_010	Water	02/20/24 17:55	02/21/24 11:20
500-246480-6	VER_020	Water	02/20/24 09:25	02/21/24 11:20
500-246480-7	VER_021	Water	02/20/24 16:30	02/21/24 11:20
500-246480-8	VER_034	Water	02/20/24 09:35	02/21/24 11:20
500-246480-9	VER_036	Water	02/20/24 15:15	02/21/24 11:20
500-246480-10	VER_036_FD	Water	02/20/24 15:15	02/21/24 11:20
500-246480-11	VER_037	Water	02/20/24 14:35	02/21/24 11:20
500-246480-12	VER_038	Water	02/20/24 10:30	02/21/24 11:20
500-246480-13	VER_040	Water	02/20/24 11:20	02/21/24 11:20
500-246480-14	VER_040_FD	Water	02/20/24 11:20	02/21/24 11:20
500-246480-15	VER_042	Water	02/20/24 12:17	02/21/24 11:20
500-246480-16	VER_043	Water	02/20/24 11:30	02/21/24 11:20
500-246480-17	VER_043_FD	Water	02/20/24 11:30	02/21/24 11:20
500-246480-18	VER_101&	Water	02/20/24 13:45	02/21/24 11:20
500-246480-19	VER_103&	Water	02/20/24 15:15	02/21/24 11:20
500-246480-21	VER_EB1	Water	02/20/24 17:50	02/21/24 11:20
500-246480-22	VER_004	Water	02/21/24 08:45	02/22/24 11:18
500-246480-23	VER_005	Water	02/21/24 09:40	02/22/24 11:18
500-246480-24	VER_007R	Water	02/21/24 11:20	02/22/24 11:18
500-246480-25	VER_016A	Water	02/21/24 13:15	02/22/24 11:18
500-246480-26	VER_022	Water	02/21/24 11:10	02/22/24 11:18
500-246480-27	VER_035&D	Water	02/21/24 13:05	02/22/24 11:18
500-246480-28	VER_041	Water	02/21/24 12:05	02/22/24 11:18
500-246480-29	VER_070#S	Water	02/21/24 09:20	02/22/24 11:18
500-246480-30	VER_070&D	Water	02/21/24 08:45	02/22/24 11:18
500-246480-32	VER_FB	Water	02/21/24 15:20	02/22/24 11:18
500-246480-33	VER_EB2	Water	02/21/24 15:50	02/22/24 11:18

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
SDG: VER_000_RAD

Client Sample ID: VER_002

Lab Sample ID: 500-246480-1

Date Collected: 02/20/24 12:20

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.286		0.138	0.140	1.00	0.165	pCi/L	02/23/24 09:44	03/18/24 16:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		30 - 110					02/23/24 09:44	03/18/24 16:30	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.802		0.427	0.434	1.00	0.594	pCi/L	02/23/24 09:49	03/13/24 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		30 - 110					02/23/24 09:49	03/13/24 12:09	1
Y Carrier	85.2		30 - 110					02/23/24 09:49	03/13/24 12:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.09		0.449	0.456	5.00	0.594	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845-QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
SDG: VER_000_RAD

Client Sample ID: VER_003R

Lab Sample ID: 500-246480-2

Date Collected: 02/20/24 16:40

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.611		0.180	0.188	1.00	0.150	pCi/L	02/23/24 09:44	03/18/24 16:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/23/24 09:44	03/18/24 16:31	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.695		0.454	0.459	1.00	0.678	pCi/L	02/23/24 09:49	03/13/24 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/23/24 09:49	03/13/24 12:10	1
Y Carrier	84.5		30 - 110					02/23/24 09:49	03/13/24 12:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.31		0.488	0.496	5.00	0.678	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_003R_FD

Lab Sample ID: 500-246480-3

Date Collected: 02/20/24 16:40

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.432		0.152	0.157	1.00	0.142	pCi/L	02/23/24 09:44	03/18/24 16:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		30 - 110					02/23/24 09:44	03/18/24 16:31	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.22		0.579	0.614	1.00	0.598	pCi/L	02/23/24 09:49	03/13/24 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		30 - 110					02/23/24 09:49	03/13/24 12:10	1
Y Carrier	84.9		30 - 110					02/23/24 09:49	03/13/24 12:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.66		0.599	0.634	5.00	0.598	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Client Sample ID: VER_008R

Lab Sample ID: 500-246480-4

Date Collected: 02/20/24 17:25

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.120	U	0.0890	0.0897	1.00	0.126	pCi/L	02/23/24 09:44	03/18/24 16:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110					02/23/24 09:44	03/18/24 16:31	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.742		0.362	0.368	1.00	0.487	pCi/L	02/23/24 09:49	03/13/24 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110					02/23/24 09:49	03/13/24 12:10	1
Y Carrier	84.9		30 - 110					02/23/24 09:49	03/13/24 12:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.862		0.373	0.379	5.00	0.487	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_010

Lab Sample ID: 500-246480-5

Date Collected: 02/20/24 17:55

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.574		0.192	0.199	1.00	0.200	pCi/L	02/23/24 09:44	03/18/24 16:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		30 - 110					02/23/24 09:44	03/18/24 16:31	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.94		0.593	0.619	1.00	0.674	pCi/L	02/23/24 09:49	03/13/24 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		30 - 110					02/23/24 09:49	03/13/24 12:10	1
Y Carrier	86.0		30 - 110					02/23/24 09:49	03/13/24 12:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.51		0.623	0.650	5.00	0.674	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
SDG: VER_000_RAD

Client Sample ID: VER_020

Lab Sample ID: 500-246480-6

Date Collected: 02/20/24 09:25

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0997	U	0.108	0.108	1.00	0.174	pCi/L	02/23/24 09:44	03/18/24 16:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					02/23/24 09:44	03/18/24 16:32	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.310	U	0.385	0.386	1.00	0.637	pCi/L	02/23/24 09:49	03/13/24 12:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					02/23/24 09:49	03/13/24 12:49	1
Y Carrier	86.4		30 - 110					02/23/24 09:49	03/13/24 12:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.410	U	0.400	0.401	5.00	0.637	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_021

Lab Sample ID: 500-246480-7

Date Collected: 02/20/24 16:30

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.355		0.245	0.247	1.00	0.315	pCi/L	02/23/24 10:00	03/20/24 17:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		30 - 110					02/23/24 10:00	03/20/24 17:50	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.253	U	0.430	0.431	1.00	0.738	pCi/L	02/23/24 10:04	03/20/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		30 - 110					02/23/24 10:04	03/20/24 11:54	1
Y Carrier	78.5		30 - 110					02/23/24 10:04	03/20/24 11:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.608	U	0.495	0.497	5.00	0.738	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_034

Lab Sample ID: 500-246480-8

Date Collected: 02/20/24 09:35

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.216	U	0.469	0.469	1.00	0.861	pCi/L	02/23/24 10:00	03/20/24 17:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	36.5		30 - 110					02/23/24 10:00	03/20/24 17:50	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.62	U G	1.25	1.26	1.00	1.94	pCi/L	02/23/24 10:04	03/20/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	36.5		30 - 110					02/23/24 10:04	03/20/24 11:54	1
Y Carrier	81.1		30 - 110					02/23/24 10:04	03/20/24 11:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.84	U	1.34	1.34	5.00	1.94	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_036

Lab Sample ID: 500-246480-9

Date Collected: 02/20/24 15:15

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.221	U	0.199	0.200	1.00	0.302	pCi/L	02/23/24 10:00	03/20/24 17:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					02/23/24 10:00	03/20/24 17:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.245	U	0.342	0.343	1.00	0.573	pCi/L	02/23/24 10:04	03/20/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					02/23/24 10:04	03/20/24 11:54	1
Y Carrier	84.5		30 - 110					02/23/24 10:04	03/20/24 11:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.466	U	0.396	0.397	5.00	0.573	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_036_FD

Lab Sample ID: 500-246480-10

Date Collected: 02/20/24 15:15

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.194	U	0.172	0.173	1.00	0.254	pCi/L	02/23/24 10:00	03/20/24 17:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					02/23/24 10:00	03/20/24 17:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.337	U	0.328	0.329	1.00	0.526	pCi/L	02/23/24 10:04	03/20/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					02/23/24 10:04	03/20/24 11:54	1
Y Carrier	84.5		30 - 110					02/23/24 10:04	03/20/24 11:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.531		0.370	0.372	5.00	0.526	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_037

Lab Sample ID: 500-246480-11

Date Collected: 02/20/24 14:35

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.597		0.349	0.353	1.00	0.426	pCi/L	02/23/24 10:00	03/20/24 17:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.6		30 - 110					02/23/24 10:00	03/20/24 17:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.24		0.620	0.631	1.00	0.848	pCi/L	02/23/24 10:04	03/20/24 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.6		30 - 110					02/23/24 10:04	03/20/24 11:54	1
Y Carrier	82.6		30 - 110					02/23/24 10:04	03/20/24 11:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.84		0.711	0.723	5.00	0.848	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_038

Lab Sample ID: 500-246480-12

Date Collected: 02/20/24 10:30

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.489	U	0.439	0.442	1.00	0.667	pCi/L	02/23/24 10:00	03/20/24 18:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		30 - 110					02/23/24 10:00	03/20/24 18:01	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.16	U G	0.781	0.788	1.00	1.17	pCi/L	02/23/24 10:04	03/20/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		30 - 110					02/23/24 10:04	03/20/24 11:55	1
Y Carrier	83.4		30 - 110					02/23/24 10:04	03/20/24 11:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.65		0.896	0.903	5.00	1.17	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_040

Lab Sample ID: 500-246480-13

Date Collected: 02/20/24 11:20

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0605	U	0.162	0.162	1.00	0.302	pCi/L	02/23/24 10:00	03/20/24 18:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/23/24 10:00	03/20/24 18:02	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.976		0.380	0.390	1.00	0.481	pCi/L	02/23/24 10:04	03/20/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/23/24 10:04	03/20/24 11:55	1
Y Carrier	82.6		30 - 110					02/23/24 10:04	03/20/24 11:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.04		0.413	0.422	5.00	0.481	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_040_FD

Lab Sample ID: 500-246480-14

Date Collected: 02/20/24 11:20

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.309		0.214	0.216	1.00	0.301	pCi/L	02/23/24 10:00	03/20/24 18:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		30 - 110					02/23/24 10:00	03/20/24 18:02	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.701		0.336	0.342	1.00	0.453	pCi/L	02/23/24 10:04	03/20/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		30 - 110					02/23/24 10:04	03/20/24 11:55	1
Y Carrier	80.4		30 - 110					02/23/24 10:04	03/20/24 11:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.01		0.398	0.404	5.00	0.453	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_042

Lab Sample ID: 500-246480-15

Date Collected: 02/20/24 12:17

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.616	U	0.464	0.467	1.00	0.678	pCi/L	02/23/24 10:00	03/20/24 18:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.5		30 - 110					02/23/24 10:00	03/20/24 18:02	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.612	U G	0.638	0.641	1.00	1.03	pCi/L	02/23/24 10:04	03/20/24 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.5		30 - 110					02/23/24 10:04	03/20/24 11:55	1
Y Carrier	80.0		30 - 110					02/23/24 10:04	03/20/24 11:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.23		0.789	0.793	5.00	1.03	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_043

Lab Sample ID: 500-246480-16

Date Collected: 02/20/24 11:30

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000	U	0.293	0.293	1.00	0.581	pCi/L	02/23/24 10:00	03/20/24 18:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		30 - 110					02/23/24 10:00	03/20/24 18:02	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.917		0.572	0.578	1.00	0.839	pCi/L	02/23/24 10:04	03/20/24 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		30 - 110					02/23/24 10:04	03/20/24 11:56	1
Y Carrier	82.2		30 - 110					02/23/24 10:04	03/20/24 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.917		0.643	0.648	5.00	0.839	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_043_FD

Lab Sample ID: 500-246480-17

Date Collected: 02/20/24 11:30

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.643		0.338	0.343	1.00	0.408	pCi/L	02/23/24 10:00	03/20/24 18:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					02/23/24 10:00	03/20/24 18:02	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.554	U	0.470	0.472	1.00	0.730	pCi/L	02/23/24 10:04	03/20/24 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					02/23/24 10:04	03/20/24 11:56	1
Y Carrier	76.6		30 - 110					02/23/24 10:04	03/20/24 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.20		0.579	0.583	5.00	0.730	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Client Sample ID: VER_101&

Lab Sample ID: 500-246480-18

Date Collected: 02/20/24 13:45

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.153	U	0.246	0.246	1.00	0.429	pCi/L	02/23/24 10:00	03/20/24 18:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					02/23/24 10:00	03/20/24 18:03	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.211	U	0.399	0.399	1.00	0.694	pCi/L	02/23/24 10:04	03/20/24 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					02/23/24 10:04	03/20/24 11:56	1
Y Carrier	83.0		30 - 110					02/23/24 10:04	03/20/24 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.363	U	0.469	0.469	5.00	0.694	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_103&

Lab Sample ID: 500-246480-19

Date Collected: 02/20/24 15:15

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0907	U	0.203	0.204	1.00	0.375	pCi/L	02/23/24 10:00	03/20/24 18:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		30 - 110					02/23/24 10:00	03/20/24 18:03	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.511	U	0.445	0.447	1.00	0.698	pCi/L	02/23/24 10:04	03/20/24 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		30 - 110					02/23/24 10:04	03/20/24 11:56	1
Y Carrier	82.2		30 - 110					02/23/24 10:04	03/20/24 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.602	U	0.489	0.491	5.00	0.698	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_EB1

Lab Sample ID: 500-246480-21

Date Collected: 02/20/24 17:50

Matrix: Water

Date Received: 02/21/24 11:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0850	U	0.208	0.208	1.00	0.376	pCi/L	02/23/24 10:00	03/20/24 18:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/23/24 10:00	03/20/24 18:03	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.154	U	0.283	0.283	1.00	0.489	pCi/L	02/23/24 10:04	03/20/24 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/23/24 10:04	03/20/24 12:07	1
Y Carrier	81.5		30 - 110					02/23/24 10:04	03/20/24 12:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.239	U	0.351	0.351	5.00	0.489	pCi/L		03/22/24 19:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_004

Lab Sample ID: 500-246480-22

Date Collected: 02/21/24 08:45

Matrix: Water

Date Received: 02/22/24 11:18

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.419		0.137	0.142	1.00	0.147	pCi/L	02/26/24 10:15	03/19/24 09:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					02/26/24 10:15	03/19/24 09:18	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.392	U	0.303	0.305	1.00	0.478	pCi/L	02/26/24 10:27	03/12/24 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					02/26/24 10:27	03/12/24 12:17	1
Y Carrier	76.3		30 - 110					02/26/24 10:27	03/12/24 12:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.812		0.333	0.336	5.00	0.478	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_005

Lab Sample ID: 500-246480-23

Date Collected: 02/21/24 09:40

Matrix: Water

Date Received: 02/22/24 11:18

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0682	U	0.0708	0.0711	1.00	0.112	pCi/L	02/26/24 10:15	03/19/24 09:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/26/24 10:15	03/19/24 09:18	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.199	U	0.280	0.281	1.00	0.467	pCi/L	02/26/24 10:27	03/12/24 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/26/24 10:27	03/12/24 12:18	1
Y Carrier	80.0		30 - 110					02/26/24 10:27	03/12/24 12:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.267	U	0.289	0.290	5.00	0.467	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_007R

Lab Sample ID: 500-246480-24

Date Collected: 02/21/24 11:20

Matrix: Water

Date Received: 02/22/24 11:18

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116		0.0750	0.0757	1.00	0.0996	pCi/L	02/26/24 10:15	03/19/24 09:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					02/26/24 10:15	03/19/24 09:19	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.463		0.285	0.288	1.00	0.436	pCi/L	02/26/24 10:27	03/12/24 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					02/26/24 10:27	03/12/24 12:18	1
Y Carrier	81.5		30 - 110					02/26/24 10:27	03/12/24 12:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.579		0.295	0.298	5.00	0.436	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_016A

Lab Sample ID: 500-246480-25

Date Collected: 02/21/24 13:15

Matrix: Water

Date Received: 02/22/24 11:18

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.989		0.260	0.275	1.00	0.182	pCi/L	02/26/24 10:15	03/19/24 09:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110					02/26/24 10:15	03/19/24 09:19	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.780	U	0.576	0.581	1.00	0.898	pCi/L	02/26/24 10:27	03/12/24 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110					02/26/24 10:27	03/12/24 12:18	1
Y Carrier	73.6		30 - 110					02/26/24 10:27	03/12/24 12:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.77		0.632	0.643	5.00	0.898	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Client Sample ID: VER_022

Lab Sample ID: 500-246480-26

Date Collected: 02/21/24 11:10

Matrix: Water

Date Received: 02/22/24 11:18

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.519		0.134	0.142	1.00	0.103	pCi/L	02/26/24 10:15	03/19/24 09:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		30 - 110					02/26/24 10:15	03/19/24 09:19	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.206	U	0.251	0.252	1.00	0.415	pCi/L	02/26/24 10:27	03/12/24 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		30 - 110					02/26/24 10:27	03/12/24 12:18	1
Y Carrier	78.9		30 - 110					02/26/24 10:27	03/12/24 12:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.724		0.285	0.289	5.00	0.415	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_035&D

Lab Sample ID: 500-246480-27

Date Collected: 02/21/24 13:05

Matrix: Water

Date Received: 02/22/24 11:18

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0542	U	0.0625	0.0627	1.00	0.101	pCi/L	02/26/24 10:15	03/19/24 09:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					02/26/24 10:15	03/19/24 09:19	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.504	U	0.358	0.361	1.00	0.538	pCi/L	02/26/24 10:27	03/12/24 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					02/26/24 10:27	03/12/24 12:18	1
Y Carrier	78.9		30 - 110					02/26/24 10:27	03/12/24 12:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.558		0.363	0.366	5.00	0.538	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_041

Lab Sample ID: 500-246480-28

Date Collected: 02/21/24 12:05

Matrix: Water

Date Received: 02/22/24 11:18

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.472		0.156	0.162	1.00	0.127	pCi/L	02/26/24 10:15	03/19/24 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		30 - 110					02/26/24 10:15	03/19/24 09:20	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.648	U	0.518	0.521	1.00	0.799	pCi/L	02/26/24 10:27	03/12/24 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		30 - 110					02/26/24 10:27	03/12/24 12:18	1
Y Carrier	77.0		30 - 110					02/26/24 10:27	03/12/24 12:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.12		0.541	0.546	5.00	0.799	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
SDG: VER_000_RAD

Client Sample ID: VER_070#S

Lab Sample ID: 500-246480-29

Date Collected: 02/21/24 09:20

Matrix: Water

Date Received: 02/22/24 11:18

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0859	U	0.0700	0.0704	1.00	0.0983	pCi/L	02/26/24 10:15	03/19/24 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					02/26/24 10:15	03/19/24 09:20	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.239	U	0.341	0.342	1.00	0.576	pCi/L	02/26/24 10:27	03/12/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					02/26/24 10:27	03/12/24 12:19	1
Y Carrier	77.8		30 - 110					02/26/24 10:27	03/12/24 12:19	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.325	U	0.348	0.349	5.00	0.576	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_070&D

Lab Sample ID: 500-246480-30

Date Collected: 02/21/24 08:45

Matrix: Water

Date Received: 02/22/24 11:18

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.527		0.205	0.211	1.00	0.186	pCi/L	02/26/24 10:15	03/19/24 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					02/26/24 10:15	03/19/24 09:20	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.41	G	0.892	0.901	1.00	1.33	pCi/L	02/26/24 10:27	03/12/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					02/26/24 10:27	03/12/24 12:19	1
Y Carrier	78.1		30 - 110					02/26/24 10:27	03/12/24 12:19	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.94		0.915	0.925	5.00	1.33	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_FB

Lab Sample ID: 500-246480-32

Date Collected: 02/21/24 15:20

Matrix: Water

Date Received: 02/22/24 11:18

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0238	U	0.0436	0.0437	1.00	0.105	pCi/L	02/26/24 10:15	03/19/24 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		30 - 110					02/26/24 10:15	03/19/24 09:20	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.394	U	0.331	0.333	1.00	0.517	pCi/L	02/26/24 10:27	03/12/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		30 - 110					02/26/24 10:27	03/12/24 12:19	1
Y Carrier	77.0		30 - 110					02/26/24 10:27	03/12/24 12:19	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.394	U	0.334	0.336	5.00	0.517	pCi/L		03/22/24 19:14	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_EB2

Lab Sample ID: 500-246480-33

Date Collected: 02/21/24 15:50

Matrix: Water

Date Received: 02/22/24 11:18

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0198	U	0.0493	0.0493	1.00	0.0916	pCi/L	02/26/24 10:15	03/22/24 06:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/26/24 10:15	03/22/24 06:39	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.307	U	0.289	0.290	1.00	0.459	pCi/L	02/26/24 10:27	03/12/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					02/26/24 10:27	03/12/24 12:19	1
Y Carrier	81.9		30 - 110					02/26/24 10:27	03/12/24 12:19	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.326	U	0.293	0.294	5.00	0.459	pCi/L		03/22/24 19:14	1

Client: Vistra Energy Corp
 Project/Site: VER-24Q1

Job ID: 500-246480-2
 SDG: VER_000_RAD

Qualifiers

Rad

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

Glossary

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

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
SDG: VER_000_RAD

Rad

Prep Batch: 649386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-1	VER_002	Total/NA	Water	PrecSep-21	
500-246480-2	VER_003R	Total/NA	Water	PrecSep-21	
500-246480-3	VER_003R_FD	Total/NA	Water	PrecSep-21	
500-246480-4	VER_008R	Total/NA	Water	PrecSep-21	
500-246480-5	VER_010	Total/NA	Water	PrecSep-21	
500-246480-6	VER_020	Total/NA	Water	PrecSep-21	
MB 160-649386/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-649386/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-246480-6 MS	VER_020	Total/NA	Water	PrecSep-21	
500-246480-6 MSD	VER_020	Total/NA	Water	PrecSep-21	

Prep Batch: 649387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-1	VER_002	Total/NA	Water	PrecSep_0	
500-246480-2	VER_003R	Total/NA	Water	PrecSep_0	
500-246480-3	VER_003R_FD	Total/NA	Water	PrecSep_0	
500-246480-4	VER_008R	Total/NA	Water	PrecSep_0	
500-246480-5	VER_010	Total/NA	Water	PrecSep_0	
500-246480-6	VER_020	Total/NA	Water	PrecSep_0	
MB 160-649387/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-649387/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-246480-6 MS	VER_020	Total/NA	Water	PrecSep_0	
500-246480-6 MSD	VER_020	Total/NA	Water	PrecSep_0	

Prep Batch: 649393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-7	VER_021	Total/NA	Water	PrecSep-21	
500-246480-8	VER_034	Total/NA	Water	PrecSep-21	
500-246480-9	VER_036	Total/NA	Water	PrecSep-21	
500-246480-10	VER_036_FD	Total/NA	Water	PrecSep-21	
500-246480-11	VER_037	Total/NA	Water	PrecSep-21	
500-246480-12	VER_038	Total/NA	Water	PrecSep-21	
500-246480-13	VER_040	Total/NA	Water	PrecSep-21	
500-246480-14	VER_040_FD	Total/NA	Water	PrecSep-21	
500-246480-15	VER_042	Total/NA	Water	PrecSep-21	
500-246480-16	VER_043	Total/NA	Water	PrecSep-21	
500-246480-17	VER_043_FD	Total/NA	Water	PrecSep-21	
500-246480-18	VER_101&	Total/NA	Water	PrecSep-21	
500-246480-19	VER_103&	Total/NA	Water	PrecSep-21	
500-246480-21	VER_EB1	Total/NA	Water	PrecSep-21	
MB 160-649393/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-649393/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-246480-15 MS	VER_042	Total/NA	Water	PrecSep-21	
500-246480-15 MSD	VER_042	Total/NA	Water	PrecSep-21	

Prep Batch: 649394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-7	VER_021	Total/NA	Water	PrecSep_0	
500-246480-8	VER_034	Total/NA	Water	PrecSep_0	
500-246480-9	VER_036	Total/NA	Water	PrecSep_0	
500-246480-10	VER_036_FD	Total/NA	Water	PrecSep_0	

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
SDG: VER_000_RAD

Rad (Continued)

Prep Batch: 649394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-11	VER_037	Total/NA	Water	PrecSep_0	
500-246480-12	VER_038	Total/NA	Water	PrecSep_0	
500-246480-13	VER_040	Total/NA	Water	PrecSep_0	
500-246480-14	VER_040_FD	Total/NA	Water	PrecSep_0	
500-246480-15	VER_042	Total/NA	Water	PrecSep_0	
500-246480-16	VER_043	Total/NA	Water	PrecSep_0	
500-246480-17	VER_043_FD	Total/NA	Water	PrecSep_0	
500-246480-18	VER_101&	Total/NA	Water	PrecSep_0	
500-246480-19	VER_103&	Total/NA	Water	PrecSep_0	
500-246480-21	VER_EB1	Total/NA	Water	PrecSep_0	
MB 160-649394/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-649394/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-246480-15 MS	VER_042	Total/NA	Water	PrecSep_0	
500-246480-15 MSD	VER_042	Total/NA	Water	PrecSep_0	

Prep Batch: 649787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-22	VER_004	Total/NA	Water	PrecSep-21	
500-246480-23	VER_005	Total/NA	Water	PrecSep-21	
500-246480-24	VER_007R	Total/NA	Water	PrecSep-21	
500-246480-25	VER_016A	Total/NA	Water	PrecSep-21	
500-246480-26	VER_022	Total/NA	Water	PrecSep-21	
500-246480-27	VER_035&D	Total/NA	Water	PrecSep-21	
500-246480-28	VER_041	Total/NA	Water	PrecSep-21	
500-246480-29	VER_070#S	Total/NA	Water	PrecSep-21	
500-246480-30	VER_070&D	Total/NA	Water	PrecSep-21	
500-246480-32	VER_FB	Total/NA	Water	PrecSep-21	
500-246480-33	VER_EB2	Total/NA	Water	PrecSep-21	
MB 160-649787/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-649787/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-246480-33 DU	VER_EB2	Total/NA	Water	PrecSep-21	

Prep Batch: 649789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246480-22	VER_004	Total/NA	Water	PrecSep_0	
500-246480-23	VER_005	Total/NA	Water	PrecSep_0	
500-246480-24	VER_007R	Total/NA	Water	PrecSep_0	
500-246480-25	VER_016A	Total/NA	Water	PrecSep_0	
500-246480-26	VER_022	Total/NA	Water	PrecSep_0	
500-246480-27	VER_035&D	Total/NA	Water	PrecSep_0	
500-246480-28	VER_041	Total/NA	Water	PrecSep_0	
500-246480-29	VER_070#S	Total/NA	Water	PrecSep_0	
500-246480-30	VER_070&D	Total/NA	Water	PrecSep_0	
500-246480-32	VER_FB	Total/NA	Water	PrecSep_0	
500-246480-33	VER_EB2	Total/NA	Water	PrecSep_0	
MB 160-649789/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-649789/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-246480-33 DU	VER_EB2	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-649386/1-A
Matrix: Water
Analysis Batch: 652964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649386

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01482	U	0.0578	0.0578	1.00	0.115	pCi/L	02/23/24 09:44	03/18/24 14:36	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		30 - 110					02/23/24 09:44	03/18/24 14:36	1

Lab Sample ID: LCS 160-649386/2-A
Matrix: Water
Analysis Batch: 653503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649386

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	10.33		1.07	1.00	0.115	pCi/L	91	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	103		30 - 110							

Lab Sample ID: 500-246480-6 MS
Matrix: Water
Analysis Batch: 652964

Client Sample ID: VER_020
Prep Type: Total/NA
Prep Batch: 649386

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.0997	U	11.4	10.39		1.11	1.00	0.114	pCi/L	90	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	97.5		30 - 110								

Lab Sample ID: 500-246480-6 MSD
Matrix: Water
Analysis Batch: 652964

Client Sample ID: VER_020
Prep Type: Total/NA
Prep Batch: 649386

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.0997	U	11.4	10.77		1.17	1.00	0.149	pCi/L	94	60 - 140	0.17	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	90.9		30 - 110										

Lab Sample ID: MB 160-649393/1-A
Matrix: Water
Analysis Batch: 653196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649393

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.08645	U	0.112	0.112	1.00	0.294	pCi/L	02/23/24 10:00	03/20/24 17:50	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
8th QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
SDG: VER_000_RAD

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-649393/1-A
Matrix: Water
Analysis Batch: 653196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649393

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110	02/23/24 10:00	03/20/24 17:50	1

Lab Sample ID: LCS 160-649393/2-A
Matrix: Water
Analysis Batch: 653196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649393

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	8.889		1.17	1.00	0.230	pCi/L	78	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	105		30 - 110						

Lab Sample ID: 500-246480-15 MS
Matrix: Water
Analysis Batch: 653266

Client Sample ID: VER_042
Prep Type: Total/NA
Prep Batch: 649393

Analyte	Sample	Sample	Spike	MS	MS	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
	Result	Qual		Result	Qual								
Radium-226	0.616	U	15.2	13.31		1.71	1.00	0.442	pCi/L	84	60 - 140		
Carrier	MS %Yield	MS Qualifier	Limits										
Ba Carrier	104		30 - 110										

Lab Sample ID: 500-246480-15 MSD
Matrix: Water
Analysis Batch: 653266

Client Sample ID: VER_042
Prep Type: Total/NA
Prep Batch: 649393

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.616	U	15.1	16.15		2.24	1.00	0.726	pCi/L	103	60 - 140	0.72	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	58.4		30 - 110										

Lab Sample ID: MB 160-649787/1-A
Matrix: Water
Analysis Batch: 653003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649787

			Count	Total						
	MB	MB	Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.007234	U	0.0501	0.0501	1.00	0.101	pCi/L	02/26/24 10:15	03/19/24 09:18	1
	MB	MB								
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		30 - 110					02/26/24 10:15	03/19/24 09:18	1

Eurofins Chicago

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
8th QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-649787/2-A
Matrix: Water
Analysis Batch: 653003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649787

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	9.894		1.04	1.00	0.0965	pCi/L	87	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	102		30 - 110							

Lab Sample ID: 500-246480-33 DU
Matrix: Water
Analysis Batch: 653597

Client Sample ID: VER_EB2
Prep Type: Total/NA
Prep Batch: 649787

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0198	U	0.01669	U	0.0479	1.00	0.0913	pCi/L	0.03	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	95.7		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-649387/1-A
Matrix: Water
Analysis Batch: 652361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649387

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.02476	U	0.285	0.285	1.00	0.550	pCi/L	02/23/24 09:49	03/13/24 12:48	1
Carrier	MB %Yield	MB Qualifier	Limits							
Ba Carrier	88.6		30 - 110							
Y Carrier	85.6		30 - 110							

Lab Sample ID: LCS 160-649387/2-A
Matrix: Water
Analysis Batch: 652361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649387

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		9.13	8.618		1.17	1.00	0.454	pCi/L	94	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	105		30 - 110							
Y Carrier	90.5		30 - 110							

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
8th QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
SDG: VER_000_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 500-246480-6 MS
Matrix: Water
Analysis Batch: 652315

Client Sample ID: VER_020
Prep Type: Total/NA
Prep Batch: 649387

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	0.310	U	9.19	10.23		1.38	1.00	0.522	pCi/L	108	60 - 140
MS MS											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	97.5		30 - 110								
Y Carrier	84.1		30 - 110								

Lab Sample ID: 500-246480-6 MSD
Matrix: Water
Analysis Batch: 652315

Client Sample ID: VER_020
Prep Type: Total/NA
Prep Batch: 649387

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.310	U	9.16	9.672		1.35	1.00	0.511	pCi/L	102	60 - 140	0.20	1
MSD MSD													
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	90.9		30 - 110										
Y Carrier	85.2		30 - 110										

Lab Sample ID: MB 160-649394/1-A
Matrix: Water
Analysis Batch: 653196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649394

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4215	U	0.303	0.305	1.00	0.451	pCi/L	02/23/24 10:04	03/20/24 11:53	1
MB MB										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	94.4		30 - 110							
Y Carrier	83.7		30 - 110							
								Prepared	Analyzed	Dil Fac
								02/23/24 10:04	03/20/24 11:53	1
								02/23/24 10:04	03/20/24 11:53	1

Lab Sample ID: LCS 160-649394/2-A
Matrix: Water
Analysis Batch: 653196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649394

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.11	9.820		1.28	1.00	0.431	pCi/L	108	75 - 125
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	105		30 - 110						
Y Carrier	81.9		30 - 110						

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
8TH QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 500-246480-15 MS

Matrix: Water

Analysis Batch: 653196

Client Sample ID: VER_042

Prep Type: Total/NA

Prep Batch: 649394

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	0.612	U G	12.2	13.24		1.73	1.00	0.596	pCi/L	104	60 - 140
MS MS											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	104		30 - 110								
Y Carrier	82.6		30 - 110								

Lab Sample ID: 500-246480-15 MSD

Matrix: Water

Analysis Batch: 653196

Client Sample ID: VER_042

Prep Type: Total/NA

Prep Batch: 649394

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.612	U G	12.1	15.27		2.32	1.00	1.26	pCi/L	121	60 - 140	0.50	1
MSD MSD													
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	58.4		30 - 110										
Y Carrier	78.9		30 - 110										

Lab Sample ID: MB 160-649789/1-A

Matrix: Water

Analysis Batch: 652066

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 649789

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.08858	U	0.251	0.251	1.00	0.449	pCi/L	02/26/24 10:27	03/12/24 12:17	1
MB MB										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	104		30 - 110							
Y Carrier	81.5		30 - 110							
								Prepared	Analyzed	Dil Fac
								02/26/24 10:27	03/12/24 12:17	1
								02/26/24 10:27	03/12/24 12:17	1

Lab Sample ID: LCS 160-649789/2-A

Matrix: Water

Analysis Batch: 652066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 649789

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.13	9.482		1.12	1.00	0.402	pCi/L	104	75 - 125
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	102		30 - 110						
Y Carrier	78.9		30 - 110						

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
815 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 500-246480-33 DU
Matrix: Water
Analysis Batch: 652066

Client Sample ID: VER_EB2
Prep Type: Total/NA
Prep Batch: 649789

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.307	U	0.3580	U	0.336	1.00	0.529	pCi/L	0.08	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	95.7		30 - 110
Y Carrier	73.6		30 - 110

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845: QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
SDG: VER_000_RAD

Client Sample ID: VER_002

Date Collected: 02/20/24 12:20

Date Received: 02/21/24 11:20

Lab Sample ID: 500-246480-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649386	KAC	EET SL	02/23/24 09:44
Total/NA	Analysis	903.0		1	652964	SCB	EET SL	03/18/24 16:30
Total/NA	Prep	PrecSep_0			649387	KAC	EET SL	02/23/24 09:49
Total/NA	Analysis	904.0		1	652361	FLC	EET SL	03/13/24 12:09
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_003R

Date Collected: 02/20/24 16:40

Date Received: 02/21/24 11:20

Lab Sample ID: 500-246480-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649386	KAC	EET SL	02/23/24 09:44
Total/NA	Analysis	903.0		1	652964	SCB	EET SL	03/18/24 16:31
Total/NA	Prep	PrecSep_0			649387	KAC	EET SL	02/23/24 09:49
Total/NA	Analysis	904.0		1	652315	SWS	EET SL	03/13/24 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_003R_FD

Date Collected: 02/20/24 16:40

Date Received: 02/21/24 11:20

Lab Sample ID: 500-246480-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649386	KAC	EET SL	02/23/24 09:44
Total/NA	Analysis	903.0		1	652964	SCB	EET SL	03/18/24 16:31
Total/NA	Prep	PrecSep_0			649387	KAC	EET SL	02/23/24 09:49
Total/NA	Analysis	904.0		1	652315	SWS	EET SL	03/13/24 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_008R

Date Collected: 02/20/24 17:25

Date Received: 02/21/24 11:20

Lab Sample ID: 500-246480-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649386	KAC	EET SL	02/23/24 09:44
Total/NA	Analysis	903.0		1	652964	SCB	EET SL	03/18/24 16:31
Total/NA	Prep	PrecSep_0			649387	KAC	EET SL	02/23/24 09:49
Total/NA	Analysis	904.0		1	652315	SWS	EET SL	03/13/24 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845: QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
SDG: VER_000_RAD

Client Sample ID: VER_010

Date Collected: 02/20/24 17:55

Date Received: 02/21/24 11:20

Lab Sample ID: 500-246480-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649386	KAC	EET SL	02/23/24 09:44
Total/NA	Analysis	903.0		1	652964	SCB	EET SL	03/18/24 16:31
Total/NA	Prep	PrecSep_0			649387	KAC	EET SL	02/23/24 09:49
Total/NA	Analysis	904.0		1	652315	SWS	EET SL	03/13/24 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_020

Date Collected: 02/20/24 09:25

Date Received: 02/21/24 11:20

Lab Sample ID: 500-246480-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649386	KAC	EET SL	02/23/24 09:44
Total/NA	Analysis	903.0		1	652964	SCB	EET SL	03/18/24 16:32
Total/NA	Prep	PrecSep_0			649387	KAC	EET SL	02/23/24 09:49
Total/NA	Analysis	904.0		1	652315	SWS	EET SL	03/13/24 12:49
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_021

Date Collected: 02/20/24 16:30

Date Received: 02/21/24 11:20

Lab Sample ID: 500-246480-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653196	SCB	EET SL	03/20/24 17:50
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:54
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Client Sample ID: VER_034

Date Collected: 02/20/24 09:35

Date Received: 02/21/24 11:20

Lab Sample ID: 500-246480-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653196	SCB	EET SL	03/20/24 17:50
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:54
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Client Sample ID: VER_036
Date Collected: 02/20/24 15:15
Date Received: 02/21/24 11:20

Lab Sample ID: 500-246480-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653196	SCB	EET SL	03/20/24 17:51
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:54
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Client Sample ID: VER_036_FD
Date Collected: 02/20/24 15:15
Date Received: 02/21/24 11:20

Lab Sample ID: 500-246480-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653196	SCB	EET SL	03/20/24 17:51
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:54
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Client Sample ID: VER_037
Date Collected: 02/20/24 14:35
Date Received: 02/21/24 11:20

Lab Sample ID: 500-246480-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653196	SCB	EET SL	03/20/24 17:51
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:54
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Client Sample ID: VER_038
Date Collected: 02/20/24 10:30
Date Received: 02/21/24 11:20

Lab Sample ID: 500-246480-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 18:01
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:55
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845: QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_040

Lab Sample ID: 500-246480-13

Date Collected: 02/20/24 11:20

Matrix: Water

Date Received: 02/21/24 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 18:02
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:55
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Client Sample ID: VER_040_FD

Lab Sample ID: 500-246480-14

Date Collected: 02/20/24 11:20

Matrix: Water

Date Received: 02/21/24 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 18:02
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:55
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Client Sample ID: VER_042

Lab Sample ID: 500-246480-15

Date Collected: 02/20/24 12:17

Matrix: Water

Date Received: 02/21/24 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 18:02
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:55
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Client Sample ID: VER_043

Lab Sample ID: 500-246480-16

Date Collected: 02/20/24 11:30

Matrix: Water

Date Received: 02/21/24 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 18:02
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:56
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845: QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_043_FD

Lab Sample ID: 500-246480-17

Date Collected: 02/20/24 11:30

Matrix: Water

Date Received: 02/21/24 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 18:02
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:56
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Client Sample ID: VER_101&

Lab Sample ID: 500-246480-18

Date Collected: 02/20/24 13:45

Matrix: Water

Date Received: 02/21/24 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 18:03
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:56
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Client Sample ID: VER_103&

Lab Sample ID: 500-246480-19

Date Collected: 02/20/24 15:15

Matrix: Water

Date Received: 02/21/24 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 18:03
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653196	SCB	EET SL	03/20/24 11:56
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Client Sample ID: VER_EB1

Lab Sample ID: 500-246480-21

Date Collected: 02/20/24 17:50

Matrix: Water

Date Received: 02/21/24 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649393	KAC	EET SL	02/23/24 10:00
Total/NA	Analysis	903.0		1	653266	SWS	EET SL	03/20/24 18:03
Total/NA	Prep	PrecSep_0			649394	KAC	EET SL	02/23/24 10:04
Total/NA	Analysis	904.0		1	653266	SWS	EET SL	03/20/24 12:07
Total/NA	Analysis	Ra226_Ra228 Pos		1	653735	EMH	EET SL	03/22/24 19:03

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845: QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Client Sample ID: VER_004

Lab Sample ID: 500-246480-22

Date Collected: 02/21/24 08:45

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649787	KAC	EET SL	02/26/24 10:15
Total/NA	Analysis	903.0		1	653003	SWS	EET SL	03/19/24 09:18
Total/NA	Prep	PrecSep_0			649789	KAC	EET SL	02/26/24 10:27
Total/NA	Analysis	904.0		1	652066	FLC	EET SL	03/12/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_005

Lab Sample ID: 500-246480-23

Date Collected: 02/21/24 09:40

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649787	KAC	EET SL	02/26/24 10:15
Total/NA	Analysis	903.0		1	653003	SWS	EET SL	03/19/24 09:18
Total/NA	Prep	PrecSep_0			649789	KAC	EET SL	02/26/24 10:27
Total/NA	Analysis	904.0		1	652066	FLC	EET SL	03/12/24 12:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_007R

Lab Sample ID: 500-246480-24

Date Collected: 02/21/24 11:20

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649787	KAC	EET SL	02/26/24 10:15
Total/NA	Analysis	903.0		1	653003	SWS	EET SL	03/19/24 09:19
Total/NA	Prep	PrecSep_0			649789	KAC	EET SL	02/26/24 10:27
Total/NA	Analysis	904.0		1	652066	FLC	EET SL	03/12/24 12:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_016A

Lab Sample ID: 500-246480-25

Date Collected: 02/21/24 13:15

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649787	KAC	EET SL	02/26/24 10:15
Total/NA	Analysis	903.0		1	653003	SWS	EET SL	03/19/24 09:19
Total/NA	Prep	PrecSep_0			649789	KAC	EET SL	02/26/24 10:27
Total/NA	Analysis	904.0		1	652066	FLC	EET SL	03/12/24 12:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
845: QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Client Sample ID: VER_022

Lab Sample ID: 500-246480-26

Date Collected: 02/21/24 11:10

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649787	KAC	EET SL	02/26/24 10:15
Total/NA	Analysis	903.0		1	653003	SWS	EET SL	03/19/24 09:19
Total/NA	Prep	PrecSep_0			649789	KAC	EET SL	02/26/24 10:27
Total/NA	Analysis	904.0		1	652066	FLC	EET SL	03/12/24 12:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_035&D

Lab Sample ID: 500-246480-27

Date Collected: 02/21/24 13:05

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649787	KAC	EET SL	02/26/24 10:15
Total/NA	Analysis	903.0		1	653003	SWS	EET SL	03/19/24 09:19
Total/NA	Prep	PrecSep_0			649789	KAC	EET SL	02/26/24 10:27
Total/NA	Analysis	904.0		1	652066	FLC	EET SL	03/12/24 12:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_041

Lab Sample ID: 500-246480-28

Date Collected: 02/21/24 12:05

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649787	KAC	EET SL	02/26/24 10:15
Total/NA	Analysis	903.0		1	653003	SWS	EET SL	03/19/24 09:20
Total/NA	Prep	PrecSep_0			649789	KAC	EET SL	02/26/24 10:27
Total/NA	Analysis	904.0		1	652066	FLC	EET SL	03/12/24 12:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_070#S

Lab Sample ID: 500-246480-29

Date Collected: 02/21/24 09:20

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649787	KAC	EET SL	02/26/24 10:15
Total/NA	Analysis	903.0		1	653003	SWS	EET SL	03/19/24 09:20
Total/NA	Prep	PrecSep_0			649789	KAC	EET SL	02/26/24 10:27
Total/NA	Analysis	904.0		1	652066	FLC	EET SL	03/12/24 12:19
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
8451 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
Job ID: 500-246480-2
VER-845-912
SDG: VER_000_RAD

Client Sample ID: VER_070&D

Lab Sample ID: 500-246480-30

Date Collected: 02/21/24 08:45

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649787	KAC	EET SL	02/26/24 10:15
Total/NA	Analysis	903.0		1	653003	SWS	EET SL	03/19/24 09:20
Total/NA	Prep	PrecSep_0			649789	KAC	EET SL	02/26/24 10:27
Total/NA	Analysis	904.0		1	652066	FLC	EET SL	03/12/24 12:19
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_FB

Lab Sample ID: 500-246480-32

Date Collected: 02/21/24 15:20

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649787	KAC	EET SL	02/26/24 10:15
Total/NA	Analysis	903.0		1	653003	SWS	EET SL	03/19/24 09:20
Total/NA	Prep	PrecSep_0			649789	KAC	EET SL	02/26/24 10:27
Total/NA	Analysis	904.0		1	652066	FLC	EET SL	03/12/24 12:19
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Client Sample ID: VER_EB2

Lab Sample ID: 500-246480-33

Date Collected: 02/21/24 15:50

Matrix: Water

Date Received: 02/22/24 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			649787	KAC	EET SL	02/26/24 10:15
Total/NA	Analysis	903.0		1	653597	SCB	EET SL	03/22/24 06:39
Total/NA	Prep	PrecSep_0			649789	KAC	EET SL	02/26/24 10:27
Total/NA	Analysis	904.0		1	652066	FLC	EET SL	03/12/24 12:19
Total/NA	Analysis	Ra226_Ra228 Pos		1	653736	EMH	EET SL	03/22/24 19:14

Laboratory References:

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

ATTACHMENT B.
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912

Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

Job ID: 500-246480-2
SDG: VER_000_RAD

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-24
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
903.0	PrecSep-21	Water	Radium-226
904.0	PrecSep_0	Water	Radium-228
Ra226_Ra228 Pos		Water	Radium 226 and 228

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		500-246480 COC	
Company: Visira Corp-Vermilion		Report To: Brian Voelker		Attention: Dave McCoy			
Address: 10188 E 2150 North Rd		Copy To: Sam Davies samantha.davies@visiracorp.com		Company Name: A3 Environmental		REGULATORY AGENCY	
Danville, IL 61834		Dianna Tickner - Dianna Tickner@visiracorp.com		Address: 3030 Warrenville Rd, Lisle, IL 60532		NPDES GROUND WATER DRINKING WATER	
Email To: Brian.Voelker@VisiraCorp.com		Purchase Order No		Quote Reference		UST RCRA OTHER	
Phone: (217) 753-8911 Fax:		Project Name: VER-24Q1		Project Manager: Donna Campbell & Dirk Nelson		Site Location	
Requested Due Date/TAT: 10 day		Project Number: 50022750		Profile #		STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
							COLLECTED	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_A	VER_000_B	VER_000_RAD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

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. DAVID MCCOY / Taylor Olson - Allis, Dakota					
SIGNATURE of SAMPLER. [Signature] DATE Signed (MM/DD/YY) 2/20/24					

5.8 → 5.3, 4.6 → 4.1, 3.1 → 2.6, 4.4 → 3.9, 5.6 → 5.1, 4.1 → 3.6

VER-845-912

VER-845-912

Page 2 of 3

Confidential
Page 59 of 73

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

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

Page: 1 of 3

2/21/24

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

Page: 2 of 3

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

[illegible]

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

Page: 3 of 3

[illegible]

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Davey					
SIGNATURE of SAMPLER: 	DATE Signed (MM/DD/YY): 2 21.24				

$$2'12124$$

DM

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Lab PM: Campbell, Donna L		Carrier Tracking No(s):		GOC No: 500-184995.1	
Client Contact: Shipping/Receiving		E-Mail: Donna.Campbell@eurofins.com		State of Origin: Illinois		Page: Page 1 of 3	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #:		500-246480-2	
Address: 13715 Rider Trail North, City: Earth City, State, Zip: MO, 63045		Due Date Requested: 3/21/2024		Analysis Requested		Preservation Codes:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):				A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify) Other:	
Project Name: VER-24Q1		Project #: 50022750		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Site: SSOW#							
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
						Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	
VER_002 (500-246480-1)		2/20/24		12:20 Central		Water	
VER_003R (500-246480-2)		2/20/24		16:40 Central		Water	
VER_003R_FD (500-246480-3)		2/20/24		16:40 Central		Water	
VER_008R (500-246480-4)		2/20/24		17:25 Central		Water	
VER_010 (500-246480-5)		2/20/24		17:55 Central		Water	
VER_020 (500-246480-6)		2/20/24		09:25 Central		Water	
VER_020 (500-246480-6MS)		2/20/24		09:25 Central		MS	
VER_020 (500-246480-6MSD)		2/20/24		09:25 Central		MSD	
VER_021 (500-246480-7)		2/20/24		10:30 Central		Water	
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.							
Possible Hazard Identification							
Unconfirmed							
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2							
Empty Kit Relinquished by: Date: Time: Method of Shipment:							
Relinquished by: Stephanie Hernandez Date/Time: 2/21/24 10:30 Company: EEA							
Relinquished by: Richard Thornley Date/Time: FEB 22 2024 Company: EEA 51L							
Relinquished by: Date/Time: Company:							
Custody Seals Intact: Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks:							

Eurofins Chicago

2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM: Campbell, Donna L	Carrier Tracking No(s)	COC No 500-184995.2
Client Contact Shipping/Receiving		Phone:	E-Mail: Donna.Campbell@et.eurofins.com	State of Origin: Illinois	Page: Page 2 of 3
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois			
Address: 13715 Rider Trail North, City: Earth City State, Zip MO, 63045		Due Date Requested: 3/21/2024			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):			
Email:		PO #:			
Project Name VER-24Q1		WO #:			
Site: SSOW#		Project #: 50022750			
		SSOW#			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefl, BT=tissue, A=air)
VER_034 (500-246480-8)		2/20/24	09:35 Central		Water
VER_036 (500-246480-9)		2/20/24	15:15 Central		Water
VER_036_FD (500-246480-10)		2/20/24	15:15 Central		Water
VER_037 (500-246480-11)		2/20/24	14:35 Central		Water
VER_038 (500-246480-12)		2/20/24	10:30 Central		Water
VER_040 (500-246480-13)		2/20/24	11:20 Central		Water
VER_040_FD (500-246480-14)		2/20/24	11:20 Central		Water
VER_042 (500-246480-15)		2/20/24	12:17 Central		Water
VER_042 (500-246480-15MS)		2/20/24	12:17 Central	MS	Water
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by:					
Date:					
Relinquished by: <i>Stephanie Hemminger</i>					
Date/Time: 2/21/24 1030					
Relinquished by:					
Date/Time:					
Relinquished by:					
Date/Time:					
Custody Seals Intact: Δ Yes Δ No					
Custody Seal No.:					
Cooler Temperature(s) °C and Other Remarks:					
Received by: Richard Thomley					
Date/Time: FEB 22 2024					
Company: <i>ETA STL</i>					
Received by:					
Date/Time:					
Received by:					
Date/Time:					
Cooler Temperature(s) °C and Other Remarks:					
Ver: 06/08/2021					

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)

Client Information (Sub Contract Lab)		Lab PM: Campbell Donna L	Carrier Tracking No(s)	COC No. 500-184995 3												
Shipping/Receiving		E-Mail: Donna.Campbell@et.eurofins.com	State of Origin: Illinois	Page: Page 3 of 3												
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note) NELAP - Illinois														
Address 13715 Rider Trail North, City Earth City State, Zip: MO, 63045 Phone 314-298-8566(Tel) 314-298-8757(Fax) Email: Project # VER-24Q1 Site		Due Date Requested: 3/21/2024 TAT Requested (days): PO # WO # Project # 50022750 SSOW#														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other/both)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep. 21 BL	904.0/PreSep. 0 BL	Ra226_228GPPC P/BL	Analysis Requested				Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)	
VER_042 (500-246480-15MSD)		2/20/24	12:17 Central	MSD	Water			X	X	X						
VER_043 (500-246480-16)		2/20/24	11:30 Central		Water			X	X	X						
VER_043_FD (500-246480-17)		2/20/24	11:30 Central		Water			X	X	X						
VER_101& (500-246480-18)		2/20/24	13:45 Central		Water			X	X	X						
VER_103& (500-246480-19)		2/20/24	15:15 Central		Water			X	X	X						
VER_EB1 (500-246480-21)		2/20/24	17:50 Central		Water			X	X	X						
Total Number of containers																
Special Instructions/Note:																
VER-845-912																

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Unconfirmed		Special Instructions/QC Requirements:	
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Empty Kit Relinquished by:		Date: _____ Time: _____ Method of Shipment	
Relinquished by: <u>Stephanie Hemmelf</u>		Received by: <u>Richard Thomley</u>	
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	
Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks:	

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-246480-2

SDG Number: VER_000_RAD

Login Number: 246480

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	5.3,4.1,2.6,3.9,5.1,3.6,4.1,2.7,1.5,2.5
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	

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-246480-2
SDG Number: VER_000_RAD

Login Number: 246480

List Number: 2

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 02/22/24 01:34 PM

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.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-246480-2
SDG Number: VER_000_RAD

Login Number: 246480

List Number: 3

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 02/23/24 03:47 PM

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.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
84% QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba (30-110)					
500-246480-1	VER_002	102					
500-246480-2	VER_003R	103					
500-246480-3	VER_003R_FD	104					
500-246480-4	VER_008R	94.4					
500-246480-5	VER_010	95.7					
500-246480-6	VER_020	88.3					
500-246480-6 MS	VER_020	97.5					
500-246480-6 MSD	VER_020	90.9					
500-246480-7	VER_021	92.6					
500-246480-8	VER_034	36.5					
500-246480-9	VER_036	101					
500-246480-10	VER_036_FD	101					
500-246480-11	VER_037	74.6					
500-246480-12	VER_038	86.5					
500-246480-13	VER_040	103					
500-246480-14	VER_040_FD	108					
500-246480-15	VER_042	63.5					
500-246480-15 MS	VER_042	104					
500-246480-15 MSD	VER_042	58.4					
500-246480-16	VER_043	80.5					
500-246480-17	VER_043_FD	88.8					
500-246480-18	VER_101&	84.8					
500-246480-19	VER_103&	95.2					
500-246480-21	VER_EB1	103					
500-246480-22	VER_004	94.9					
500-246480-23	VER_005	103					
500-246480-24	VER_007R	101					
500-246480-25	VER_016A	93.9					
500-246480-26	VER_022	99.2					
500-246480-27	VER_035&D	94.9					
500-246480-28	VER_041	87.1					
500-246480-29	VER_070#S	87.6					
500-246480-30	VER_070&D	86.3					
500-246480-32	VER_FB	108					
500-246480-33	VER_EB2	103					
500-246480-33 DU	VER_EB2	95.7					
LCS 160-649386/2-A	Lab Control Sample	103					
LCS 160-649393/2-A	Lab Control Sample	105					
LCS 160-649787/2-A	Lab Control Sample	102					
MB 160-649386/1-A	Method Blank	88.6					
MB 160-649393/1-A	Method Blank	94.4					
MB 160-649787/1-A	Method Blank	104					

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q1

ATTACHMENT B.
84 QUARTERLY REPORT - QUARTER 1, 2024
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912
Job ID: 500-246480-2
SDG: VER_000_RAD

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-246480-1	VER_002	102	85.2
500-246480-2	VER_003R	103	84.5
500-246480-3	VER_003R_FD	104	84.9
500-246480-4	VER_008R	94.4	84.9
500-246480-5	VER_010	95.7	86.0
500-246480-6	VER_020	88.3	86.4
500-246480-6 MS	VER_020	97.5	84.1
500-246480-6 MSD	VER_020	90.9	85.2
500-246480-7	VER_021	92.6	78.5
500-246480-8	VER_034	36.5	81.1
500-246480-9	VER_036	101	84.5
500-246480-10	VER_036_FD	101	84.5
500-246480-11	VER_037	74.6	82.6
500-246480-12	VER_038	86.5	83.4
500-246480-13	VER_040	103	82.6
500-246480-14	VER_040_FD	108	80.4
500-246480-15	VER_042	63.5	80.0
500-246480-15 MS	VER_042	104	82.6
500-246480-15 MSD	VER_042	58.4	78.9
500-246480-16	VER_043	80.5	82.2
500-246480-17	VER_043_FD	88.8	76.6
500-246480-18	VER_101&	84.8	83.0
500-246480-19	VER_103&	95.2	82.2
500-246480-21	VER_EB1	103	81.5
500-246480-22	VER_004	94.9	76.3
500-246480-23	VER_005	103	80.0
500-246480-24	VER_007R	101	81.5
500-246480-25	VER_016A	93.9	73.6
500-246480-26	VER_022	99.2	78.9
500-246480-27	VER_035&D	94.9	78.9
500-246480-28	VER_041	87.1	77.0
500-246480-29	VER_070#S	87.6	77.8
500-246480-30	VER_070&D	86.3	78.1
500-246480-32	VER_FB	108	77.0
500-246480-33	VER_EB2	103	81.9
500-246480-33 DU	VER_EB2	95.7	73.6
LCS 160-649387/2-A	Lab Control Sample	105	90.5
LCS 160-649394/2-A	Lab Control Sample	105	81.9
LCS 160-649789/2-A	Lab Control Sample	102	78.9
MB 160-649387/1-A	Method Blank	88.6	85.6
MB 160-649394/1-A	Method Blank	94.4	83.7
MB 160-649789/1-A	Method Blank	104	81.5

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

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

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
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	E004	Antimony, total	mg/L	--	--	--	--	--	0.00500
16B	UU	E004	Arsenic, total	mg/L	--	--	--	--	--	0.001
16B	UU	E004	Barium, total	mg/L	--	--	--	--	--	0.0820
16B	UU	E004	Beryllium, total	mg/L	--	--	--	--	--	0.001
16B	UU	E004	Boron, total	mg/L	--	--	--	--	--	0.430
16B	UU	E004	Cadmium, total	mg/L	--	--	--	--	--	0.001
16B	UU	E004	Chloride, total	mg/L	--	--	--	--	--	20.4
16B	UU	E004	Chromium, total	mg/L	--	--	--	--	--	0.00400
16B	UU	E004	Cobalt, total	mg/L	--	--	--	--	--	0.0900
16B	UU	E004	Fluoride, total	mg/L	--	--	--	--	--	0.430
16B	UU	E004	Lead, total	mg/L	--	--	--	--	--	0.001
16B	UU	E004	Lithium, total	mg/L	--	--	--	--	--	0.0300
16B	UU	E004	Mercury, total	mg/L	--	--	--	--	--	0.0002
16B	UU	E004	Molybdenum, total	mg/L	--	--	--	--	--	0.00400
16B	UU	E004	pH (field)	SU	--	--	--	--	--	6.3/7.8
16B	UU	E004	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00
16B	UU	E004	Selenium, total	mg/L	--	--	--	--	--	0.001
16B	UU	E004	Sulfate, total	mg/L	--	--	--	--	--	338
16B	UU	E004	Thallium, total	mg/L	--	--	--	--	--	0.002
16B	UU	E004	Total Dissolved Solids	mg/L	--	--	--	--	--	1,080
16A	BCU	E004	Antimony, total	mg/L	04/01/21 - 02/21/24	11	91	CI around median	0.001	0.00500
16A	BCU	E004	Arsenic, total	mg/L	04/01/21 - 02/21/24	11	0	CI around geomean	0.00117	0.001
16A	BCU	E004	Barium, total	mg/L	04/01/21 - 02/21/24	11	0	CI around mean	0.25	0.0820
16A	BCU	E004	Beryllium, total	mg/L	04/01/21 - 02/21/24	11	100	All ND - Last	0.001	0.001
16A	BCU	E004	Boron, total	mg/L	04/01/21 - 02/21/24	11	0	CI around mean	0.674	0.430
16A	BCU	E004	Cadmium, total	mg/L	04/01/21 - 02/21/24	11	100	All ND - Last	0.0005	0.001
16A	BCU	E004	Chloride, total	mg/L	04/01/21 - 02/21/24	11	0	CI around mean	126	20.4

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 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	E004	Chromium, total	mg/L	04/01/21 - 02/21/24	11	91	CB around T-S line	0.0015	0.00400
16A	BCU	E004	Cobalt, total	mg/L	04/01/21 - 02/21/24	11	91	CI around median	0.001	0.0900
16A	BCU	E004	Fluoride, total	mg/L	04/01/21 - 02/21/24	11	9	CI around mean	0.663	0.430
16A	BCU	E004	Lead, total	mg/L	04/01/21 - 02/21/24	11	91	CI around median	0.0005	0.001
16A	BCU	E004	Lithium, total	mg/L	04/01/21 - 02/21/24	11	0	CB around linear reg	0.0289	0.0300
16A	BCU	E004	Mercury, total	mg/L	04/01/21 - 02/21/24	11	100	All ND - Last	0.0002	0.0002
16A	BCU	E004	Molybdenum, total	mg/L	04/01/21 - 02/21/24	11	100	All ND - Last	0.005	0.00400
16A	BCU	E004	pH (field)	SU	04/01/21 - 02/21/24	16	0	CI around mean	7.2/7.5	6.3/7.8
16A	BCU	E004	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 02/21/24	10	0	CI around mean	0.465	7.00
16A	BCU	E004	Selenium, total	mg/L	04/01/21 - 02/21/24	11	100	All ND - Last	0.0025	0.001
16A	BCU	E004	Sulfate, total	mg/L	04/01/21 - 02/21/24	16	5	CB around linear reg	-24	338
16A	BCU	E004	Thallium, total	mg/L	04/01/21 - 02/21/24	11	100	All ND - Last	0.002	0.002
16A	BCU	E004	Total Dissolved Solids	mg/L	04/01/21 - 02/21/24	16	0	CI around mean	646	1,080
35S	UU	E004	Antimony, total	mg/L	--	--	--	--	--	0.00500
35S	UU	E004	Arsenic, total	mg/L	--	--	--	--	--	0.001
35S	UU	E004	Barium, total	mg/L	--	--	--	--	--	0.0820
35S	UU	E004	Beryllium, total	mg/L	--	--	--	--	--	0.001
35S	UU	E004	Boron, total	mg/L	--	--	--	--	--	0.430
35S	UU	E004	Cadmium, total	mg/L	--	--	--	--	--	0.001
35S	UU	E004	Chloride, total	mg/L	--	--	--	--	--	20.4
35S	UU	E004	Chromium, total	mg/L	--	--	--	--	--	0.00400
35S	UU	E004	Cobalt, total	mg/L	--	--	--	--	--	0.0900
35S	UU	E004	Fluoride, total	mg/L	--	--	--	--	--	0.430
35S	UU	E004	Lead, total	mg/L	--	--	--	--	--	0.001
35S	UU	E004	Lithium, total	mg/L	--	--	--	--	--	0.0300
35S	UU	E004	Mercury, total	mg/L	--	--	--	--	--	0.0002
35S	UU	E004	Molybdenum, total	mg/L	--	--	--	--	--	0.00400

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 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
35S	UU	E004	pH (field)	SU	--	--	--	--	--	6.3/7.8
35S	UU	E004	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00
35S	UU	E004	Selenium, total	mg/L	--	--	--	--	--	0.001
35S	UU	E004	Sulfate, total	mg/L	--	--	--	--	--	338
35S	UU	E004	Thallium, total	mg/L	--	--	--	--	--	0.002
35S	UU	E004	Total Dissolved Solids	mg/L	--	--	--	--	--	1,080
35D	BCU	E004	Antimony, total	mg/L	04/01/21 - 02/21/24	12	75	CI around median	0.001	0.00500
35D	BCU	E004	Arsenic, total	mg/L	04/01/21 - 02/21/24	12	17	CI around geomean	0.00164	0.001
35D	BCU	E004	Barium, total	mg/L	04/01/21 - 02/21/24	12	0	CI around median	0.026	0.0820
35D	BCU	E004	Beryllium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.001	0.001
35D	BCU	E004	Boron, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	1.64	0.430
35D	BCU	E004	Cadmium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0005	0.001
35D	BCU	E004	Chloride, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	302	20.4
35D	BCU	E004	Chromium, total	mg/L	04/01/21 - 02/21/24	12	75	CI around median	0.0015	0.00400
35D	BCU	E004	Cobalt, total	mg/L	04/01/21 - 02/21/24	12	42	CI around median	0.001	0.0900
35D	BCU	E004	Fluoride, total	mg/L	04/01/21 - 02/21/24	12	8	CI around mean	0.642	0.430
35D	BCU	E004	Lead, total	mg/L	04/01/21 - 02/21/24	12	50	CI around geomean	0.000579	0.001
35D	BCU	E004	Lithium, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	0.112	0.0300
35D	BCU	E004	Mercury, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0002	0.0002
35D	BCU	E004	Molybdenum, total	mg/L	04/01/21 - 02/21/24	12	25	CB around linear reg	-0.00104	0.00400
35D	BCU	E004	pH (field)	SU	04/01/21 - 02/21/24	16	0	CI around median	7.3/7.4	6.3/7.8
35D	BCU	E004	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 02/21/24	11	0	CI around mean	0.333	7.00
35D	BCU	E004	Selenium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0025	0.001
35D	BCU	E004	Sulfate, total	mg/L	04/01/21 - 02/21/24	17	0	CI around mean	1,100	338
35D	BCU	E004	Thallium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.002	0.002
35D	BCU	E004	Total Dissolved Solids	mg/L	04/01/21 - 02/21/24	17	0	CI around mean	2,710	1,080
70S	UU	E004	Antimony, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.003	0.00500

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 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
70S	UU	E004	Arsenic, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.001	0.001
70S	UU	E004	Barium, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	0.0166	0.0820
70S	UU	E004	Beryllium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.001	0.001
70S	UU	E004	Boron, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	0.366	0.430
70S	UU	E004	Cadmium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0005	0.001
70S	UU	E004	Chloride, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	13.2	20.4
70S	UU	E004	Chromium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.005	0.00400
70S	UU	E004	Cobalt, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.001	0.0900
70S	UU	E004	Fluoride, total	mg/L	04/01/21 - 02/21/24	12	8	CI around median	0.14	0.430
70S	UU	E004	Lead, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0005	0.001
70S	UU	E004	Lithium, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	0.0112	0.0300
70S	UU	E004	Mercury, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0002	0.0002
70S	UU	E004	Molybdenum, total	mg/L	04/01/21 - 02/21/24	12	25	CI around median	0.005	0.00400
70S	UU	E004	pH (field)	SU	04/01/21 - 02/21/24	12	0	CI around mean	6.9/7.0	6.3/7.8
70S	UU	E004	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 02/21/24	11	0	CI around geomean	0.0972	7.00
70S	UU	E004	Selenium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0025	0.001
70S	UU	E004	Sulfate, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	605	338
70S	UU	E004	Thallium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.002	0.002
70S	UU	E004	Total Dissolved Solids	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	1,230	1,080
70D	BCU	E004	Antimony, total	mg/L	04/01/21 - 02/21/24	12	83	CI around median	0.001	0.00500
70D	BCU	E004	Arsenic, total	mg/L	04/01/21 - 02/21/24	12	58	CI around median	0.001	0.001
70D	BCU	E004	Barium, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	0.461	0.0820
70D	BCU	E004	Beryllium, total	mg/L	04/01/21 - 02/21/24	12	75	CI around median	0.001	0.001
70D	BCU	E004	Boron, total	mg/L	04/01/21 - 02/21/24	12	0	CI around median	1.01	0.430
70D	BCU	E004	Cadmium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0005	0.001
70D	BCU	E004	Chloride, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	525	20.4
70D	BCU	E004	Chromium, total	mg/L	04/01/21 - 02/21/24	12	33	CI around geomean	0.00292	0.00400

ATTACHMENT C.
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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
70D	BCU	E004	Cobalt, total	mg/L	04/01/21 - 02/21/24	12	8	CI around geomean	0.00161	0.0900
70D	BCU	E004	Fluoride, total	mg/L	04/01/21 - 02/21/24	12	8	CB around linear reg	0.234	0.430
70D	BCU	E004	Lead, total	mg/L	04/01/21 - 02/21/24	12	17	CI around geomean	0.00137	0.001
70D	BCU	E004	Lithium, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	0.0761	0.0300
70D	BCU	E004	Mercury, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.0002	0.0002
70D	BCU	E004	Molybdenum, total	mg/L	04/01/21 - 02/21/24	12	33	CB around linear reg	-0.0201	0.00400
70D	BCU	E004	pH (field)	SU	04/01/21 - 02/21/24	12	0	CI around mean	6.9/7.2	6.3/7.8
70D	BCU	E004	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 02/21/24	11	0	CI around mean	0.993	7.00
70D	BCU	E004	Selenium, total	mg/L	04/01/21 - 02/21/24	12	83	CI around median	0.001	0.001
70D	BCU	E004	Sulfate, total	mg/L	04/01/21 - 02/21/24	12	0	CI around mean	46.5	338
70D	BCU	E004	Thallium, total	mg/L	04/01/21 - 02/21/24	12	100	All ND - Last	0.002	0.002
70D	BCU	E004	Total Dissolved Solids	mg/L	04/01/21 - 02/21/24	12	0	CB around linear reg	1,270	1,080
71S	UU	E004	Antimony, total	mg/L	--	--	--	--	--	0.00500
71S	UU	E004	Arsenic, total	mg/L	--	--	--	--	--	0.001
71S	UU	E004	Barium, total	mg/L	--	--	--	--	--	0.0820
71S	UU	E004	Beryllium, total	mg/L	--	--	--	--	--	0.001
71S	UU	E004	Boron, total	mg/L	--	--	--	--	--	0.430
71S	UU	E004	Cadmium, total	mg/L	--	--	--	--	--	0.001
71S	UU	E004	Chloride, total	mg/L	--	--	--	--	--	20.4
71S	UU	E004	Chromium, total	mg/L	--	--	--	--	--	0.00400
71S	UU	E004	Cobalt, total	mg/L	--	--	--	--	--	0.0900
71S	UU	E004	Fluoride, total	mg/L	--	--	--	--	--	0.430
71S	UU	E004	Lead, total	mg/L	--	--	--	--	--	0.001
71S	UU	E004	Lithium, total	mg/L	--	--	--	--	--	0.0300
71S	UU	E004	Mercury, total	mg/L	--	--	--	--	--	0.0002
71S	UU	E004	Molybdenum, total	mg/L	--	--	--	--	--	0.00400
71S	UU	E004	pH (field)	SU	--	--	--	--	--	6.3/7.8

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 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
71S	UU	E004	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00
71S	UU	E004	Selenium, total	mg/L	--	--	--	--	--	0.001
71S	UU	E004	Sulfate, total	mg/L	--	--	--	--	--	338
71S	UU	E004	Thallium, total	mg/L	--	--	--	--	--	0.002
71S	UU	E004	Total Dissolved Solids	mg/L	--	--	--	--	--	1,080
71D	BCU	E004	Antimony, total	mg/L	--	--	--	--	--	0.00500
71D	BCU	E004	Arsenic, total	mg/L	--	--	--	--	--	0.001
71D	BCU	E004	Barium, total	mg/L	--	--	--	--	--	0.0820
71D	BCU	E004	Beryllium, total	mg/L	--	--	--	--	--	0.001
71D	BCU	E004	Boron, total	mg/L	--	--	--	--	--	0.430
71D	BCU	E004	Cadmium, total	mg/L	--	--	--	--	--	0.001
71D	BCU	E004	Chloride, total	mg/L	--	--	--	--	--	20.4
71D	BCU	E004	Chromium, total	mg/L	--	--	--	--	--	0.00400
71D	BCU	E004	Cobalt, total	mg/L	--	--	--	--	--	0.0900
71D	BCU	E004	Fluoride, total	mg/L	--	--	--	--	--	0.430
71D	BCU	E004	Lead, total	mg/L	--	--	--	--	--	0.001
71D	BCU	E004	Lithium, total	mg/L	--	--	--	--	--	0.0300
71D	BCU	E004	Mercury, total	mg/L	--	--	--	--	--	0.0002
71D	BCU	E004	Molybdenum, total	mg/L	--	--	--	--	--	0.00400
71D	BCU	E004	pH (field)	SU	--	--	--	--	--	6.3/7.8
71D	BCU	E004	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	7.00
71D	BCU	E004	Selenium, total	mg/L	--	--	--	--	--	0.001
71D	BCU	E004	Sulfate, total	mg/L	--	--	--	--	--	338
71D	BCU	E004	Thallium, total	mg/L	--	--	--	--	--	0.002
71D	BCU	E004	Total Dissolved Solids	mg/L	--	--	--	--	--	1,080

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

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