Luminant

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

February 2, 2025

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 4, 2024 sampling event at the Vermilion Power Plant New East Ash Pond (NEAP), identified by Illinois Environmental Protection Agency (IEPA) ID No. W1838000002-04. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were evaluated for compliance with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances[1] of the GWPS.

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

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

Sincerely,

Dianna Tickner

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

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 4, 2024, New East Ash Pond, Vermilion Power Plant, Oakwood, Illinois

[1] Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program, which was submitted to the IEPA on October 25, 2021 as part of Dynegy Midwest Generation, LLC's operating permit application for Vermilion Power Plant New East Ash Pond. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and therefore Dynegy Midwest Generation, LLC has not identified any actual exceedances.

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35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES[1]
QUARTER 4, 2024
NEW EAST ASH POND, VERMILION POWER PLANT, OAKWOOD, ILLINOIS

February 2, 2025

Samples were collected from October 21 to 24, 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 December 4, 2024.

The monitoring well locations are included in **Figure 1**. **Attachment A** summarizes the groundwater elevation data for the Quarter 4, 2024 sampling event. Compliance monitoring wells 16B and 35S were dry; therefore, groundwater elevation data and groundwater samples were not collected. **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 4, 2024 sampling event.

In accordance with 35 I.A.C. § 845.610(b)(3)(C) and the statistical analysis plan submitted with the operating permit application (Appendix A of the Groundwater Monitoring Plan[2], constituent concentrations observed at compliance monitoring wells in Quarter 4, 2024 were evaluated for compliance with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS (**Table 2**). **Attachment C** shows the results of the comparison to background levels.

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 Demonstration[3] (ASD) was submitted on December 1, 2023 for the exceedances of the chloride and lithium GWPSs detected at compliance monitoring wells 35D and 70D and the sulfate and total dissolved solids (TDS) GWPSs detected at compliance monitoring well 35D during the Quarter 2, 2023 sampling event. The Illinois Environmental Protection Agency (IEPA) provided a written response on December 28, 2023[4] that did not concur with the ASD. The non-concurrence was appealed, and on April 18, 2024[5], the Illinois Pollution Control Board granted the company's requests to stay the applicability of 35 I.A.C. §§ 845.650(d), 845.660, 845.670, and 845.680 as

[1] Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program, which was submitted to the IEPA on October 25, 2021 as part of Dynegy Midwest Generation, LLC's operating permit application for Vermilion Power Plant New East Ash Pond. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and therefore Dynegy Midwest Generation, LLC has not identified any actual exceedances.

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

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

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

[5] Illinois Pollution Control Board (IPCB), 2024. *PCB 24-53 (Petition for review – Alternative Source Demonstration).* April 18, 2024.

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

A second ASD[6] was submitted on May 8, 2024 for the exceedance of the chloride GWPS at compliance monitoring well 71D during the Quarter 4, 2023 sampling event. The IEPA provided a written response on June 5, 2024[7] that did not concur with the ASD. The non-concurrence was not appealed.

A third ASD[8] was submitted on July 24, 2024 for the exceedance of the TDS GWPS at compliance monitoring well 70D during the Quarter 1, 2024 sampling event. The IEPA provided a written response on August 22, 2024[9] that did not concur with the ASD. The non-concurrence was appealed, and on November 7, 2024[10], the Illinois Pollution Control Board granted the company's requests to stay the applicability of 35 I.A.C. §§ 845.650(d), 845.660, 845.670, and 845.680 as they apply to the exceedance of the TDS GWPS detected at compliance monitoring well 70D.

A fourth ASD[11] was submitted on December 20, 2024 for the exceedance of the lithium GWPS at compliance monitoring well 71D during the Quarter 3, 2024 sampling event. A response from the IEPA is pending.

Exceedances of the chloride, lithium, sulfate, and TDS GWPSs were detected during the Quarter 4, 2024 sampling event in the same monitoring wells identified in the December 1, 2023 ASD, the May 8, 2024 ASD, and the July 24, 2024 ASD.

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

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

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

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

[10] Illinois Pollution Control Board (IPCB), 2024. *PCB 25-15 (Petition for review – Alternative Source Demonstration).* November 7, 2024.

[11] Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2024. 35 I.A.C. § 845.650(E): *Alternative Source Demonstration, New East Ash Pond, Vermilion Power Plant, Oakwood, IL, IEPA ID: W1838000002-04.* December 20, 2024.

TABLES

Table 1 Field Parameters and Analytical Results - Quarter 4, 2024
Table 2 Evaluation of Compliance - Quarter 4, 2024

FIGURES

Figure 1 Monitoring Well Location Map

ATTACHMENTS

Attachment A Groundwater Elevation Data - Quarter 4, 2024
Attachment B Laboratory Reports and Field Data Sheets - Quarter 4, 2024
Attachment C Comparison to Background - Quarter 4, 2024

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
10	Background	E007	10/21/2024	Antimony, total	0.0013 U	mg/L
10	Background	E007	10/21/2024	Arsenic, total	0.00072 J	mg/L
10	Background	E007	10/21/2024	Barium, total	0.0990	mg/L
10	Background	E007	10/21/2024	Beryllium, total	0.00053 U	mg/L
10	Background	E007	10/21/2024	Boron, total	0.05 UJ	mg/L
10	Background	E007	10/21/2024	Cadmium, total	0.00017 U	mg/L
10	Background	E007	10/21/2024	Calcium, total	190	mg/L
10	Background	E007	10/21/2024	Chloride, total	6.80	mg/L
10	Background	E007	10/21/2024	Chromium, total	0.0016 J	mg/L
10	Background	E007	10/21/2024	Cobalt, total	0.0110	mg/L
10	Background	E007	10/21/2024	Dissolved Oxygen	1.70	mg/L
10	Background	E007	10/21/2024	Fluoride, total	0.130	mg/L
10	Background	E007	10/21/2024	Lead, total	0.00019 U	mg/L
10	Background	E007	10/21/2024	Lithium, total	0.0160	mg/L
10	Background	E007	10/21/2024	Mercury, total	0.000076 U	mg/L
10	Background	E007	10/21/2024	Molybdenum, total	0.0025 U	mg/L
10	Background	E007	10/21/2024	Oxidation Reduction Potential	84.2	mV
10	Background	E007	10/21/2024	pH (field)	6.9	SU
10	Background	E007	10/21/2024	Radium 226 + Radium 228, total	0.482	pCi/L
10	Background	E007	10/21/2024	Selenium, total	0.00098 U	mg/L
10	Background	E007	10/21/2024	Specific Conductance @ 25C (field)	1,097	micromhos/cm
10	Background	E007	10/21/2024	Sulfate, total	230	mg/L
10	Background	E007	10/21/2024	Temperature	16.0	degrees C
10	Background	E007	10/21/2024	Thallium, total	0.00057 U	mg/L
10	Background	E007	10/21/2024	Total Dissolved Solids	930	mg/L
10	Background	E007	10/21/2024	Turbidity, field	45.5	NTU
22	Background	E007	10/24/2024	Antimony, total	0.0013 U	mg/L
22	Background	E007	10/24/2024	Arsenic, total	0.00023 U	mg/L
22	Background	E007	10/24/2024	Barium, total	0.0850	mg/L
22	Background	E007	10/24/2024	Beryllium, total	0.00053 U	mg/L
22	Background	E007	10/24/2024	Boron, total	0.410	mg/L
22	Background	E007	10/24/2024	Cadmium, total	0.00017 U	mg/L
22	Background	E007	10/24/2024	Calcium, total	47.0	mg/L
22	Background	E007	10/24/2024	Chloride, total	6.30	mg/L
22	Background	E007	10/24/2024	Chromium, total	0.0011 U	mg/L
22	Background	E007	10/24/2024	Cobalt, total	0.0004 U	mg/L
22	Background	E007	10/24/2024	Dissolved Oxygen	0.590	mg/L
22	Background	E007	10/24/2024	Fluoride, total	0.350	mg/L
22	Background	E007	10/24/2024	Lead, total	0.00019 U	mg/L
22	Background	E007	10/24/2024	Lithium, total	0.0310	mg/L
22	Background	E007	10/24/2024	Mercury, total	0.000076 U	mg/L
22	Background	E007	10/24/2024	Molybdenum, total	0.0025 U	mg/L
22	Background	E007	10/24/2024	Oxidation Reduction Potential	58.6	mV
22	Background	E007	10/24/2024	pH (field)	7.5	SU
22	Background	E007	10/24/2024	Radium 226 + Radium 228, total	1.1	pCi/L
22	Background	E007	10/24/2024	Selenium, total	0.00098 U	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
22	Background	E007	10/24/2024	Specific Conductance @ 25C (field)	710	micromhos/cm
22	Background	E007	10/24/2024	Sulfate, total	27.0	mg/L
22	Background	E007	10/24/2024	Temperature	12.7	degrees C
22	Background	E007	10/24/2024	Thallium, total	0.00057 U	mg/L
22	Background	E007	10/24/2024	Total Dissolved Solids	510	mg/L
22	Background	E007	10/24/2024	Turbidity, field	0.0200	NTU
16B	Compliance	E007	--	Antimony, total	NS[7]	mg/L
16B	Compliance	E007	--	Arsenic, total	NS[7]	mg/L
16B	Compliance	E007	--	Barium, total	NS[7]	mg/L
16B	Compliance	E007	--	Beryllium, total	NS[7]	mg/L
16B	Compliance	E007	--	Boron, total	NS[7]	mg/L
16B	Compliance	E007	--	Cadmium, total	NS[7]	mg/L
16B	Compliance	E007	--	Calcium, total	NS[7]	mg/L
16B	Compliance	E007	--	Chloride, total	NS[7]	mg/L
16B	Compliance	E007	--	Chromium, total	NS[7]	mg/L
16B	Compliance	E007	--	Cobalt, total	NS[7]	mg/L
16B	Compliance	E007	--	Dissolved Oxygen	NS[7]	mg/L
16B	Compliance	E007	--	Fluoride, total	NS[7]	mg/L
16B	Compliance	E007	--	Lead, total	NS[7]	mg/L
16B	Compliance	E007	--	Lithium, total	NS[7]	mg/L
16B	Compliance	E007	--	Mercury, total	NS[7]	mg/L
16B	Compliance	E007	--	Molybdenum, total	NS[7]	mg/L
16B	Compliance	E007	--	Oxidation Reduction Potential	NS[7]	mV
16B	Compliance	E007	--	pH (field)	NS[7]	SU
16B	Compliance	E007	--	Radium 226 + Radium 228, total	NS[7]	pCi/L
16B	Compliance	E007	--	Selenium, total	NS[7]	mg/L
16B	Compliance	E007	--	Specific Conductance @ 25C (field)	NS[7]	micromhos/cm
16B	Compliance	E007	--	Sulfate, total	NS[7]	mg/L
16B	Compliance	E007	--	Temperature	NS[7]	degrees C
16B	Compliance	E007	--	Thallium, total	NS[7]	mg/L
16B	Compliance	E007	--	Total Dissolved Solids	NS[7]	mg/L
16B	Compliance	E007	--	Turbidity, field	NS[7]	NTU
16A	Compliance	E007	10/22/2024	Antimony, total	0.0013 U	mg/L
16A	Compliance	E007	10/22/2024	Arsenic, total	0.00110	mg/L
16A	Compliance	E007	10/22/2024	Barium, total	0.310	mg/L
16A	Compliance	E007	10/22/2024	Beryllium, total	0.00053 U	mg/L
16A	Compliance	E007	10/22/2024	Boron, total	0.810	mg/L
16A	Compliance	E007	10/22/2024	Cadmium, total	0.00017 U	mg/L
16A	Compliance	E007	10/22/2024	Calcium, total	36.0	mg/L
16A	Compliance	E007	10/22/2024	Chloride, total	150	mg/L
16A	Compliance	E007	10/22/2024	Chromium, total	0.0011 U	mg/L
16A	Compliance	E007	10/22/2024	Cobalt, total	0.0004 U	mg/L
16A	Compliance	E007	10/22/2024	Dissolved Oxygen	0.370	mg/L
16A	Compliance	E007	10/22/2024	Fluoride, total	0.800	mg/L
16A	Compliance	E007	10/22/2024	Lead, total	0.00044 J	mg/L
16A	Compliance	E007	10/22/2024	Lithium, total	0.0310	mg/L

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16A	Compliance	E007	10/22/2024	Mercury, total	0.000076 U	mg/L
16A	Compliance	E007	10/22/2024	Molybdenum, total	0.0025 U	mg/L
16A	Compliance	E007	10/22/2024	Oxidation Reduction Potential	-149	mV
16A	Compliance	E007	10/22/2024	pH (field)	7.6	SU
16A	Compliance	E007	10/22/2024	Radium 226 + Radium 228, total	1.68	pCi/L
16A	Compliance	E007	10/22/2024	Selenium, total	0.00098 U	mg/L
16A	Compliance	E007	10/22/2024	Specific Conductance @ 25C (field)	1,087	micromhos/cm
16A	Compliance	E007	10/22/2024	Sulfate, total	3.10	mg/L
16A	Compliance	E007	10/22/2024	Temperature	12.6	degrees C
16A	Compliance	E007	10/22/2024	Thallium, total	0.00057 U	mg/L
16A	Compliance	E007	10/22/2024	Total Dissolved Solids	690	mg/L
16A	Compliance	E007	10/22/2024	Turbidity, field	94.3	NTU
35S	Compliance	E007	--	Antimony, total	NS[7]	mg/L
35S	Compliance	E007	--	Arsenic, total	NS[7]	mg/L
35S	Compliance	E007	--	Barium, total	NS[7]	mg/L
35S	Compliance	E007	--	Beryllium, total	NS[7]	mg/L
35S	Compliance	E007	--	Boron, total	NS[7]	mg/L
35S	Compliance	E007	--	Cadmium, total	NS[7]	mg/L
35S	Compliance	E007	--	Calcium, total	NS[7]	mg/L
35S	Compliance	E007	--	Chloride, total	NS[7]	mg/L
35S	Compliance	E007	--	Chromium, total	NS[7]	mg/L
35S	Compliance	E007	--	Cobalt, total	NS[7]	mg/L
35S	Compliance	E007	--	Dissolved Oxygen	NS[7]	mg/L
35S	Compliance	E007	--	Fluoride, total	NS[7]	mg/L
35S	Compliance	E007	--	Lead, total	NS[7]	mg/L
35S	Compliance	E007	--	Lithium, total	NS[7]	mg/L
35S	Compliance	E007	--	Mercury, total	NS[7]	mg/L
35S	Compliance	E007	--	Molybdenum, total	NS[7]	mg/L
35S	Compliance	E007	--	Oxidation Reduction Potential	NS[7]	mV
35S	Compliance	E007	--	pH (field)	NS[7]	SU
35S	Compliance	E007	--	Radium 226 + Radium 228, total	NS[7]	pCi/L
35S	Compliance	E007	--	Selenium, total	NS[7]	mg/L
35S	Compliance	E007	--	Specific Conductance @ 25C (field)	NS[7]	micromhos/cm
35S	Compliance	E007	--	Sulfate, total	NS[7]	mg/L
35S	Compliance	E007	--	Temperature	NS[7]	degrees C
35S	Compliance	E007	--	Thallium, total	NS[7]	mg/L
35S	Compliance	E007	--	Total Dissolved Solids	NS[7]	mg/L
35S	Compliance	E007	--	Turbidity, field	NS[7]	NTU
35D	Compliance	E007	10/22/2024	Antimony, total	0.0013 U	mg/L
35D	Compliance	E007	10/22/2024	Arsenic, total	0.0031 J	mg/L
35D	Compliance	E007	10/22/2024	Barium, total	0.0250	mg/L
35D	Compliance	E007	10/22/2024	Beryllium, total	0.00053 U	mg/L
35D	Compliance	E007	10/22/2024	Boron, total	1.90	mg/L
35D	Compliance	E007	10/22/2024	Cadmium, total	0.00017 U	mg/L
35D	Compliance	E007	10/22/2024	Calcium, total	100	mg/L
35D	Compliance	E007	10/22/2024	Chloride, total	370	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
35D	Compliance	E007	10/22/2024	Chromium, total	0.0011 U	mg/L
35D	Compliance	E007	10/22/2024	Cobalt, total	0.0004 U	mg/L
35D	Compliance	E007	10/22/2024	Dissolved Oxygen	0.610	mg/L
35D	Compliance	E007	10/22/2024	Fluoride, total	0.660	mg/L
35D	Compliance	E007	10/22/2024	Lead, total	0.00019 U	mg/L
35D	Compliance	E007	10/22/2024	Lithium, total	0.120	mg/L
35D	Compliance	E007	10/22/2024	Mercury, total	0.000076 U	mg/L
35D	Compliance	E007	10/22/2024	Molybdenum, total	0.0026 J	mg/L
35D	Compliance	E007	10/22/2024	Oxidation Reduction Potential	153	mV
35D	Compliance	E007	10/22/2024	pH (field)	7.4	SU
35D	Compliance	E007	10/22/2024	Radium 226 + Radium 228, total	0.767	pCi/L
35D	Compliance	E007	10/22/2024	Selenium, total	0.0049 U	mg/L
35D	Compliance	E007	10/22/2024	Specific Conductance @ 25C (field)	4,229	micromhos/cm
35D	Compliance	E007	10/22/2024	Sulfate, total	1,300	mg/L
35D	Compliance	E007	10/22/2024	Temperature	14.6	degrees C
35D	Compliance	E007	10/22/2024	Thallium, total	0.00057 U	mg/L
35D	Compliance	E007	10/22/2024	Total Dissolved Solids	3,300	mg/L
35D	Compliance	E007	10/22/2024	Turbidity, field	118	NTU
70S	Compliance	E007	10/22/2024	Antimony, total	0.0013 U	mg/L
70S	Compliance	E007	10/22/2024	Arsenic, total	0.00024 J	mg/L
70S	Compliance	E007	10/22/2024	Barium, total	0.0170	mg/L
70S	Compliance	E007	10/22/2024	Beryllium, total	0.00053 U	mg/L
70S	Compliance	E007	10/22/2024	Boron, total	0.600	mg/L
70S	Compliance	E007	10/22/2024	Cadmium, total	0.00017 U	mg/L
70S	Compliance	E007	10/22/2024	Calcium, total	220	mg/L
70S	Compliance	E007	10/22/2024	Chloride, total	13.0	mg/L
70S	Compliance	E007	10/22/2024	Chromium, total	0.0011 U	mg/L
70S	Compliance	E007	10/22/2024	Cobalt, total	0.0004 U	mg/L
70S	Compliance	E007	10/22/2024	Dissolved Oxygen	0.460	mg/L
70S	Compliance	E007	10/22/2024	Fluoride, total	0.140	mg/L
70S	Compliance	E007	10/22/2024	Lead, total	0.00019 U	mg/L
70S	Compliance	E007	10/22/2024	Lithium, total	0.0180	mg/L
70S	Compliance	E007	10/22/2024	Mercury, total	0.000076 U	mg/L
70S	Compliance	E007	10/22/2024	Molybdenum, total	0.0035 J	mg/L
70S	Compliance	E007	10/22/2024	Oxidation Reduction Potential	45.1	mV
70S	Compliance	E007	10/22/2024	pH (field)	7.1	SU
70S	Compliance	E007	10/22/2024	Radium 226 + Radium 228, total	0.225	pCi/L
70S	Compliance	E007	10/22/2024	Selenium, total	0.00098 U	mg/L
70S	Compliance	E007	10/22/2024	Specific Conductance @ 25C (field)	1,269	micromhos/cm
70S	Compliance	E007	10/22/2024	Sulfate, total	510	mg/L
70S	Compliance	E007	10/22/2024	Temperature	13.9	degrees C
70S	Compliance	E007	10/22/2024	Thallium, total	0.00057 U	mg/L
70S	Compliance	E007	10/22/2024	Total Dissolved Solids	1,200	mg/L
70S	Compliance	E007	10/22/2024	Turbidity, field	26.2	NTU
70D	Compliance	E007	10/22/2024	Antimony, total	0.0013 U	mg/L
70D	Compliance	E007	10/22/2024	Arsenic, total	0.0012 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
70D	Compliance	E007	10/22/2024	Barium, total	0.450	mg/L
70D	Compliance	E007	10/22/2024	Beryllium, total	0.00053 U	mg/L
70D	Compliance	E007	10/22/2024	Boron, total	1.40	mg/L
70D	Compliance	E007	10/22/2024	Cadmium, total	0.00017 U	mg/L
70D	Compliance	E007	10/22/2024	Calcium, total	93.0	mg/L
70D	Compliance	E007	10/22/2024	Chloride, total	610	mg/L
70D	Compliance	E007	10/22/2024	Chromium, total	0.0011 U	mg/L
70D	Compliance	E007	10/22/2024	Cobalt, total	0.00059 J	mg/L
70D	Compliance	E007	10/22/2024	Dissolved Oxygen	1.39	mg/L
70D	Compliance	E007	10/22/2024	Fluoride, total	0.460	mg/L
70D	Compliance	E007	10/22/2024	Lead, total	0.00021 J	mg/L
70D	Compliance	E007	10/22/2024	Lithium, total	0.0840	mg/L
70D	Compliance	E007	10/22/2024	Mercury, total	0.000076 U	mg/L
70D	Compliance	E007	10/22/2024	Molybdenum, total	0.0026 J	mg/L
70D	Compliance	E007	10/22/2024	Oxidation Reduction Potential	49.1	mV
70D	Compliance	E007	10/22/2024	pH (field)	7.0	SU
70D	Compliance	E007	10/22/2024	Radium 226 + Radium 228, total	1.53	pCi/L
70D	Compliance	E007	10/22/2024	Selenium, total	0.0049 U	mg/L
70D	Compliance	E007	10/22/2024	Specific Conductance @ 25C (field)	2,777	micromhos/cm
70D	Compliance	E007	10/22/2024	Sulfate, total	26.0	mg/L
70D	Compliance	E007	10/22/2024	Temperature	13.7	degrees C
70D	Compliance	E007	10/22/2024	Thallium, total	0.00057 U	mg/L
70D	Compliance	E007	10/22/2024	Total Dissolved Solids	1,600	mg/L
70D	Compliance	E007	10/22/2024	Turbidity, field	90.6	NTU
71S	Compliance	E007	--	Antimony, total	NS[7]	mg/L
71S	Compliance	E007	--	Arsenic, total	NS[7]	mg/L
71S	Compliance	E007	--	Barium, total	NS[7]	mg/L
71S	Compliance	E007	--	Beryllium, total	NS[7]	mg/L
71S	Compliance	E007	--	Boron, total	NS[7]	mg/L
71S	Compliance	E007	--	Cadmium, total	NS[7]	mg/L
71S	Compliance	E007	--	Calcium, total	NS[7]	mg/L
71S	Compliance	E007	--	Chloride, total	NS[7]	mg/L
71S	Compliance	E007	--	Chromium, total	NS[7]	mg/L
71S	Compliance	E007	--	Cobalt, total	NS[7]	mg/L
71S	Compliance	E007	--	Dissolved Oxygen	NS[7]	mg/L
71S	Compliance	E007	--	Fluoride, total	NS[7]	mg/L
71S	Compliance	E007	--	Lead, total	NS[7]	mg/L
71S	Compliance	E007	--	Lithium, total	NS[7]	mg/L
71S	Compliance	E007	--	Mercury, total	NS[7]	mg/L
71S	Compliance	E007	--	Molybdenum, total	NS[7]	mg/L
71S	Compliance	E007	--	Oxidation Reduction Potential	NS[7]	mV
71S	Compliance	E007	--	pH (field)	NS[7]	SU
71S	Compliance	E007	--	Radium 226 + Radium 228, total	NS[7]	pCi/L
71S	Compliance	E007	--	Selenium, total	NS[7]	mg/L
71S	Compliance	E007	--	Specific Conductance @ 25C (field)	NS[7]	micromhos/cm
71S	Compliance	E007	--	Sulfate, total	NS[7]	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
71S	Compliance	E007	--	Temperature	NS[7]	degrees C
71S	Compliance	E007	--	Thallium, total	NS[7]	mg/L
71S	Compliance	E007	--	Total Dissolved Solids	NS[7]	mg/L
71S	Compliance	E007	--	Turbidity, field	NS[7]	NTU
71D	Compliance	E007	--	Antimony, total	NS[7]	mg/L
71D	Compliance	E007	--	Arsenic, total	NS[7]	mg/L
71D	Compliance	E007	--	Barium, total	NS[7]	mg/L
71D	Compliance	E007	--	Beryllium, total	NS[7]	mg/L
71D	Compliance	E007	--	Boron, total	NS[7]	mg/L
71D	Compliance	E007	--	Cadmium, total	NS[7]	mg/L
71D	Compliance	E007	--	Calcium, total	NS[7]	mg/L
71D	Compliance	E007	--	Chloride, total	NS[7]	mg/L
71D	Compliance	E007	--	Chromium, total	NS[7]	mg/L
71D	Compliance	E007	--	Cobalt, total	NS[7]	mg/L
71D	Compliance	E007	--	Dissolved Oxygen	NS[7]	mg/L
71D	Compliance	E007	--	Fluoride, total	NS[7]	mg/L
71D	Compliance	E007	--	Lead, total	NS[7]	mg/L
71D	Compliance	E007	--	Lithium, total	NS[7]	mg/L
71D	Compliance	E007	--	Mercury, total	NS[7]	mg/L
71D	Compliance	E007	--	Molybdenum, total	NS[7]	mg/L
71D	Compliance	E007	--	Oxidation Reduction Potential	NS[7]	mV
71D	Compliance	E007	--	pH (field)	NS[7]	SU
71D	Compliance	E007	--	Radium 226 + Radium 228, total	NS[7]	pCi/L
71D	Compliance	E007	--	Selenium, total	NS[7]	mg/L
71D	Compliance	E007	--	Specific Conductance @ 25C (field)	NS[7]	micromhos/cm
71D	Compliance	E007	--	Sulfate, total	NS[7]	mg/L
71D	Compliance	E007	--	Temperature	NS[7]	degrees C
71D	Compliance	E007	--	Thallium, total	NS[7]	mg/L
71D	Compliance	E007	--	Total Dissolved Solids	NS[7]	mg/L
71D	Compliance	E007	--	Turbidity, field	NS[7]	NTU

Notes:
C = Celsius
cm = centimeter
Events:
E007 = Quarter 4, 2024 sampling event
mg/L = milligrams per liter
mV = millivolts
NTU = Nephelometric Turbidity Units
pCi/L = picocuries per liter
Result Code (if applicable):
NR[1] = Parameter not analyzed.
NS[1] = Well has been, or will be, abandoned; therefore, a sample was not collected.
NS[2] = Well either needs or was undergoing maintenance; therefore, a sample was not collected.
NS[3] = The location was not accessible; therefore, a sample was not collected.
NS[4] = The location could not be found; therefore, a sample was not collected.
NS[5] = The location was damaged; therefore, a sample was not collected.
NS[6] = Sampling pump could not yield a sample.
NS[7] = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.
NS[8] = A sample was not collected.
PM[1] = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.
Result qualifiers as defined in the United States Environmental Protection Agency's *National Functional Guidelines for Inorganic Superfund Methods Data Review*, EPA 542-R-20-006. November 2020.:
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
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.
SU = Standard Units

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 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	E007	Antimony, total	mg/L	--	--	--	--	NS[7]	0.006	Standard	--
16B	UU	E007	Arsenic, total	mg/L	--	--	--	--	NS[7]	0.010	Standard	--
16B	UU	E007	Barium, total	mg/L	--	--	--	--	NS[7]	2.0	Standard	--
16B	UU	E007	Beryllium, total	mg/L	--	--	--	--	NS[7]	0.004	Standard	--
16B	UU	E007	Boron, total	mg/L	--	--	--	--	NS[7]	2	Standard	--
16B	UU	E007	Cadmium, total	mg/L	--	--	--	--	NS[7]	0.005	Standard	--
16B	UU	E007	Chloride, total	mg/L	--	--	--	--	NS[7]	200	Standard	--
16B	UU	E007	Chromium, total	mg/L	--	--	--	--	NS[7]	0.1	Standard	--
16B	UU	E007	Cobalt, total	mg/L	--	--	--	--	NS[7]	0.0900	Background	--
16B	UU	E007	Fluoride, total	mg/L	--	--	--	--	NS[7]	4.0	Standard	--
16B	UU	E007	Lead, total	mg/L	--	--	--	--	NS[7]	0.0075	Standard	--
16B	UU	E007	Lithium, total	mg/L	--	--	--	--	NS[7]	0.04	Standard	--
16B	UU	E007	Mercury, total	mg/L	--	--	--	--	NS[7]	0.002	Standard	--
16B	UU	E007	Molybdenum, total	mg/L	--	--	--	--	NS[7]	0.1	Standard	--
16B	UU	E007	pH (field)	SU	--	--	--	--	NS[7]	6.3/9.0	Background/Standard	--
16B	UU	E007	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS[7]	7.00	Background	--
16B	UU	E007	Selenium, total	mg/L	--	--	--	--	NS[7]	0.05	Standard	--
16B	UU	E007	Sulfate, total	mg/L	--	--	--	--	NS[7]	400	Standard	--
16B	UU	E007	Thallium, total	mg/L	--	--	--	--	NS[7]	0.002	Standard	--
16B	UU	E007	Total Dissolved Solids	mg/L	--	--	--	--	NS[7]	1,200	Standard	--
16A	BCU	E007	Antimony, total	mg/L	04/01/21 - 10/22/24	14	93	CB around T-S line	0.001	0.006	Standard	No Exceedance
16A	BCU	E007	Arsenic, total	mg/L	04/01/21 - 10/22/24	14	0	CI around geomean	0.00125	0.010	Standard	No Exceedance
16A	BCU	E007	Barium, total	mg/L	04/01/21 - 10/22/24	14	0	CI around mean	0.262	2.0	Standard	No Exceedance
16A	BCU	E007	Beryllium, total	mg/L	04/01/21 - 10/22/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
16A	BCU	E007	Boron, total	mg/L	04/01/21 - 10/22/24	14	0	CI around mean	0.697	2	Standard	No Exceedance
16A	BCU	E007	Cadmium, total	mg/L	04/01/21 - 10/22/24	14	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
16A	BCU	E007	Chloride, total	mg/L	04/01/21 - 10/22/24	14	0	CI around mean	126	200	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 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
16A	BCU	E007	Chromium, total	mg/L	04/01/21 - 10/22/24	14	79	CB around T-S line	0.0015	0.1	Standard	No Exceedance
16A	BCU	E007	Cobalt, total	mg/L	04/01/21 - 10/22/24	14	79	CI around median	0.001	0.0900	Background	No Exceedance
16A	BCU	E007	Fluoride, total	mg/L	04/01/21 - 10/22/24	14	7	CI around mean	0.691	4.0	Standard	No Exceedance
16A	BCU	E007	Lead, total	mg/L	04/01/21 - 10/22/24	14	79	CI around median	0.0005	0.0075	Standard	No Exceedance
16A	BCU	E007	Lithium, total	mg/L	04/01/21 - 10/22/24	14	0	CB around T-S line	0.0312	0.04	Standard	No Exceedance
16A	BCU	E007	Mercury, total	mg/L	04/01/21 - 10/22/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
16A	BCU	E007	Molybdenum, total	mg/L	04/01/21 - 10/22/24	14	100	All ND - Last	0.005	0.1	Standard	No Exceedance
16A	BCU	E007	pH (field)	SU	04/01/21 - 10/22/24	19	0	CI around mean	7.2/7.5	6.3/9.0	Background/Standard	No Exceedance
16A	BCU	E007	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 10/22/24	13	0	CB around linear reg	0.846	7.00	Background	No Exceedance
16A	BCU	E007	Selenium, total	mg/L	04/01/21 - 10/22/24	14	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
16A	BCU	E007	Sulfate, total	mg/L	04/01/21 - 10/22/24	19	5	CB around T-S line	-35.9	400	Standard	No Exceedance
16A	BCU	E007	Thallium, total	mg/L	04/01/21 - 10/22/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
16A	BCU	E007	Total Dissolved Solids	mg/L	04/01/21 - 10/22/24	19	0	CI around mean	650	1,200	Standard	No Exceedance
35S	UU	E007	Antimony, total	mg/L	--	--	--	--	NS[7]	0.006	Standard	--
35S	UU	E007	Arsenic, total	mg/L	--	--	--	--	NS[7]	0.010	Standard	--
35S	UU	E007	Barium, total	mg/L	--	--	--	--	NS[7]	2.0	Standard	--
35S	UU	E007	Beryllium, total	mg/L	--	--	--	--	NS[7]	0.004	Standard	--
35S	UU	E007	Boron, total	mg/L	--	--	--	--	NS[7]	2	Standard	--
35S	UU	E007	Cadmium, total	mg/L	--	--	--	--	NS[7]	0.005	Standard	--
35S	UU	E007	Chloride, total	mg/L	--	--	--	--	NS[7]	200	Standard	--
35S	UU	E007	Chromium, total	mg/L	--	--	--	--	NS[7]	0.1	Standard	--
35S	UU	E007	Cobalt, total	mg/L	--	--	--	--	NS[7]	0.0900	Background	--
35S	UU	E007	Fluoride, total	mg/L	--	--	--	--	NS[7]	4.0	Standard	--
35S	UU	E007	Lead, total	mg/L	--	--	--	--	NS[7]	0.0075	Standard	--
35S	UU	E007	Lithium, total	mg/L	--	--	--	--	NS[7]	0.04	Standard	--
35S	UU	E007	Mercury, total	mg/L	--	--	--	--	NS[7]	0.002	Standard	--
35S	UU	E007	Molybdenum, total	mg/L	--	--	--	--	NS[7]	0.1	Standard	--

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 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	E007	pH (field)	SU	--	--	--	--	NS[7]	6.3/9.0	Background/Standard	--
35S	UU	E007	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS[7]	7.00	Background	--
35S	UU	E007	Selenium, total	mg/L	--	--	--	--	NS[7]	0.05	Standard	--
35S	UU	E007	Sulfate, total	mg/L	--	--	--	--	NS[7]	400	Standard	--
35S	UU	E007	Thallium, total	mg/L	--	--	--	--	NS[7]	0.002	Standard	--
35S	UU	E007	Total Dissolved Solids	mg/L	--	--	--	--	NS[7]	1,200	Standard	--
35D	BCU	E007	Antimony, total	mg/L	04/01/21 - 10/22/24	15	80	CI around median	0.001	0.006	Standard	No Exceedance
35D	BCU	E007	Arsenic, total	mg/L	04/01/21 - 10/22/24	15	20	CI around geomean	0.00173	0.010	Standard	No Exceedance
35D	BCU	E007	Barium, total	mg/L	04/01/21 - 10/22/24	15	0	CB around T-S line	-0.0607	2.0	Standard	No Exceedance
35D	BCU	E007	Beryllium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.001	0.004	Standard	No Exceedance
35D	BCU	E007	Boron, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	1.7	2	Standard	No Exceedance
35D	BCU	E007	Cadmium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
35D	BCU	E007	Chloride, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	324	200	Standard	Exceedance
35D	BCU	E007	Chromium, total	mg/L	04/01/21 - 10/22/24	15	80	CB around T-S line	0.00165	0.1	Standard	No Exceedance
35D	BCU	E007	Cobalt, total	mg/L	04/01/21 - 10/22/24	15	53	CB around T-S line	-0.00285	0.0900	Background	No Exceedance
35D	BCU	E007	Fluoride, total	mg/L	04/01/21 - 10/22/24	15	7	CI around median	0.65	4.0	Standard	No Exceedance
35D	BCU	E007	Lead, total	mg/L	04/01/21 - 10/22/24	15	60	CB around T-S line	-0.00424	0.0075	Standard	No Exceedance
35D	BCU	E007	Lithium, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	0.117	0.04	Standard	Exceedance
35D	BCU	E007	Mercury, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
35D	BCU	E007	Molybdenum, total	mg/L	04/01/21 - 10/22/24	15	40	CB around linear reg	-0.00149	0.1	Standard	No Exceedance
35D	BCU	E007	pH (field)	SU	04/01/21 - 10/22/24	19	0	CI around median	7.3/7.4	6.3/9.0	Background/Standard	No Exceedance
35D	BCU	E007	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 10/22/24	14	0	CI around mean	0.457	7.00	Background	No Exceedance
35D	BCU	E007	Selenium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.013	0.05	Standard	No Exceedance
35D	BCU	E007	Sulfate, total	mg/L	04/01/21 - 10/22/24	20	0	CI around mean	1,150	400	Standard	Exceedance
35D	BCU	E007	Thallium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.002	0.002	Standard	No Exceedance
35D	BCU	E007	Total Dissolved Solids	mg/L	04/01/21 - 10/22/24	20	0	CI around mean	2,820	1,200	Standard	Exceedance
70S	UU	E007	Antimony, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 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
70S	UU	E007	Arsenic, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.001	0.010	Standard	No Exceedance
70S	UU	E007	Barium, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	0.0163	2.0	Standard	No Exceedance
70S	UU	E007	Beryllium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.001	0.004	Standard	No Exceedance
70S	UU	E007	Boron, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	0.391	2	Standard	No Exceedance
70S	UU	E007	Cadmium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
70S	UU	E007	Chloride, total	mg/L	04/01/21 - 10/22/24	15	0	CB around linear reg	8.45	200	Standard	No Exceedance
70S	UU	E007	Chromium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.005	0.1	Standard	No Exceedance
70S	UU	E007	Cobalt, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.001	0.0900	Background	No Exceedance
70S	UU	E007	Fluoride, total	mg/L	04/01/21 - 10/22/24	15	7	CI around median	0.14	4.0	Standard	No Exceedance
70S	UU	E007	Lead, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
70S	UU	E007	Lithium, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	0.0123	0.04	Standard	No Exceedance
70S	UU	E007	Mercury, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
70S	UU	E007	Molybdenum, total	mg/L	04/01/21 - 10/22/24	15	40	CI around median	0.005	0.1	Standard	No Exceedance
70S	UU	E007	pH (field)	SU	04/01/21 - 10/22/24	15	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
70S	UU	E007	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 10/22/24	14	0	CI around geomean	0.132	7.00	Background	No Exceedance
70S	UU	E007	Selenium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
70S	UU	E007	Sulfate, total	mg/L	04/01/21 - 10/22/24	15	0	CB around linear reg	439	400	Standard	Exceedance
70S	UU	E007	Thallium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.002	0.002	Standard	No Exceedance
70S	UU	E007	Total Dissolved Solids	mg/L	04/01/21 - 10/22/24	15	0	CB around linear reg	1,030	1,200	Standard	No Exceedance
70D	BCU	E007	Antimony, total	mg/L	04/01/21 - 10/22/24	15	87	CI around median	0.001	0.006	Standard	No Exceedance
70D	BCU	E007	Arsenic, total	mg/L	04/01/21 - 10/22/24	15	67	CI around median	0.001	0.010	Standard	No Exceedance
70D	BCU	E007	Barium, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	0.443	2.0	Standard	No Exceedance
70D	BCU	E007	Beryllium, total	mg/L	04/01/21 - 10/22/24	15	80	CI around median	0.001	0.004	Standard	No Exceedance
70D	BCU	E007	Boron, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	1.22	2	Standard	No Exceedance
70D	BCU	E007	Cadmium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
70D	BCU	E007	Chloride, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	529	200	Standard	Exceedance
70D	BCU	E007	Chromium, total	mg/L	04/01/21 - 10/22/24	15	47	CB around linear reg	-0.0333	0.1	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 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
70D	BCU	E007	Cobalt, total	mg/L	04/01/21 - 10/22/24	15	13	CB around T-S line	-0.0668	0.0900	Background	No Exceedance
70D	BCU	E007	Fluoride, total	mg/L	04/01/21 - 10/22/24	15	7	CI around geomean	0.418	4.0	Standard	No Exceedance
70D	BCU	E007	Lead, total	mg/L	04/01/21 - 10/22/24	15	20	CB around linear reg	-0.0207	0.0075	Standard	No Exceedance
70D	BCU	E007	Lithium, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	0.0806	0.04	Standard	Exceedance
70D	BCU	E007	Mercury, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
70D	BCU	E007	Molybdenum, total	mg/L	04/01/21 - 10/22/24	15	47	CB around linear reg	-0.0147	0.1	Standard	No Exceedance
70D	BCU	E007	pH (field)	SU	04/01/21 - 10/22/24	15	0	CI around mean	6.9/7.2	6.3/9.0	Background/Standard	No Exceedance
70D	BCU	E007	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 10/22/24	14	0	CI around geomean	1.3	7.00	Background	No Exceedance
70D	BCU	E007	Selenium, total	mg/L	04/01/21 - 10/22/24	15	87	CB around T-S line	0.001	0.05	Standard	No Exceedance
70D	BCU	E007	Sulfate, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	42.5	400	Standard	No Exceedance
70D	BCU	E007	Thallium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.002	0.002	Standard	No Exceedance
70D	BCU	E007	Total Dissolved Solids	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	1,390	1,200	Standard	Exceedance
71S	UU	E007	Antimony, total	mg/L	--	--	--	--	NS[7]	0.006	Standard	--
71S	UU	E007	Arsenic, total	mg/L	--	--	--	--	NS[7]	0.010	Standard	--
71S	UU	E007	Barium, total	mg/L	--	--	--	--	NS[7]	2.0	Standard	--
71S	UU	E007	Beryllium, total	mg/L	--	--	--	--	NS[7]	0.004	Standard	--
71S	UU	E007	Boron, total	mg/L	--	--	--	--	NS[7]	2	Standard	--
71S	UU	E007	Cadmium, total	mg/L	--	--	--	--	NS[7]	0.005	Standard	--
71S	UU	E007	Chloride, total	mg/L	--	--	--	--	NS[7]	200	Standard	--
71S	UU	E007	Chromium, total	mg/L	--	--	--	--	NS[7]	0.1	Standard	--
71S	UU	E007	Cobalt, total	mg/L	--	--	--	--	NS[7]	0.0900	Background	--
71S	UU	E007	Fluoride, total	mg/L	--	--	--	--	NS[7]	4.0	Standard	--
71S	UU	E007	Lead, total	mg/L	--	--	--	--	NS[7]	0.0075	Standard	--
71S	UU	E007	Lithium, total	mg/L	--	--	--	--	NS[7]	0.04	Standard	--
71S	UU	E007	Mercury, total	mg/L	--	--	--	--	NS[7]	0.002	Standard	--
71S	UU	E007	Molybdenum, total	mg/L	--	--	--	--	NS[7]	0.1	Standard	--
71S	UU	E007	pH (field)	SU	--	--	--	--	NS[7]	6.3/9.0	Background/Standard	--

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 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	E007	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS[7]	7.00	Background	--
71S	UU	E007	Selenium, total	mg/L	--	--	--	--	NS[7]	0.05	Standard	--
71S	UU	E007	Sulfate, total	mg/L	--	--	--	--	NS[7]	400	Standard	--
71S	UU	E007	Thallium, total	mg/L	--	--	--	--	NS[7]	0.002	Standard	--
71S	UU	E007	Total Dissolved Solids	mg/L	--	--	--	--	NS[7]	1,200	Standard	--
71D	BCU	E007	Antimony, total	mg/L	--	--	--	--	NS[7]	0.006	Standard	--
71D	BCU	E007	Arsenic, total	mg/L	--	--	--	--	NS[7]	0.010	Standard	--
71D	BCU	E007	Barium, total	mg/L	--	--	--	--	NS[7]	2.0	Standard	--
71D	BCU	E007	Beryllium, total	mg/L	--	--	--	--	NS[7]	0.004	Standard	--
71D	BCU	E007	Boron, total	mg/L	--	--	--	--	NS[7]	2	Standard	--
71D	BCU	E007	Cadmium, total	mg/L	--	--	--	--	NS[7]	0.005	Standard	--
71D	BCU	E007	Chloride, total	mg/L	--	--	--	--	NS[7]	200	Standard	--
71D	BCU	E007	Chromium, total	mg/L	--	--	--	--	NS[7]	0.1	Standard	--
71D	BCU	E007	Cobalt, total	mg/L	--	--	--	--	NS[7]	0.0900	Background	--
71D	BCU	E007	Fluoride, total	mg/L	--	--	--	--	NS[7]	4.0	Standard	--
71D	BCU	E007	Lead, total	mg/L	--	--	--	--	NS[7]	0.0075	Standard	--
71D	BCU	E007	Lithium, total	mg/L	--	--	--	--	NS[7]	0.04	Standard	--
71D	BCU	E007	Mercury, total	mg/L	--	--	--	--	NS[7]	0.002	Standard	--
71D	BCU	E007	Molybdenum, total	mg/L	--	--	--	--	NS[7]	0.1	Standard	--
71D	BCU	E007	pH (field)	SU	--	--	--	--	NS[7]	6.3/9.0	Background/Standard	--
71D	BCU	E007	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS[7]	7.00	Background	--
71D	BCU	E007	Selenium, total	mg/L	--	--	--	--	NS[7]	0.05	Standard	--
71D	BCU	E007	Sulfate, total	mg/L	--	--	--	--	NS[7]	400	Standard	--
71D	BCU	E007	Thallium, total	mg/L	--	--	--	--	NS[7]	0.002	Standard	--
71D	BCU	E007	Total Dissolved Solids	mg/L	--	--	--	--	NS[7]	1,200	Standard	--

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Notes:
Compliance Result:
- No Exceedance: the statistical result did not exceed the GWPS.
- Exceedance: The statistical result exceeded the GWPS.

  Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program which was submitted to the Illinois Environmental Protection Agency (IEPA) on October 25, 2021 as part of Dynegy Midwest Generation, LLC's (DMG's) operating permit application for the New East Ash Pond. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, DMG has not identified any actual exceedances.

Events:
- NA

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 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
Statistical Result Code (if applicable):
- NR[1] = Parameter not analyzed.
- NS[1] = Well has been, or will be, abandoned; therefore, a sample was not collected.
- NS[2] = Well either needs or was undergoing maintenance; therefore, a sample was not collected.
- NS[3] = The location was not accessible; therefore, a sample was not collected.
- NS[4] = The location could not be found; therefore, a sample was not collected.
- NS[5] = The location was damaged; therefore, a sample was not collected.
- NS[6] = Sampling pump could not yield a sample.
- NS[7] = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.
- NS[8] = A sample was not collected.
- PM[1] = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.

For pH, the values presented are the lower / upper limits
GWPS Source:
- Background = background concentration
- Standard = standard specified in 35 I.A.C. § 845.600(a)(1)

FIGURES

COMPLIANCE MONITORING WELL
BACKGROUND MONITORING WELL
PORE WATER WELL
CLOSED MONITORING WELL
REGULATED UNIT (SUBJECT UNIT)
SITE FEATURE
PROPERTY BOUNDARY

NOTE:
MONTORING WELL 10 WAS ABANDONED ON DECEMBER 10, 2024 AND WAS REPLACED WITH MONITORING WELL 10R ON DECEMBER 19, 2024. THE LOCATION OF 10R IS APPROXIMATE.

0 150 300
Feet

MONITORING WELL LOCATION MAP

NEW EAST ASH POND
VERMILION POWER PLANT
OAKWOOD, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\22\22985\MXD\845_AnnualGWM2024\VERAGWR_2024.aprx\Figure 1: VER 912 Monitoring Well Location Map

PROJECT: 169000XXXX | DATED: 1/10/2025 | DESIGNER: GALARNMC

ATTACHMENTS

ATTACHMENT A
GROUNDWATER ELEVATION DATA
QUARTER 4, 2024

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 4, 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	10/21/2024	51.08	608.18
16B	Compliance	10/21/2024	Dry	
16A	Compliance	10/21/2024	9.51	570.98
22	Background	10/23/2024	[56.02]	[602.77]
35S	Compliance	10/21/2024	Dry	
35D	Compliance	10/21/2024	11.09	573.22
70S	Compliance	10/21/2024	15.46	578.45
70D	Compliance	10/21/2024	33.78	560.91
71S	Compliance	10/21/2024	11.99	567.74
71D	Compliance	10/21/2024	37.18	542.88
NED1	Water Level	10/21/2024	4.72	595.52

Notes:
BMP = below measuring point
Bracketing [ ] indicates that the measurement was obtained outside of the 24-hour period from initiation of depth to groundwater measurements.
Depth to Groundwater/Groundwater Elevation Code (if applicable):

DM[1] = Depth to water was not measured.
DM[2] = Depth to water was not measured because water was above or below the staff gage markings.
DM[3] = Depth to water was not measured because the location was inaccessible.
DM[4] = Depth to water was not measured because water level was below the top of the pump.
DM[5] = Depth to water was not measured because water level was above the top of casing (artesian well).
DM[6] = Depth to water was not measured because of damage to the well.
DM[7] = Depth to water was not measured due to required pressure transducer maintenance.
DM[8] = Lab provided groundwater elevation data and not depth to water.

NAVD88 = North American Vertical Datum of 1988

ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 4, 2024

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/04/24 16:17:30

JOB DESCRIPTION

VER-24Q4
VER_845_912

JOB NUMBER

500-258836-3

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

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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12/04/24 16:17:30

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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 53
Field Data Sheets 54

Job Narrative
500-258836-3

Receipt
The samples were received on 10/22/24 12:47. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 2.9º C, 3.4º C, 3.6º C, 3.6º C, 4.1º C, 4.1º C, 4.2º C, 5.1º C and 5.6º C.

Receipt Exceptions
Affected samples: VER_035&D (500-258836-9) and VER_NED1_FD (500-258836-16)

Received the bottles for sample 9 with the ID of 035&D, logged per COC. Received sample 16 with nothing marked on the COC, Bottles are different from sample 15.

Per client - Sample #9 is 035&D. - Email attached with COCs.
Sample #16 - Bottles substitued from VER_010_FD, as that well did not have enough volume to supply dup. Logged in analyses to match parent sample (Sample #15).

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC) Sample #29 COC is checked off for sample VER_35&D however all container labels list VER_041. Logged sample as VER_041 (logged 041 parameters).

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Sample #1- COC does not list sample date/time. Logged per container label (10/21, no sample time listed).

Metals
Method 6020B: The following sample was diluted to bring the concentration of target analytes within the calibration range: VER_NED1 (500-258836-15). Elevated reporting limits (RLs) are provided.

Method 6020B: The following samples were diluted due to the abundance of non-target analytes: VER_035&D (500-258836-9), VER_070&D (500-258836-13), VER_NED1 (500-258836-15) and VER_NED1_FD (500-258836-16). Elevated reporting limits (RLs) are provided.

Method 6020B: The following sample was diluted to bring the concentration of target analytes within the calibration range: VER_NED1_FD (500-258836-16). Elevated reporting limits (RLs) are provided.

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

General Chemistry
Method SM 2540C: The TDS matrix duplicate (DU) % RPD precision was outside of control limits for the following sample in batch:792683
(500-258888-I-12 DU). The laboratory control standard (LCS) recovery met acceptance criteria

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 500-794366 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Client Sample ID: VER_010 — Lab Sample ID: 500-258836-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.016		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00072	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.099		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.042	J	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	190		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0016	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.011		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	89		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	1.8		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	9.8		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	6.8		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	230		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	580		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	930		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)	51.16				ft	1		Field Sampling	Total/NA
Field pH	6.90				SU	1		Field Sampling	Total/NA
Field Temperature	16.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	84.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.70				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1097				umhos/cm	1		Field Sampling	Total/NA
Turbidity	45.55				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_FB — Lab Sample ID: 500-258836-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.040	J	0.050	0.013	mg/L	1		6020B	Total Recoverable
Sodium	0.62		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	0.22	J	1.0	0.12	mg/L	1		300.0	Total/NA

Client Sample ID: VER_EB — Lab Sample ID: 500-258836-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.038	J	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	0.25		0.20	0.044	mg/L	1		6020B	Total Recoverable
Potassium	2.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	1.8		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	1.1		1.0	0.12	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Client Sample ID: VER_016A — Lab Sample ID: 500-258836-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.031		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0011		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.31		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.81		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	36		0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00044	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	21		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	3.0		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	210		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	150		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	3.1		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	400		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	690		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.80		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	10.57				ft	1		Field Sampling	Total/NA
Field pH	7.58				SU	1		Field Sampling	Total/NA
Field Temperature	12.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-148.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.37				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1087				umhos/cm	1		Field Sampling	Total/NA
Turbidity	94.33				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_035&D — Lab Sample ID: 500-258836-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.12		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0031	J	0.0050	0.0012	mg/L	5		6020B	Total Recoverable
Barium	0.025		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.9		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	100		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	83		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0026	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	8.7		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	970		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	370		50	5.8	mg/L	50		300.0	Total/NA
Sulfate	1300		50	10	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	620		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3300		17	7.2	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Client Sample ID: VER_035&D (Continued) — Lab Sample ID: 500-258836-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.66		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	11.10				ft	1		Field Sampling	Total/NA
Field pH	7.45				SU	1		Field Sampling	Total/NA
Field Temperature	14.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	152.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.61				mg/L	1		Field Sampling	Total/NA
Specific Conductance	4229				umhos/cm	1		Field Sampling	Total/NA
Turbidity	118.22				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_070&D — Lab Sample ID: 500-258836-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.084		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.45		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.4		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	93		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00059	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00021	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	52		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0026	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	6.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	440		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	610		20	2.3	mg/L	20		300.0	Total/NA
Sulfate	26		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	540		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1600		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.46		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	32.55				ft	1		Field Sampling	Total/NA
Field pH	6.97				SU	1		Field Sampling	Total/NA
Field Temperature	13.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	49.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.39				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2777				umhos/cm	1		Field Sampling	Total/NA
Turbidity	90.63				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_070#S — Lab Sample ID: 500-258836-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.018		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00024	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.017		0.0025	0.00073	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: VER_070#S (Continued) — Lab Sample ID: 500-258836-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.60		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	220		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	86		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0035	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	2.4		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	24		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	13		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	510		20	4.1	mg/L	20		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	290		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	0.14		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	15.45				ft	1		Field Sampling	Total/NA
Field pH	7.12				SU	1		Field Sampling	Total/NA
Field Temperature	13.9				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	45.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.46				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1269				umhos/cm	1		Field Sampling	Total/NA
Turbidity	26.20				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_NED1 — Lab Sample ID: 500-258836-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.25		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.051		0.0050	0.0012	mg/L	5		6020B	Total Recoverable
Barium	0.088		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	11		1.0	0.25	mg/L	20		6020B	Total Recoverable
Calcium	490		0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00081		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	47		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.068		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	25		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	68		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	13		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	1400		50	10	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	160		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2100		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.18		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	4.69				ft	1		Field Sampling	Total/NA
Field pH	7.70				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: VER_NED1 (Continued) — Lab Sample ID: 500-258836-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	18.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	206.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.45				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2027				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.01				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_NED1_FD — Lab Sample ID: 500-258836-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.27		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.059		0.0050	0.0012	mg/L	5		6020B	Total Recoverable
Barium	0.093		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	12	B	1.0	0.25	mg/L	20		6020B	Total Recoverable
Calcium	510		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	46		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.084		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	28	B	0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	67	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	13		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	1400		50	10	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	160		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2100		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.18		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	4.69				ft	1		Field Sampling	Total/NA
Field pH	7.70				SU	1		Field Sampling	Total/NA
Field Temperature	18.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	206.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.45				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2027				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.01				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_022 — Lab Sample ID: 500-258836-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.031		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.085		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.41	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	47		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	26		0.20	0.049	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: VER_022 (Continued)

Lab Sample ID: 500-258836-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2.7	B	0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	110		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	6.3		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	27		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	400		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	510		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.35		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	55.95				ft	1		Field Sampling	Total/NA
Field pH	7.52				SU	1		Field Sampling	Total/NA
Field Temperature	12.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	58.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.59				mg/L	1		Field Sampling	Total/NA
Specific Conductance	710				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.02				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-258836-1	VER_010	Water	10/21/24 15:55	10/22/24 12:47
500-258836-2	VER_FB	Water	10/22/24 07:00	10/22/24 12:47
500-258836-3	VER_EB	Water	10/22/24 07:30	10/22/24 12:47
500-258836-8	VER_016A	Water	10/22/24 08:40	10/23/24 12:00
500-258836-9	VER_035&D	Water	10/22/24 08:55	10/23/24 12:00
500-258836-13	VER_070&D	Water	10/22/24 12:50	10/23/24 12:00
500-258836-14	VER_070#S	Water	10/22/24 13:25	10/23/24 12:00
500-258836-15	VER_NED1	Water	10/22/24 11:50	10/23/24 12:00
500-258836-16	VER_NED1_FD	Water	10/22/24 12:10	10/23/24 12:00
500-258836-27	VER_022	Water	10/24/24 08:20	10/24/24 12:30

Client Sample ID: VER_010

Date Collected: 10/21/24 15:55
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.016**		0.0050	0.0020	mg/L		10/31/24 09:14	11/01/24 15:24	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		11/01/24 16:43	11/06/24 12:46	1
Arsenic	**0.00072**	**J**	0.0010	0.00023	mg/L		11/01/24 16:43	11/06/24 12:46	1
Barium	**0.099**		0.0025	0.00073	mg/L		11/01/24 16:43	11/06/24 12:46	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		11/01/24 16:43	11/06/24 12:46	1
Boron	**0.042**	**J**	0.050	0.013	mg/L		11/01/24 16:43	11/07/24 10:46	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		11/01/24 16:43	11/06/24 12:46	1
Calcium	**190**		0.20	0.044	mg/L		11/01/24 16:43	11/06/24 12:46	1
Chromium	**0.0016**	**J**	0.0050	0.0011	mg/L		11/01/24 16:43	11/06/24 12:46	1
Cobalt	**0.011**		0.0010	0.00040	mg/L		11/01/24 16:43	11/06/24 12:46	1
Lead	<0.00050		0.00050	0.00019	mg/L		11/01/24 16:43	11/06/24 12:46	1
Magnesium	**89**		0.20	0.049	mg/L		11/01/24 16:43	11/06/24 12:46	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		11/01/24 16:43	11/06/24 12:46	1
Potassium	**1.8**		0.50	0.11	mg/L		11/01/24 16:43	11/06/24 12:46	1
Selenium	<0.0025		0.0025	0.00098	mg/L		11/01/24 16:43	11/06/24 12:46	1
Sodium	**9.8**		0.20	0.077	mg/L		11/01/24 16:43	11/06/24 12:46	1
Thallium	<0.0020		0.0020	0.00057	mg/L		11/01/24 16:43	11/06/24 12:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		11/05/24 10:45	11/06/24 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**6.8**		1.0	0.12	mg/L			11/11/24 12:43	1
Sulfate (EPA 300.0)	**230**		10	2.1	mg/L			11/09/24 09:11	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**580**		5.0	3.7	mg/L			10/31/24 23:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/31/24 23:13	1
Total Dissolved Solids (SM 2540C)	**930**		10	4.3	mg/L			10/28/24 10:52	1
Fluoride (SM 4500 F C)	**0.13**		0.10	0.056	mg/L			11/06/24 16:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.16**				ft			10/21/24 15:55	1
Field pH	**6.90**				SU			10/21/24 15:55	1
Field Temperature	**16.0**				Degrees C			10/21/24 15:55	1
Oxidation Reduction Potential	**84.2**				millivolts			10/21/24 15:55	1
Oxygen, Dissolved	**1.70**				mg/L			10/21/24 15:55	1
Specific Conductance	**1097**				umhos/cm			10/21/24 15:55	1
Turbidity	**45.55**				NTU			10/21/24 15:55	1

Client Sample ID: VER_FB

Date Collected: 10/22/24 07:00
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-2

Matrix: Water

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		10/31/24 09:14	11/01/24 15:42	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		11/01/24 16:43	11/06/24 12:50	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		11/01/24 16:43	11/06/24 12:50	1
Barium	<0.0025		0.0025	0.00073	mg/L		11/01/24 16:43	11/06/24 12:50	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		11/01/24 16:43	11/06/24 12:50	1
Boron	**0.040**	**J**	0.050	0.013	mg/L		11/01/24 16:43	11/07/24 10:51	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		11/01/24 16:43	11/06/24 12:50	1
Calcium	<0.20		0.20	0.044	mg/L		11/01/24 16:43	11/06/24 12:50	1
Chromium	<0.0050		0.0050	0.0011	mg/L		11/01/24 16:43	11/06/24 12:50	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		11/01/24 16:43	11/06/24 12:50	1
Lead	<0.00050		0.00050	0.00019	mg/L		11/01/24 16:43	11/06/24 12:50	1
Magnesium	<0.20		0.20	0.049	mg/L		11/01/24 16:43	11/06/24 12:50	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		11/01/24 16:43	11/06/24 12:50	1
Potassium	<0.50		0.50	0.11	mg/L		11/01/24 16:43	11/06/24 12:50	1
Selenium	<0.0025		0.0025	0.00098	mg/L		11/01/24 16:43	11/06/24 12:50	1
Sodium	**0.62**		0.20	0.077	mg/L		11/01/24 16:43	11/06/24 12:50	1
Thallium	<0.0020		0.0020	0.00057	mg/L		11/01/24 16:43	11/06/24 12:50	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		11/05/24 10:45	11/06/24 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**0.22**	**J**	1.0	0.12	mg/L			11/09/24 09:27	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			11/09/24 09:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/01/24 15:57	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/01/24 15:57	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			10/28/24 15:25	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			11/06/24 16:35	1

Client Sample ID: VER_EB

Date Collected: 10/22/24 07:30
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-3

Matrix: Water

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		10/31/24 09:14	11/01/24 15:47	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		11/01/24 16:43	11/06/24 12:55	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		11/01/24 16:43	11/06/24 12:55	1
Barium	<0.0025		0.0025	0.00073	mg/L		11/01/24 16:43	11/06/24 12:55	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		11/01/24 16:43	11/06/24 12:55	1
Boron	**0.038**	**J**	0.050	0.013	mg/L		11/01/24 16:43	11/07/24 10:56	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		11/01/24 16:43	11/06/24 12:55	1
Calcium	**0.25**		0.20	0.044	mg/L		11/01/24 16:43	11/06/24 12:55	1
Chromium	<0.0050		0.0050	0.0011	mg/L		11/01/24 16:43	11/06/24 12:55	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		11/01/24 16:43	11/06/24 12:55	1
Lead	<0.00050		0.00050	0.00019	mg/L		11/01/24 16:43	11/06/24 12:55	1
Magnesium	<0.20		0.20	0.049	mg/L		11/01/24 16:43	11/06/24 12:55	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		11/01/24 16:43	11/06/24 12:55	1
Potassium	**2.2**		0.50	0.11	mg/L		11/01/24 16:43	11/06/24 12:55	1
Selenium	<0.0025		0.0025	0.00098	mg/L		11/01/24 16:43	11/06/24 12:55	1
Sodium	**1.8**		0.20	0.077	mg/L		11/01/24 16:43	11/06/24 12:55	1
Thallium	<0.0020		0.0020	0.00057	mg/L		11/01/24 16:43	11/06/24 12:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		11/05/24 10:45	11/06/24 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**1.1**		1.0	0.12	mg/L			11/09/24 09:42	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			11/09/24 09:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/01/24 16:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/01/24 16:01	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			10/28/24 15:32	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			11/06/24 16:40	1

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Client Sample ID: VER_016A

Date Collected: 10/22/24 08:40
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.031**		0.0050	0.0020	mg/L		10/31/24 09:14	11/01/24 16:18	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		11/01/24 16:43	11/06/24 13:33	1
Arsenic	**0.0011**		0.0010	0.00023	mg/L		11/01/24 16:43	11/07/24 13:17	1
Barium	**0.31**		0.0025	0.00073	mg/L		11/01/24 16:43	11/06/24 13:33	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		11/01/24 16:43	11/06/24 13:33	1
Boron	**0.81**		0.050	0.013	mg/L		11/01/24 16:43	11/07/24 11:14	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		11/01/24 16:43	11/06/24 13:33	1
Calcium	**36**		0.20	0.044	mg/L		11/01/24 16:43	11/06/24 13:33	1
Chromium	<0.0050		0.0050	0.0011	mg/L		11/01/24 16:43	11/06/24 13:33	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		11/01/24 16:43	11/06/24 13:33	1
Lead	**0.00044**	**J**	0.00050	0.00019	mg/L		11/01/24 16:43	11/06/24 13:33	1
Magnesium	**21**		0.20	0.049	mg/L		11/01/24 16:43	11/06/24 13:33	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		11/01/24 16:43	11/06/24 13:33	1
Potassium	**3.0**		0.50	0.11	mg/L		11/01/24 16:43	11/06/24 13:33	1
Selenium	<0.0025		0.0025	0.00098	mg/L		11/01/24 16:43	11/07/24 13:17	1
Sodium	**210**		0.20	0.077	mg/L		11/01/24 16:43	11/06/24 13:33	1
Thallium	<0.0020		0.0020	0.00057	mg/L		11/01/24 16:43	11/06/24 13:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		11/05/24 10:45	11/06/24 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**150**		5.0	0.58	mg/L			11/11/24 12:59	5
Sulfate (EPA 300.0)	**3.1**		1.0	0.21	mg/L			11/09/24 12:19	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**400**		5.0	3.7	mg/L			11/01/24 16:43	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/01/24 16:43	1
Total Dissolved Solids (SM 2540C)	**690**		10	4.3	mg/L			10/28/24 16:10	1
Fluoride (SM 4500 F C)	**0.80**		0.10	0.056	mg/L			11/06/24 18:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**10.57**				ft			10/22/24 08:40	1
Field pH	**7.58**				SU			10/22/24 08:40	1
Field Temperature	**12.6**				Degrees C			10/22/24 08:40	1
Oxidation Reduction Potential	**-148.9**				millivolts			10/22/24 08:40	1
Oxygen, Dissolved	**0.37**				mg/L			10/22/24 08:40	1
Specific Conductance	**1087**				umhos/cm			10/22/24 08:40	1
Turbidity	**94.33**				NTU			10/22/24 08:40	1

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Client Sample ID: VER_035&D

Date Collected: 10/22/24 08:55
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.12**		0.0050	0.0020	mg/L		10/31/24 09:14	11/01/24 16:22	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		11/01/24 16:43	11/06/24 13:38	1
Arsenic	**0.0031**	**J**	0.0050	0.0012	mg/L		11/01/24 16:43	11/07/24 13:19	5
Barium	**0.025**		0.0025	0.00073	mg/L		11/01/24 16:43	11/06/24 13:38	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		11/01/24 16:43	11/06/24 13:38	1
Boron	**1.9**		0.050	0.013	mg/L		11/01/24 16:43	11/07/24 11:19	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		11/01/24 16:43	11/06/24 13:38	1
Calcium	**100**		0.20	0.044	mg/L		11/01/24 16:43	11/06/24 13:38	1
Chromium	<0.0050		0.0050	0.0011	mg/L		11/01/24 16:43	11/06/24 13:38	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		11/01/24 16:43	11/06/24 13:38	1
Lead	<0.00050		0.00050	0.00019	mg/L		11/01/24 16:43	11/06/24 13:38	1
Magnesium	**83**		0.20	0.049	mg/L		11/01/24 16:43	11/06/24 13:38	1
Molybdenum	**0.0026**	**J**	0.0050	0.0025	mg/L		11/01/24 16:43	11/06/24 13:38	1
Potassium	**8.7**		0.50	0.11	mg/L		11/01/24 16:43	11/06/24 13:38	1
Selenium	<0.013		0.013	0.0049	mg/L		11/01/24 16:43	11/07/24 13:19	5
Sodium	**970**		0.20	0.077	mg/L		11/01/24 16:43	11/06/24 13:38	1
Thallium	<0.0020		0.0020	0.00057	mg/L		11/01/24 16:43	11/06/24 13:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		11/05/24 10:45	11/06/24 09:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**370**		50	5.8	mg/L			11/09/24 12:34	50
Sulfate (EPA 300.0)	**1300**		50	10	mg/L			11/09/24 12:34	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**620**		5.0	3.7	mg/L			11/01/24 16:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/01/24 16:53	1
Total Dissolved Solids (SM 2540C)	**3300**		17	7.2	mg/L			10/28/24 16:17	1
Fluoride (SM 4500 F C)	**0.66**		0.10	0.056	mg/L			11/06/24 18:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**11.10**				ft			10/22/24 08:55	1
Field pH	**7.45**				SU			10/22/24 08:55	1
Field Temperature	**14.6**				Degrees C			10/22/24 08:55	1
Oxidation Reduction Potential	**152.7**				millivolts			10/22/24 08:55	1
Oxygen, Dissolved	**0.61**				mg/L			10/22/24 08:55	1
Specific Conductance	**4229**				umhos/cm			10/22/24 08:55	1
Turbidity	**118.22**				NTU			10/22/24 08:55	1

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Client Sample ID: VER_070&D

Date Collected: 10/22/24 12:50
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.084		0.0050	0.0020	mg/L		10/31/24 09:14	11/01/24 17:07	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		11/01/24 16:43	11/06/24 13:47	1
Arsenic	<0.0050		0.0050	0.0012	mg/L		11/01/24 16:43	11/07/24 13:26	5
Barium	0.45		0.0025	0.00073	mg/L		11/01/24 16:43	11/06/24 13:47	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		11/01/24 16:43	11/06/24 13:47	1
Boron	1.4		0.050	0.013	mg/L		11/01/24 16:43	11/07/24 11:29	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		11/01/24 16:43	11/06/24 13:47	1
Calcium	93		0.20	0.044	mg/L		11/01/24 16:43	11/06/24 13:47	1
Chromium	<0.0050		0.0050	0.0011	mg/L		11/01/24 16:43	11/06/24 13:47	1
Cobalt	0.00059	J	0.0010	0.00040	mg/L		11/01/24 16:43	11/06/24 13:47	1
Lead	0.00021	J	0.00050	0.00019	mg/L		11/01/24 16:43	11/06/24 13:47	1
Magnesium	52		0.20	0.049	mg/L		11/01/24 16:43	11/06/24 13:47	1
Molybdenum	0.0026	J	0.0050	0.0025	mg/L		11/01/24 16:43	11/06/24 13:47	1
Potassium	6.3		0.50	0.11	mg/L		11/01/24 16:43	11/06/24 13:47	1
Selenium	<0.013		0.013	0.0049	mg/L		11/01/24 16:43	11/07/24 13:26	5
Sodium	440		0.20	0.077	mg/L		11/01/24 16:43	11/06/24 13:47	1
Thallium	<0.0020		0.0020	0.00057	mg/L		11/01/24 16:43	11/06/24 13:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		11/05/24 10:45	11/06/24 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	610		20	2.3	mg/L			11/11/24 13:14	20
Sulfate (EPA 300.0)	26		10	2.1	mg/L			11/09/24 18:34	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	540		5.0	3.7	mg/L			11/01/24 17:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/01/24 17:35	1
Total Dissolved Solids (SM 2540C)	1600		10	4.3	mg/L			10/29/24 10:48	1
Fluoride (SM 4500 F C)	0.46		0.10	0.056	mg/L			11/06/24 19:00	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	32.55				ft			10/22/24 12:50	1
Field pH	6.97				SU			10/22/24 12:50	1
Field Temperature	13.7				Degrees C			10/22/24 12:50	1
Oxidation Reduction Potential	49.1				millivolts			10/22/24 12:50	1
Oxygen, Dissolved	1.39				mg/L			10/22/24 12:50	1
Specific Conductance	2777				umhos/cm			10/22/24 12:50	1
Turbidity	90.63				NTU			10/22/24 12:50	1

Client Sample ID: VER_070#S

Date Collected: 10/22/24 13:25
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.018**		0.0050	0.0020	mg/L		10/31/24 09:14	11/01/24 17:12	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		11/01/24 16:43	11/06/24 13:49	1
Arsenic	**0.00024**	**J**	0.0010	0.00023	mg/L		11/01/24 16:43	11/07/24 13:28	1
Barium	**0.017**		0.0025	0.00073	mg/L		11/01/24 16:43	11/06/24 13:49	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		11/01/24 16:43	11/06/24 13:49	1
Boron	**0.60**		0.050	0.013	mg/L		11/01/24 16:43	11/07/24 11:31	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		11/01/24 16:43	11/06/24 13:49	1
Calcium	**220**		0.20	0.044	mg/L		11/01/24 16:43	11/06/24 13:49	1
Chromium	<0.0050		0.0050	0.0011	mg/L		11/01/24 16:43	11/06/24 13:49	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		11/01/24 16:43	11/06/24 13:49	1
Lead	<0.00050		0.00050	0.00019	mg/L		11/01/24 16:43	11/06/24 13:49	1
Magnesium	**86**		0.20	0.049	mg/L		11/01/24 16:43	11/06/24 13:49	1
Molybdenum	**0.0035**	**J**	0.0050	0.0025	mg/L		11/01/24 16:43	11/06/24 13:49	1
Potassium	**2.4**		0.50	0.11	mg/L		11/01/24 16:43	11/06/24 13:49	1
Selenium	<0.0025		0.0025	0.00098	mg/L		11/01/24 16:43	11/07/24 13:28	1
Sodium	**24**		0.20	0.077	mg/L		11/01/24 16:43	11/06/24 13:49	1
Thallium	<0.0020		0.0020	0.00057	mg/L		11/01/24 16:43	11/06/24 13:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		11/05/24 10:45	11/06/24 10:03	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			11/09/24 18:50	1
Sulfate (EPA 300.0)	**510**		20	4.1	mg/L			11/09/24 19:06	20
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**290**		5.0	3.7	mg/L			11/01/24 17:46	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/01/24 17:46	1
Total Dissolved Solids (SM 2540C)	**1200**		10	4.3	mg/L			10/29/24 10:51	1
Fluoride (SM 4500 F C)	**0.14**		0.10	0.056	mg/L			11/06/24 19:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**15.45**				ft			10/22/24 13:25	1
Field pH	**7.12**				SU			10/22/24 13:25	1
Field Temperature	**13.9**				Degrees C			10/22/24 13:25	1
Oxidation Reduction Potential	**45.1**				millivolts			10/22/24 13:25	1
Oxygen, Dissolved	**0.46**				mg/L			10/22/24 13:25	1
Specific Conductance	**1269**				umhos/cm			10/22/24 13:25	1
Turbidity	**26.20**				NTU			10/22/24 13:25	1

Client Sample ID: VER_NED1

Date Collected: 10/22/24 11:50
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.25**		0.0050	0.0020	mg/L		10/31/24 09:14	11/01/24 17:16	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		11/01/24 16:43	11/06/24 13:52	1
Arsenic	**0.051**		0.0050	0.0012	mg/L		11/01/24 16:43	11/07/24 13:30	5
Barium	**0.088**		0.0025	0.00073	mg/L		11/01/24 16:43	11/06/24 13:52	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		11/01/24 16:43	11/06/24 13:52	1
Boron	**11**		1.0	0.25	mg/L		11/01/24 16:43	11/07/24 11:39	20
Cadmium	<0.00050		0.00050	0.00017	mg/L		11/01/24 16:43	11/06/24 13:52	1
Calcium	**490**		0.20	0.044	mg/L		11/01/24 16:43	11/06/24 13:52	1
Chromium	<0.0050		0.0050	0.0011	mg/L		11/01/24 16:43	11/06/24 13:52	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		11/01/24 16:43	11/06/24 13:52	1
Lead	**0.00081**		0.00050	0.00019	mg/L		11/01/24 16:43	11/06/24 13:52	1
Magnesium	**47**		0.20	0.049	mg/L		11/01/24 16:43	11/06/24 13:52	1
Molybdenum	**0.068**		0.0050	0.0025	mg/L		11/01/24 16:43	11/06/24 13:52	1
Potassium	**25**		0.50	0.11	mg/L		11/01/24 16:43	11/06/24 13:52	1
Selenium	<0.013		0.013	0.0049	mg/L		11/01/24 16:43	11/07/24 13:30	5
Sodium	**68**		0.20	0.077	mg/L		11/01/24 16:43	11/06/24 13:52	1
Thallium	<0.0020		0.0020	0.00057	mg/L		11/01/24 16:43	11/06/24 13:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		11/05/24 10:45	11/06/24 10:05	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			11/09/24 19:21	1
Sulfate (EPA 300.0)	**1400**		50	10	mg/L			11/11/24 13:30	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**160**		5.0	3.7	mg/L			11/01/24 17:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/01/24 17:55	1
Total Dissolved Solids (SM 2540C)	**2100**		10	4.3	mg/L			10/29/24 10:53	1
Fluoride (SM 4500 F C)	**0.18**		0.10	0.056	mg/L			11/18/24 11:59	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**4.69**				ft			10/22/24 11:50	1
Field pH	**7.70**				SU			10/22/24 11:50	1
Field Temperature	**18.5**				Degrees C			10/22/24 11:50	1
Oxidation Reduction Potential	**206.7**				millivolts			10/22/24 11:50	1
Oxygen, Dissolved	**0.45**				mg/L			10/22/24 11:50	1
Specific Conductance	**2027**				umhos/cm			10/22/24 11:50	1
Turbidity	**7.01**				NTU			10/22/24 11:50	1

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Client Sample ID: VER_NED1_FD

Date Collected: 10/22/24 12:10
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.27		0.0050	0.0020	mg/L		10/31/24 09:14	11/01/24 17:21	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		11/04/24 16:40	11/06/24 14:14	1
Arsenic	0.059		0.0050	0.0012	mg/L		11/04/24 16:40	11/07/24 14:04	5
Barium	0.093		0.0025	0.00073	mg/L		11/04/24 16:40	11/06/24 14:14	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		11/04/24 16:40	11/06/24 14:14	1
Boron	12	B	1.0	0.25	mg/L		11/04/24 16:40	11/07/24 14:02	20
Cadmium	<0.00050		0.00050	0.00017	mg/L		11/04/24 16:40	11/06/24 14:14	1
Calcium	510		0.20	0.044	mg/L		11/04/24 16:40	11/06/24 14:14	1
Chromium	<0.0050		0.0050	0.0011	mg/L		11/04/24 16:40	11/06/24 14:14	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		11/04/24 16:40	11/06/24 14:14	1
Lead	0.00019	J	0.00050	0.00019	mg/L		11/04/24 16:40	11/06/24 14:14	1
Magnesium	46		0.20	0.049	mg/L		11/04/24 16:40	11/06/24 14:14	1
Molybdenum	0.084		0.0050	0.0025	mg/L		11/04/24 16:40	11/06/24 14:14	1
Potassium	28	B	0.50	0.11	mg/L		11/04/24 16:40	11/06/24 14:14	1
Selenium	<0.013		0.013	0.0049	mg/L		11/04/24 16:40	11/07/24 14:04	5
Sodium	67	B	0.20	0.077	mg/L		11/04/24 16:40	11/06/24 14:14	1
Thallium	<0.0020		0.0020	0.00057	mg/L		11/04/24 16:40	11/06/24 14:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		11/05/24 10:45	11/06/24 10:08	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			11/09/24 19:37	1
Sulfate (EPA 300.0)	1400		50	10	mg/L			11/11/24 13:46	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	160		5.0	3.7	mg/L			11/01/24 18:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/01/24 18:04	1
Total Dissolved Solids (SM 2540C)	2100		10	4.3	mg/L			10/29/24 10:56	1
Fluoride (SM 4500 F C)	0.18		0.10	0.056	mg/L			11/18/24 12:05	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	4.69				ft			10/22/24 12:10	1
Field pH	7.70				SU			10/22/24 12:10	1
Field Temperature	18.5				Degrees C			10/22/24 12:10	1
Oxidation Reduction Potential	206.7				millivolts			10/22/24 12:10	1
Oxygen, Dissolved	0.45				mg/L			10/22/24 12:10	1
Specific Conductance	2027				umhos/cm			10/22/24 12:10	1
Turbidity	7.01				NTU			10/22/24 12:10	1

Client Sample ID: VER_022

Date Collected: 10/24/24 08:20
Date Received: 10/24/24 12:30

Lab Sample ID: 500-258836-27

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.031**		0.0050	0.0020	mg/L		11/01/24 08:40	11/01/24 18:56	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		11/04/24 16:40	11/06/24 14:49	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		11/04/24 16:40	11/07/24 14:45	1
Barium	**0.085**		0.0025	0.00073	mg/L		11/04/24 16:40	11/06/24 14:49	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		11/04/24 16:40	11/06/24 14:49	1
Boron	**0.41**	**B**	0.050	0.013	mg/L		11/04/24 16:40	11/07/24 14:45	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		11/04/24 16:40	11/06/24 14:49	1
Calcium	**47**		0.20	0.044	mg/L		11/04/24 16:40	11/06/24 14:49	1
Chromium	<0.0050		0.0050	0.0011	mg/L		11/04/24 16:40	11/06/24 14:49	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		11/04/24 16:40	11/06/24 14:49	1
Lead	<0.00050		0.00050	0.00019	mg/L		11/04/24 16:40	11/06/24 14:49	1
Magnesium	**26**		0.20	0.049	mg/L		11/04/24 16:40	11/06/24 14:49	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		11/04/24 16:40	11/06/24 14:49	1
Potassium	**2.7**	**B**	0.50	0.11	mg/L		11/04/24 16:40	11/06/24 14:49	1
Selenium	<0.0025		0.0025	0.00098	mg/L		11/04/24 16:40	11/07/24 14:45	1
Sodium	**110**		0.20	0.077	mg/L		11/04/24 16:40	11/07/24 14:45	1
Thallium	<0.0020		0.0020	0.00057	mg/L		11/04/24 16:40	11/06/24 14:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		11/05/24 10:45	11/06/24 08:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**6.3**		1.0	0.12	mg/L			11/10/24 00:02	1
Sulfate (EPA 300.0)	**27**		1.0	0.21	mg/L			11/10/24 00:02	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**400**		5.0	3.7	mg/L			11/05/24 19:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/05/24 19:47	1
Total Dissolved Solids (SM 2540C)	**510**		10	4.3	mg/L			10/30/24 22:51	1
Fluoride (SM 4500 F C)	**0.35**		0.10	0.056	mg/L			11/18/24 13:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**55.95**				ft			10/24/24 08:20	1
Field pH	**7.52**				SU			10/24/24 08:20	1
Field Temperature	**12.7**				Degrees C			10/24/24 08:20	1
Oxidation Reduction Potential	**58.6**				millivolts			10/24/24 08:20	1
Oxygen, Dissolved	**0.59**				mg/L			10/24/24 08:20	1
Specific Conductance	**710**				umhos/cm			10/24/24 08:20	1
Turbidity	**0.02**				NTU			10/24/24 08:20	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Qualifiers

Metals

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

General Chemistry

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

Glossary

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

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Metals

Prep Batch: 793265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total Recoverable	Water	200.7	
500-258836-2	VER_FB	Total Recoverable	Water	200.7	
500-258836-3	VER_EB	Total Recoverable	Water	200.7	
500-258836-8	VER_016A	Total Recoverable	Water	200.7	
500-258836-9	VER_035&D	Total Recoverable	Water	200.7	
500-258836-13	VER_070&D	Total Recoverable	Water	200.7	
500-258836-14	VER_070#S	Total Recoverable	Water	200.7	
500-258836-15	VER_NED1	Total Recoverable	Water	200.7	
500-258836-16	VER_NED1_FD	Total Recoverable	Water	200.7	
MB 500-793265/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-793265/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-258836-1 MS	VER_010	Total Recoverable	Water	200.7	
500-258836-1 DU	VER_010	Total Recoverable	Water	200.7	

Prep Batch: 793428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-27	VER_022	Total Recoverable	Water	200.7	
MB 500-793428/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-793428/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 793555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total Recoverable	Water	3005A	
500-258836-2	VER_FB	Total Recoverable	Water	3005A	
500-258836-3	VER_EB	Total Recoverable	Water	3005A	
500-258836-8	VER_016A	Total Recoverable	Water	3005A	
500-258836-9	VER_035&D	Total Recoverable	Water	3005A	
500-258836-13	VER_070&D	Total Recoverable	Water	3005A	
500-258836-14	VER_070#S	Total Recoverable	Water	3005A	
500-258836-15	VER_NED1	Total Recoverable	Water	3005A	
MB 500-793555/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-793555/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 793699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total Recoverable	Water	200.7 Rev 4.4	793265
500-258836-2	VER_FB	Total Recoverable	Water	200.7 Rev 4.4	793265
500-258836-3	VER_EB	Total Recoverable	Water	200.7 Rev 4.4	793265
500-258836-8	VER_016A	Total Recoverable	Water	200.7 Rev 4.4	793265
500-258836-9	VER_035&D	Total Recoverable	Water	200.7 Rev 4.4	793265
500-258836-13	VER_070&D	Total Recoverable	Water	200.7 Rev 4.4	793265
500-258836-14	VER_070#S	Total Recoverable	Water	200.7 Rev 4.4	793265
500-258836-15	VER_NED1	Total Recoverable	Water	200.7 Rev 4.4	793265
500-258836-16	VER_NED1_FD	Total Recoverable	Water	200.7 Rev 4.4	793265
500-258836-27	VER_022	Total Recoverable	Water	200.7 Rev 4.4	793428
MB 500-793265/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	793265
MB 500-793428/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	793428
LCS 500-793265/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	793265
LCS 500-793428/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	793428
500-258836-1 MS	VER_010	Total Recoverable	Water	200.7 Rev 4.4	793265
500-258836-1 DU	VER_010	Total Recoverable	Water	200.7 Rev 4.4	793265

Metals

Prep Batch: 793822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-16	VER_NED1_FD	Total Recoverable	Water	3005A	
500-258836-27	VER_022	Total Recoverable	Water	3005A	
MB 500-793822/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-793822/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 793924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total/NA	Water	7470A	
500-258836-2	VER_FB	Total/NA	Water	7470A	
500-258836-3	VER_EB	Total/NA	Water	7470A	
500-258836-8	VER_016A	Total/NA	Water	7470A	
500-258836-9	VER_035&D	Total/NA	Water	7470A	
500-258836-13	VER_070&D	Total/NA	Water	7470A	
500-258836-14	VER_070#S	Total/NA	Water	7470A	
500-258836-15	VER_NED1	Total/NA	Water	7470A	
500-258836-16	VER_NED1_FD	Total/NA	Water	7470A	
MB 500-793924/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-793924/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 793926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-27	VER_022	Total/NA	Water	7470A	
MB 500-793926/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-793926/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 794179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total/NA	Water	7470A	793924
500-258836-2	VER_FB	Total/NA	Water	7470A	793924
500-258836-3	VER_EB	Total/NA	Water	7470A	793924
500-258836-8	VER_016A	Total/NA	Water	7470A	793924
500-258836-9	VER_035&D	Total/NA	Water	7470A	793924
500-258836-13	VER_070&D	Total/NA	Water	7470A	793924
500-258836-14	VER_070#S	Total/NA	Water	7470A	793924
500-258836-15	VER_NED1	Total/NA	Water	7470A	793924
500-258836-16	VER_NED1_FD	Total/NA	Water	7470A	793924
500-258836-27	VER_022	Total/NA	Water	7470A	793926
MB 500-793924/12-A	Method Blank	Total/NA	Water	7470A	793924
MB 500-793926/12-A	Method Blank	Total/NA	Water	7470A	793926
LCS 500-793924/13-A	Lab Control Sample	Total/NA	Water	7470A	793924
LCS 500-793926/13-A	Lab Control Sample	Total/NA	Water	7470A	793926

Analysis Batch: 794200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total Recoverable	Water	6020B	793555
500-258836-2	VER_FB	Total Recoverable	Water	6020B	793555
500-258836-3	VER_EB	Total Recoverable	Water	6020B	793555
500-258836-8	VER_016A	Total Recoverable	Water	6020B	793555
500-258836-9	VER_035&D	Total Recoverable	Water	6020B	793555
500-258836-13	VER_070&D	Total Recoverable	Water	6020B	793555
500-258836-14	VER_070#S	Total Recoverable	Water	6020B	793555

Metals (Continued)

Analysis Batch: 794200 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-15	VER_NED1	Total Recoverable	Water	6020B	793555
500-258836-16	VER_NED1_FD	Total Recoverable	Water	6020B	793822
500-258836-27	VER_022	Total Recoverable	Water	6020B	793822
MB 500-793555/1-A	Method Blank	Total Recoverable	Water	6020B	793555
MB 500-793822/1-A	Method Blank	Total Recoverable	Water	6020B	793822
LCS 500-793555/2-A	Lab Control Sample	Total Recoverable	Water	6020B	793555
LCS 500-793822/2-A	Lab Control Sample	Total Recoverable	Water	6020B	793822

Analysis Batch: 794360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total Recoverable	Water	6020B	793555
500-258836-2	VER_FB	Total Recoverable	Water	6020B	793555
500-258836-3	VER_EB	Total Recoverable	Water	6020B	793555
500-258836-8	VER_016A	Total Recoverable	Water	6020B	793555
500-258836-9	VER_035&D	Total Recoverable	Water	6020B	793555
500-258836-13	VER_070&D	Total Recoverable	Water	6020B	793555
500-258836-14	VER_070#S	Total Recoverable	Water	6020B	793555
500-258836-15	VER_NED1	Total Recoverable	Water	6020B	793555

Analysis Batch: 794400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-8	VER_016A	Total Recoverable	Water	6020B	793555
500-258836-9	VER_035&D	Total Recoverable	Water	6020B	793555
500-258836-13	VER_070&D	Total Recoverable	Water	6020B	793555
500-258836-14	VER_070#S	Total Recoverable	Water	6020B	793555
500-258836-15	VER_NED1	Total Recoverable	Water	6020B	793555
500-258836-16	VER_NED1_FD	Total Recoverable	Water	6020B	793822
500-258836-16	VER_NED1_FD	Total Recoverable	Water	6020B	793822
500-258836-27	VER_022	Total Recoverable	Water	6020B	793822
MB 500-793822/1-A	Method Blank	Total Recoverable	Water	6020B	793822
LCS 500-793822/2-A	Lab Control Sample	Total Recoverable	Water	6020B	793822

Analysis Batch: 794406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-793822/1-A	Method Blank	Total Recoverable	Water	6020B	793822
LCS 500-793822/2-A	Lab Control Sample	Total Recoverable	Water	6020B	793822

General Chemistry

Analysis Batch: 792634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total/NA	Water	SM 2540C	
MB 500-792634/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-792634/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 792683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-2	VER_FB	Total/NA	Water	SM 2540C	
500-258836-3	VER_EB	Total/NA	Water	SM 2540C	
500-258836-8	VER_016A	Total/NA	Water	SM 2540C	
500-258836-9	VER_035&D	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 792683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-792683/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-792683/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 792855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-13	VER_070&D	Total/NA	Water	SM 2540C	
500-258836-14	VER_070#S	Total/NA	Water	SM 2540C	
500-258836-15	VER_NED1	Total/NA	Water	SM 2540C	
500-258836-16	VER_NED1_FD	Total/NA	Water	SM 2540C	
MB 500-792855/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-792855/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 793181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-27	VER_022	Total/NA	Water	SM 2540C	
MB 500-793181/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-793181/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 793438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total/NA	Water	SM 2320B	
MB 500-793438/53	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-793438/54	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 793688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-2	VER_FB	Total/NA	Water	SM 2320B	
500-258836-3	VER_EB	Total/NA	Water	SM 2320B	
500-258836-8	VER_016A	Total/NA	Water	SM 2320B	
500-258836-9	VER_035&D	Total/NA	Water	SM 2320B	
500-258836-13	VER_070&D	Total/NA	Water	SM 2320B	
500-258836-14	VER_070#S	Total/NA	Water	SM 2320B	
500-258836-15	VER_NED1	Total/NA	Water	SM 2320B	
500-258836-16	VER_NED1_FD	Total/NA	Water	SM 2320B	
MB 500-793688/28	Method Blank	Total/NA	Water	SM 2320B	
MB 500-793688/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-793688/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-793688/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 794092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-27	VER_022	Total/NA	Water	SM 2320B	
MB 500-794092/28	Method Blank	Total/NA	Water	SM 2320B	
MB 500-794092/53	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-794092/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-794092/54	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 794350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total/NA	Water	SM 4500 F C	
500-258836-2	VER_FB	Total/NA	Water	SM 4500 F C	

General Chemistry (Continued)

Analysis Batch: 794350 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-3	VER_EB	Total/NA	Water	SM 4500 F C	
500-258836-8	VER_016A	Total/NA	Water	SM 4500 F C	
500-258836-9	VER_035&D	Total/NA	Water	SM 4500 F C	
500-258836-13	VER_070&D	Total/NA	Water	SM 4500 F C	
500-258836-14	VER_070#S	Total/NA	Water	SM 4500 F C	
MB 500-794350/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-794350/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 794364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total/NA	Water	300.0	
500-258836-2	VER_FB	Total/NA	Water	300.0	
500-258836-3	VER_EB	Total/NA	Water	300.0	
500-258836-8	VER_016A	Total/NA	Water	300.0	
500-258836-9	VER_035&D	Total/NA	Water	300.0	
MB 500-794364/3	Method Blank	Total/NA	Water	300.0	
LCS 500-794364/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 794366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-13	VER_070&D	Total/NA	Water	300.0	
500-258836-14	VER_070#S	Total/NA	Water	300.0	
500-258836-14	VER_070#S	Total/NA	Water	300.0	
500-258836-15	VER_NED1	Total/NA	Water	300.0	
500-258836-16	VER_NED1_FD	Total/NA	Water	300.0	
500-258836-27	VER_022	Total/NA	Water	300.0	
MB 500-794366/3	Method Blank	Total/NA	Water	300.0	
LCS 500-794366/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 794781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total/NA	Water	300.0	
500-258836-8	VER_016A	Total/NA	Water	300.0	
500-258836-13	VER_070&D	Total/NA	Water	300.0	
500-258836-15	VER_NED1	Total/NA	Water	300.0	
500-258836-16	VER_NED1_FD	Total/NA	Water	300.0	
MB 500-794781/3	Method Blank	Total/NA	Water	300.0	
LCS 500-794781/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 795978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-15	VER_NED1	Total/NA	Water	SM 4500 F C	
500-258836-16	VER_NED1_FD	Total/NA	Water	SM 4500 F C	
500-258836-27	VER_022	Total/NA	Water	SM 4500 F C	
MB 500-795978/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-795978/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Field Service / Mobile Lab

Analysis Batch: 794394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total/NA	Water	Field Sampling	
500-258836-8	VER_016A	Total/NA	Water	Field Sampling	
500-258836-9	VER_035&D	Total/NA	Water	Field Sampling	
500-258836-13	VER_070&D	Total/NA	Water	Field Sampling	
500-258836-14	VER_070#S	Total/NA	Water	Field Sampling	
500-258836-15	VER_NED1	Total/NA	Water	Field Sampling	
500-258836-16	VER_NED1_FD	Total/NA	Water	Field Sampling	
500-258836-27	VER_022	Total/NA	Water	Field Sampling	

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-793265/1-A
Matrix: Water
Analysis Batch: 793699

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		10/31/24 09:14	11/01/24 15:16	1

Lab Sample ID: LCS 500-793265/2-A
Matrix: Water
Analysis Batch: 793699

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 793265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.254		mg/L		102	85 - 115

Lab Sample ID: 500-258836-1 MS
Matrix: Water
Analysis Batch: 793699

Client Sample ID: VER_010
Prep Type: Total Recoverable
Prep Batch: 793265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.016		0.250	0.277		mg/L		105	70 - 130

Lab Sample ID: 500-258836-1 DU
Matrix: Water
Analysis Batch: 793699

Client Sample ID: VER_010
Prep Type: Total Recoverable
Prep Batch: 793265

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.016		0.0153		mg/L		2	20

Lab Sample ID: MB 500-793428/1-A
Matrix: Water
Analysis Batch: 793699

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		11/01/24 08:40	11/01/24 17:45	1

Lab Sample ID: LCS 500-793428/2-A
Matrix: Water
Analysis Batch: 793699

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 793428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.252		mg/L		101	85 - 115

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-793555/1-A
Matrix: Water
Analysis Batch: 794200

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		11/01/24 16:43	11/06/24 12:25	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		11/01/24 16:43	11/06/24 12:25	1
Barium	<0.0025		0.0025	0.00073	mg/L		11/01/24 16:43	11/06/24 12:25	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		11/01/24 16:43	11/06/24 12:25	1
Boron	<0.050		0.050	0.013	mg/L		11/01/24 16:43	11/06/24 12:25	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		11/01/24 16:43	11/06/24 12:25	1

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

Lab Sample ID: MB 500-793555/1-A
Matrix: Water
Analysis Batch: 794200

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.20		0.20	0.044	mg/L		11/01/24 16:43	11/06/24 12:25	1
Chromium	<0.0050		0.0050	0.0011	mg/L		11/01/24 16:43	11/06/24 12:25	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		11/01/24 16:43	11/06/24 12:25	1
Lead	<0.00050		0.00050	0.00019	mg/L		11/01/24 16:43	11/06/24 12:25	1
Magnesium	<0.20		0.20	0.049	mg/L		11/01/24 16:43	11/06/24 12:25	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		11/01/24 16:43	11/06/24 12:25	1
Potassium	<0.50		0.50	0.11	mg/L		11/01/24 16:43	11/06/24 12:25	1
Selenium	<0.0025		0.0025	0.00098	mg/L		11/01/24 16:43	11/06/24 12:25	1
Sodium	<0.20		0.20	0.077	mg/L		11/01/24 16:43	11/06/24 12:25	1
Thallium	<0.0020		0.0020	0.00057	mg/L		11/01/24 16:43	11/06/24 12:25	1

Lab Sample ID: LCS 500-793555/2-A
Matrix: Water
Analysis Batch: 794200

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 793555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.523		mg/L		105	80 - 120
Arsenic	0.100	0.105		mg/L		105	80 - 120
Barium	0.500	0.496		mg/L		99	80 - 120
Beryllium	0.0500	0.0511		mg/L		102	80 - 120
Boron	1.00	1.01		mg/L		101	80 - 120
Cadmium	0.0500	0.0516		mg/L		103	80 - 120
Calcium	10.0	8.85		mg/L		88	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.534		mg/L		107	80 - 120
Lead	0.100	0.0990		mg/L		99	80 - 120
Magnesium	10.0	10.7		mg/L		107	80 - 120
Molybdenum	1.00	1.00		mg/L		100	80 - 120
Potassium	10.0	10.6		mg/L		106	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Sodium	10.0	10.6		mg/L		106	80 - 120
Thallium	0.100	0.0997		mg/L		100	80 - 120

Lab Sample ID: MB 500-793822/1-A
Matrix: Water
Analysis Batch: 794200

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		11/04/24 16:40	11/06/24 13:58	1
Barium	<0.0025		0.0025	0.00073	mg/L		11/04/24 16:40	11/06/24 13:58	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		11/04/24 16:40	11/06/24 13:58	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		11/04/24 16:40	11/06/24 13:58	1
Calcium	<0.20		0.20	0.044	mg/L		11/04/24 16:40	11/06/24 13:58	1
Chromium	<0.0050		0.0050	0.0011	mg/L		11/04/24 16:40	11/06/24 13:58	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		11/04/24 16:40	11/06/24 13:58	1
Lead	<0.00050		0.00050	0.00019	mg/L		11/04/24 16:40	11/06/24 13:58	1
Magnesium	<0.20		0.20	0.049	mg/L		11/04/24 16:40	11/06/24 13:58	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		11/04/24 16:40	11/06/24 13:58	1
Potassium	0.121	J	0.50	0.11	mg/L		11/04/24 16:40	11/06/24 13:58	1

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

Lab Sample ID: MB 500-793822/1-A
Matrix: Water
Analysis Batch: 794200

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		11/04/24 16:40	11/06/24 13:58	1

Lab Sample ID: MB 500-793822/1-A
Matrix: Water
Analysis Batch: 794400

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010	0.00023	mg/L		11/04/24 16:40	11/07/24 13:37	1
Selenium	<0.0025		0.0025	0.00098	mg/L		11/04/24 16:40	11/07/24 13:37	1
Sodium	<0.20		0.20	0.077	mg/L		11/04/24 16:40	11/07/24 13:37	1

Lab Sample ID: MB 500-793822/1-A
Matrix: Water
Analysis Batch: 794406

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 793822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050	0.013	mg/L		11/04/24 16:40	11/07/24 14:17	1

Lab Sample ID: LCS 500-793822/2-A
Matrix: Water
Analysis Batch: 794200

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 793822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.550		mg/L		110	80 - 120
Barium	0.500	0.508		mg/L		102	80 - 120
Beryllium	0.0500	0.0514		mg/L		103	80 - 120
Cadmium	0.0500	0.0531		mg/L		106	80 - 120
Calcium	10.0	8.59		mg/L		86	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.500	0.545		mg/L		109	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Magnesium	10.0	10.8		mg/L		108	80 - 120
Molybdenum	1.00	1.03		mg/L		103	80 - 120
Potassium	10.0	11.2		mg/L		112	80 - 120
Thallium	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: LCS 500-793822/2-A
Matrix: Water
Analysis Batch: 794400

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 793822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Sodium	10.0	10.6		mg/L		106	80 - 120

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

Lab Sample ID: LCS 500-793822/2-A
Matrix: Water
Analysis Batch: 794406

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 793822

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

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-793924/12-A
Matrix: Water
Analysis Batch: 794179

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 793924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		11/05/24 10:45	11/06/24 09:17	1

Lab Sample ID: LCS 500-793924/13-A
Matrix: Water
Analysis Batch: 794179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 793924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00201		mg/L		101	80 - 120

Lab Sample ID: MB 500-793926/12-A
Matrix: Water
Analysis Batch: 794179

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 793926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		11/05/24 10:45	11/06/24 07:20	1

Lab Sample ID: LCS 500-793926/13-A
Matrix: Water
Analysis Batch: 794179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 793926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00200		mg/L		100	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-794364/3
Matrix: Water
Analysis Batch: 794364

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			11/09/24 07:37	1
Sulfate	<1.0		1.0	0.21	mg/L			11/09/24 07:37	1

Lab Sample ID: LCS 500-794364/4
Matrix: Water
Analysis Batch: 794364

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	18.8		mg/L		94	90 - 110
Sulfate	20.0	21.2		mg/L		106	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-794366/3
Matrix: Water
Analysis Batch: 794366

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			11/09/24 17:16	1
Sulfate	<1.0		1.0	0.21	mg/L			11/09/24 17:16	1

Lab Sample ID: LCS 500-794366/4
Matrix: Water
Analysis Batch: 794366

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	18.9		mg/L		94	90 - 110
Sulfate	20.0	21.1		mg/L		105	90 - 110

Lab Sample ID: MB 500-794781/3
Matrix: Water
Analysis Batch: 794781

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			11/11/24 11:10	1
Sulfate	<1.0		1.0	0.21	mg/L			11/11/24 11:10	1

Lab Sample ID: LCS 500-794781/4
Matrix: Water
Analysis Batch: 794781

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	19.5		mg/L		98	90 - 110
Sulfate	20.0	20.9		mg/L		105	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-793438/53
Matrix: Water
Analysis Batch: 793438

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			10/31/24 21:31	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			10/31/24 21:31	1

Lab Sample ID: LCS 500-793438/54
Matrix: Water
Analysis Batch: 793438

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	99.2		mg/L		99	80 - 120

Lab Sample ID: MB 500-793688/28
Matrix: Water
Analysis Batch: 793688

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			11/01/24 15:45	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 500-793688/28
Matrix: Water
Analysis Batch: 793688

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			11/01/24 15:45	1

Lab Sample ID: MB 500-793688/3
Matrix: Water
Analysis Batch: 793688

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			11/01/24 11:42	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			11/01/24 11:42	1

Lab Sample ID: LCS 500-793688/29
Matrix: Water
Analysis Batch: 793688

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	104		mg/L		104	80 - 120

Lab Sample ID: LCS 500-793688/4
Matrix: Water
Analysis Batch: 793688

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.9		mg/L		99	80 - 120

Lab Sample ID: MB 500-794092/28
Matrix: Water
Analysis Batch: 794092

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			11/05/24 16:10	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			11/05/24 16:10	1

Lab Sample ID: MB 500-794092/53
Matrix: Water
Analysis Batch: 794092

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			11/05/24 19:29	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			11/05/24 19:29	1

Lab Sample ID: LCS 500-794092/29
Matrix: Water
Analysis Batch: 794092

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

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

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 500-794092/54
Matrix: Water
Analysis Batch: 794092

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	103		mg/L		103	80 - 120

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

Lab Sample ID: MB 500-792634/1
Matrix: Water
Analysis Batch: 792634

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			10/28/24 10:25	1

Lab Sample ID: LCS 500-792634/2
Matrix: Water
Analysis Batch: 792634

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	254		mg/L		102	80 - 120

Lab Sample ID: MB 500-792683/1
Matrix: Water
Analysis Batch: 792683

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			10/28/24 13:41	1

Lab Sample ID: LCS 500-792683/2
Matrix: Water
Analysis Batch: 792683

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	262		mg/L		105	80 - 120

Lab Sample ID: MB 500-792855/1
Matrix: Water
Analysis Batch: 792855

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			10/29/24 10:32	1

Lab Sample ID: LCS 500-792855/2
Matrix: Water
Analysis Batch: 792855

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	250		mg/L		100	80 - 120

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

Lab Sample ID: MB 500-793181/1
Matrix: Water
Analysis Batch: 793181

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			10/30/24 22:39	1

Lab Sample ID: LCS 500-793181/2
Matrix: Water
Analysis Batch: 793181

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

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

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-794350/3
Matrix: Water
Analysis Batch: 794350

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			11/06/24 15:05	1

Lab Sample ID: LCS 500-794350/4
Matrix: Water
Analysis Batch: 794350

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.2		mg/L		102	90 - 119

Lab Sample ID: MB 500-795978/3
Matrix: Water
Analysis Batch: 795978

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			11/18/24 11:17	1

Lab Sample ID: LCS 500-795978/4
Matrix: Water
Analysis Batch: 795978

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	9.25		mg/L		92	90 - 119

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Client Sample ID: VER_010
Date Collected: 10/21/24 15:55
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			793265	BDE	EET CHI	10/31/24 09:14 - 10/31/24 15:14 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	793699	SJ	EET CHI	11/01/24 15:24
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794200	RN	EET CHI	11/06/24 12:46
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794360	RN	EET CHI	11/07/24 10:46
Total/NA	Prep	7470A			793924	MJG	EET CHI	11/05/24 10:45 - 11/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	794179	MJG	EET CHI	11/06/24 09:21
Total/NA	Analysis	300.0		1	794781	MM	EET CHI	11/11/24 12:43
Total/NA	Analysis	300.0		10	794364	MM	EET CHI	11/09/24 09:11
Total/NA	Analysis	SM 2320B		1	793438	SO	EET CHI	10/31/24 23:13
Total/NA	Analysis	SM 2540C		1	792634	SO	EET CHI	10/28/24 10:52
Total/NA	Analysis	SM 4500 F C		1	794350	ER	EET CHI	11/06/24 16:24
Total/NA	Analysis	Field Sampling		1	794394	DN	EET CHI	10/21/24 15:55

Client Sample ID: VER_FB
Date Collected: 10/22/24 07:00
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			793265	BDE	EET CHI	10/31/24 09:14 - 10/31/24 15:14 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	793699	SJ	EET CHI	11/01/24 15:42
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794200	RN	EET CHI	11/06/24 12:50
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794360	RN	EET CHI	11/07/24 10:51
Total/NA	Prep	7470A			793924	MJG	EET CHI	11/05/24 10:45 - 11/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	794179	MJG	EET CHI	11/06/24 09:23
Total/NA	Analysis	300.0		1	794364	MM	EET CHI	11/09/24 09:27
Total/NA	Analysis	SM 2320B		1	793688	SO	EET CHI	11/01/24 15:57
Total/NA	Analysis	SM 2540C		1	792683	SO	EET CHI	10/28/24 15:25
Total/NA	Analysis	SM 4500 F C		1	794350	ER	EET CHI	11/06/24 16:35

Client Sample ID: VER_EB
Date Collected: 10/22/24 07:30
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			793265	BDE	EET CHI	10/31/24 09:14 - 10/31/24 15:14 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	793699	SJ	EET CHI	11/01/24 15:47
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794200	RN	EET CHI	11/06/24 12:55
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794360	RN	EET CHI	11/07/24 10:56

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Client Sample ID: VER_EB
Date Collected: 10/22/24 07:30
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			793924	MJG	EET CHI	11/05/24 10:45 - 11/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	794179	MJG	EET CHI	11/06/24 09:25
Total/NA	Analysis	300.0		1	794364	MM	EET CHI	11/09/24 09:42
Total/NA	Analysis	SM 2320B		1	793688	SO	EET CHI	11/01/24 16:01
Total/NA	Analysis	SM 2540C		1	792683	SO	EET CHI	10/28/24 15:32
Total/NA	Analysis	SM 4500 F C		1	794350	ER	EET CHI	11/06/24 16:40

Client Sample ID: VER_016A
Date Collected: 10/22/24 08:40
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			793265	BDE	EET CHI	10/31/24 09:14 - 10/31/24 15:14 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	793699	SJ	EET CHI	11/01/24 16:18
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794200	RN	EET CHI	11/06/24 13:33
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794360	RN	EET CHI	11/07/24 11:14
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794400	RN	EET CHI	11/07/24 13:17
Total/NA	Prep	7470A			793924	MJG	EET CHI	11/05/24 10:45 - 11/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	794179	MJG	EET CHI	11/06/24 09:40
Total/NA	Analysis	300.0		5	794781	MM	EET CHI	11/11/24 12:59
Total/NA	Analysis	300.0		1	794364	MM	EET CHI	11/09/24 12:19
Total/NA	Analysis	SM 2320B		1	793688	SO	EET CHI	11/01/24 16:43
Total/NA	Analysis	SM 2540C		1	792683	SO	EET CHI	10/28/24 16:10
Total/NA	Analysis	SM 4500 F C		1	794350	ER	EET CHI	11/06/24 18:13
Total/NA	Analysis	Field Sampling		1	794394	DN	EET CHI	10/22/24 08:40

Client Sample ID: VER_035&D
Date Collected: 10/22/24 08:55
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			793265	BDE	EET CHI	10/31/24 09:14 - 10/31/24 15:14 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	793699	SJ	EET CHI	11/01/24 16:22
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794200	RN	EET CHI	11/06/24 13:38
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794360	RN	EET CHI	11/07/24 11:19
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		5	794400	RN	EET CHI	11/07/24 13:19
Total/NA	Prep	7470A			793924	MJG	EET CHI	11/05/24 10:45 - 11/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	794179	MJG	EET CHI	11/06/24 09:42

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Client Sample ID: VER_035&D
Date Collected: 10/22/24 08:55
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		50	794364	MM	EET CHI	11/09/24 12:34
Total/NA	Analysis	SM 2320B		1	793688	SO	EET CHI	11/01/24 16:53
Total/NA	Analysis	SM 2540C		1	792683	SO	EET CHI	10/28/24 16:17
Total/NA	Analysis	SM 4500 F C		1	794350	ER	EET CHI	11/06/24 18:24
Total/NA	Analysis	Field Sampling		1	794394	DN	EET CHI	10/22/24 08:55

Client Sample ID: VER_070&D
Date Collected: 10/22/24 12:50
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			793265	BDE	EET CHI	10/31/24 09:14 - 10/31/24 15:14 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	793699	SJ	EET CHI	11/01/24 17:07
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794200	RN	EET CHI	11/06/24 13:47
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794360	RN	EET CHI	11/07/24 11:29
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		5	794400	RN	EET CHI	11/07/24 13:26
Total/NA	Prep	7470A			793924	MJG	EET CHI	11/05/24 10:45 - 11/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	794179	MJG	EET CHI	11/06/24 10:01
Total/NA	Analysis	300.0		20	794781	MM	EET CHI	11/11/24 13:14
Total/NA	Analysis	300.0		10	794366	MM	EET CHI	11/09/24 18:34
Total/NA	Analysis	SM 2320B		1	793688	SO	EET CHI	11/01/24 17:35
Total/NA	Analysis	SM 2540C		1	792855	SO	EET CHI	10/29/24 10:48
Total/NA	Analysis	SM 4500 F C		1	794350	ER	EET CHI	11/06/24 19:00
Total/NA	Analysis	Field Sampling		1	794394	DN	EET CHI	10/22/24 12:50

Client Sample ID: VER_070#S
Date Collected: 10/22/24 13:25
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			793265	BDE	EET CHI	10/31/24 09:14 - 10/31/24 15:14 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	793699	SJ	EET CHI	11/01/24 17:12
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794200	RN	EET CHI	11/06/24 13:49
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794360	RN	EET CHI	11/07/24 11:31
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794400	RN	EET CHI	11/07/24 13:28
Total/NA	Prep	7470A			793924	MJG	EET CHI	11/05/24 10:45 - 11/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	794179	MJG	EET CHI	11/06/24 10:03
Total/NA	Analysis	300.0		1	794366	MM	EET CHI	11/09/24 18:50

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Client Sample ID: VER_070#S
Date Collected: 10/22/24 13:25
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		20	794366	MM	EET CHI	11/09/24 19:06
Total/NA	Analysis	SM 2320B		1	793688	SO	EET CHI	11/01/24 17:46
Total/NA	Analysis	SM 2540C		1	792855	SO	EET CHI	10/29/24 10:51
Total/NA	Analysis	SM 4500 F C		1	794350	ER	EET CHI	11/06/24 19:12
Total/NA	Analysis	Field Sampling		1	794394	DN	EET CHI	10/22/24 13:25

Client Sample ID: VER_NED1
Date Collected: 10/22/24 11:50
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			793265	BDE	EET CHI	10/31/24 09:14 - 10/31/24 15:14 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	793699	SJ	EET CHI	11/01/24 17:16
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		1	794200	RN	EET CHI	11/06/24 13:52
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		20	794360	RN	EET CHI	11/07/24 11:39
Total Recoverable	Prep	3005A			793555	S1Z	EET CHI	11/01/24 16:43 - 11/01/24 21:43 [1]
Total Recoverable	Analysis	6020B		5	794400	RN	EET CHI	11/07/24 13:30
Total/NA	Prep	7470A			793924	MJG	EET CHI	11/05/24 10:45 - 11/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	794179	MJG	EET CHI	11/06/24 10:05
Total/NA	Analysis	300.0		50	794781	MM	EET CHI	11/11/24 13:30
Total/NA	Analysis	300.0		1	794366	MM	EET CHI	11/09/24 19:21
Total/NA	Analysis	SM 2320B		1	793688	SO	EET CHI	11/01/24 17:55
Total/NA	Analysis	SM 2540C		1	792855	SO	EET CHI	10/29/24 10:53
Total/NA	Analysis	SM 4500 F C		1	795978	SO	EET CHI	11/18/24 11:59
Total/NA	Analysis	Field Sampling		1	794394	DN	EET CHI	10/22/24 11:50

Client Sample ID: VER_NED1_FD
Date Collected: 10/22/24 12:10
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			793265	BDE	EET CHI	10/31/24 09:14 - 10/31/24 15:14 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	793699	SJ	EET CHI	11/01/24 17:21
Total Recoverable	Prep	3005A			793822	S1Z	EET CHI	11/04/24 16:40 - 11/04/24 20:40 [1]
Total Recoverable	Analysis	6020B		1	794200	RN	EET CHI	11/06/24 14:14
Total Recoverable	Prep	3005A			793822	S1Z	EET CHI	11/04/24 16:40 - 11/04/24 20:40 [1]
Total Recoverable	Analysis	6020B		20	794400	RN	EET CHI	11/07/24 14:02
Total Recoverable	Prep	3005A			793822	S1Z	EET CHI	11/04/24 16:40 - 11/04/24 20:40 [1]
Total Recoverable	Analysis	6020B		5	794400	RN	EET CHI	11/07/24 14:04
Total/NA	Prep	7470A			793924	MJG	EET CHI	11/05/24 10:45 - 11/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	794179	MJG	EET CHI	11/06/24 10:08
Total/NA	Analysis	300.0		50	794781	MM	EET CHI	11/11/24 13:46

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Client Sample ID: VER_NED1_FD

Lab Sample ID: 500-258836-16

Date Collected: 10/22/24 12:10
Date Received: 10/23/24 12:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	794366	MM	EET CHI	11/09/24 19:37
Total/NA	Analysis	SM 2320B		1	793688	SO	EET CHI	11/01/24 18:04
Total/NA	Analysis	SM 2540C		1	792855	SO	EET CHI	10/29/24 10:56
Total/NA	Analysis	SM 4500 F C		1	795978	SO	EET CHI	11/18/24 12:05
Total/NA	Analysis	Field Sampling		1	794394	DN	EET CHI	10/22/24 12:10

Client Sample ID: VER_022

Lab Sample ID: 500-258836-27

Date Collected: 10/24/24 08:20
Date Received: 10/24/24 12:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			793428	BDE	EET CHI	11/01/24 08:40 - 11/01/24 14:40 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	793699	SJ	EET CHI	11/01/24 18:56
Total Recoverable	Prep	3005A			793822	S1Z	EET CHI	11/04/24 16:40 - 11/04/24 20:40 [1]
Total Recoverable	Analysis	6020B		1	794200	RN	EET CHI	11/06/24 14:49
Total Recoverable	Prep	3005A			793822	S1Z	EET CHI	11/04/24 16:40 - 11/04/24 20:40 [1]
Total Recoverable	Analysis	6020B		1	794400	RN	EET CHI	11/07/24 14:45
Total/NA	Prep	7470A			793926	MJG	EET CHI	11/05/24 10:45 - 11/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	794179	MJG	EET CHI	11/06/24 08:04
Total/NA	Analysis	300.0		1	794366	MM	EET CHI	11/10/24 00:02
Total/NA	Analysis	SM 2320B		1	794092	ER	EET CHI	11/05/24 19:47
Total/NA	Analysis	SM 2540C		1	793181	CLB	EET CHI	10/30/24 22:51
Total/NA	Analysis	SM 4500 F C		1	795978	SO	EET CHI	11/18/24 13:30
Total/NA	Analysis	Field Sampling		1	794394	DN	EET CHI	10/24/24 08:20

[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

Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-3
SDG: VER_845_912

Laboratory: Eurofins Chicago

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	Lithium
Field Sampling		Water	Depth to Water (ft from MP)
Field Sampling		Water	Field pH
Field Sampling		Water	Field Temperature
Field Sampling		Water	Oxidation Reduction Potential
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Turbidity
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3

CHAIN-OF-CUSTODY / Analytical Request Document

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500-258836

Page 1 of 3

500-258836 COC

Section A Required Client Information.

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

Section B Required Project Information

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

Section C Invoice Information.

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_002																X	X				X			
2	VER_003R																X	X				X			
3	VER_003R_FD																X	X				X			
4	VER_004																X	X				X			
5	VER_005																X	X				X			
6	VER_007R																X	X				X			
7	VER_008R																X	X				X			
8	VER_010			10-21-24	1555												X		X	X	X				Well went Dry @ 10 FD
9	VER_010_FD			dbn 103024	dbn 110724												X		X	X	X				
10	VER_101&																X	X				X			
11	VER_103&																X	X				X			
12	VER_016A																X		X	X	X				
13	VER_016IB																X		X	X	X				
14	VER_017																X	X				X			
15	VER_020																X	X				X			
16	VER_021																X	X				X			MS/MSD

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewicz	10.22.24	0800	D.J. Ellison	10/22/24	1077	
	D.J. Ellison	10/22/24	1247	Stephanie Hernandez EEHA	10/22/24	1247	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz

DATE Signed (MM/DD/YY): 10/22/24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3.1+2.9			

Note * will move FD From 010 To Another well.

500-158834

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information

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

Section B Required Project Information

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_ND3																X				X			
2	VER_NED1																	X			X			
3	VER_OED1																X				X			
4	VER_YSG01																X					X		DTW ONLY
5	VER_FB			10.22.24	0700											X		X	X	X				
6	VER_EB			10.22.24	0730											X		X	X	X				
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								

2
3

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewicz	10/22/24	0800	N.J. Ellis	10/22/24	1027	
	N.J. Ellis	10/22/24	1247	Stephanie Hemandez FETA	10/22/24	1297	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz

DATE Signed (MM/DD/YY): 10-22-24

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

CHAIN-OF-CUSTODY / Analytical Request Document

500-258836

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

Section A Required Client Information

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

Section B Required Project Information.

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

Section C Invoice Information

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

500-258836 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N Analysis Test: VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	VER_002															X	X				X			
2	VER_003R			10-22-23	1300											X	X				X			
3	VER_003R_FD			10-22-23	1305											X	X				X			
4	VER_004			10-22-23	1215											X	X				X			
5	VER_005			10-22-23	1130											X	X				X			
6	VER_007R															X	X				X			
7	VER_008R															X	X				X			
8	VER_010															X		X	X	X				
9	VER_010_FD															X		X	X	X				
10	VER_101&															X	X				X			
11	VER_103&															X	X				X			
12	VER_016A			10-22-24	0840											X		X	X	X				
13	VER_016IB															X		X	X	X				
14	VER_017															X	X				X			
15	VER_020															X	X				X			
16	VER_021															X	X				X			MS/MSD

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorae Filewicz	10/23/24	0800	[signature]	10/23/24	1200	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorae Filewicz

SIGNATURE of SAMPLER: Lorae Filewicz

DATE Signed (MM/DD/YY): 10/23/24

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

5.3→5.1, 4.4→4.2
3.6→3.4, 3.8→3.6

500-258836

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

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

Section B Required Project Information:

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

Section C Invoice Information

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 /)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_022																X		X			X			
2	VER_034																X	X				X			
3	VER_035&D																X		X	X	X				
4	VER_035~~#S~~ &D			10/22/24	0855			-									X		X	X	X				35&D
5	VER_036 dbn 103024																X	X				X			
6	VER_037																X	X				X			
7	VER_038																X	X				X			
8	VER_038_FD																X	X				X			
9	VER_041																X	X				X			
10	VER_042			10/22-24	1510												X	X				X			MS/MSD
11	VER_043			10/22-24	1555												X	X				X			
12	VER_043_FD			10/22/24	1600												X	X				X			
13	VER_070&D			10-22-24	1250												X		X			X			
14	VER_070#S			10 22-24	1325												X		X			X			
15	VER_071&D																X		X			X			
16	VER_071#S																X		X			X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewicz	10/23/24	0800	[signature]	10/23/24	1208	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz

DATE Signed (MM/DD/YY): 10/23/24

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

CHAIN-OF-CUSTODY / Analytical Request Document

500-258836

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information.	
Company:	Vistra Corp-Vermilion	Report To.	Brian Voelker	Attention.	Dianna Tickner
Address	10188 E 2150 North Rd	Copy To:	Sam Davies samantha davies@vistracorp com	Company Name:	Vistra Corp
	Danville, IL 61834		Dianna Tickner - dianna.tickner@vistracorp.com	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference	
Phone	(217) 753-8911 Fax.	Project Name:		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50022750	Profile #:	

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

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_ND3																	X				X			
15 2	VER_NED1			10.22.24	1150														X			X			
3	VER_OED1																	X				X			
4	VER_YSG01																	X					X		DTW ONLY
5	VER_FB																X		X	X	X				
16 6	VER_EB																X		X	X	X				
7	ned 1 - FD			102224	1210														X			X			
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewicz	10-23-24	0800	[signature]	10/23/24	1200	

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	Lorne Filewicz				
SIGNATURE of SAMPLER	Lorne Filewicz — DATE Signed (MM/DD/YY) 10-23-24				

500-258836

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information

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

Section B Required Project Information

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

Section C Invoice Information

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I.D.
17 1	VER_002			10-23-24	1010												X	X				X			
2	VER_003R																X	X				X			
3	VER_003R_FD																X	X				X			
4	VER_004																X	X				X			
5	VER_005																X	X				X			
18 6	VER_007R			10-23-24	1050												X	X				X			
7	VER_008R																X	X				X			
8	VER_010																X		X	X	X				
9	VER_010_FD																X		X	X	X				
19 10	VER_101&			10-23-24	0835												X	X				X			
20 11	VER_103&			10-23-24	1020												X	X				X			
12	VER_016A																X		X	X	X				
13	VER_016IB																X		X	X	X				
14	VER_017																X	X				X			
21 15	VER_020			10-23-24	1545												X	X				X			
22 16	VER_021			10-23-24	1155												X	X				X			MS/MSD

500-258836 COC

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewicz	10-24-24	0800	Stephanie Hernandez EETA	10/24/24	1115	5.8→5.6

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 10-24-24

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

5.8→5.6, 3.8→3.6
4.3→4.1, 4.3→4.1

12/04/24

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-258831p

Section A Required Client Information.

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

Section B Required Project Information:

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

Section C Invoice Information.

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	VER_022																	X		X			X			
2	VER_034																	X	X				X			
3	VER_035&D																	X		X	X	X				
4	VER_035#S																	X		X	X	X				
23 5	VER_036			10-23-24	0810													X	X				X			
24 6	VER_037			10-23-24	0850													X	X				X			
25 7	VER_038			10-23-24	1420													X	X				X			
26 8	VER_038_FD			10-23-24	1435													X	X				X			
9	VER_041																	X	X				X			
10	VER_042																	X	X				X			MS/MSD
11	VER_043																	X	X				X			
12	VER_043_FD																	X	X				X			
13	VER_070&D																	X		X			X			
14	VER_070#S																	X		X			X			
15	VER_071&D																	X		X			X			
16	VER_071#S																	X		X			X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewicz	10-24-24	0800	Stephanie Hernandez EEHA	10/29/24	1115	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz

DATE Signed (MM/DD/YY): 10-24-24

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

500-258836

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Vermillion	Report To:	Brian Voelker	Attention	Dianna Tickner
Address	10188 E 2150 North Rd	Copy To:	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Danville, IL 61834		Dianna Tickner - dianna tickner@vistracorp com	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference	
Phone:	(217) 753-8911 Fax:	Project Name		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50022750	Profile #:	

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

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_022			10-24-24	0820												X		X			X			
2	VER_034			10-24-24	0800												X	X				X			
3	VER_035&D			~~10-24-24~~	~~0850~~												X		X	X	X				
4	VER_035#S			dbn 103024													X		X	X	X				
5	VER_036																X	X				X			
6	VER_037																X	X				X			
7	VER_038																X	X				X			
8	VER_038_FD																X	X				X			
9	VER_041			10-24-24	0850												X	X				X			
10	VER_042			dbn 103024													X	X				X			MS/MSD
11	VER_043																X	X				X			
12	VER_043_FD																X	X				X			
13	VER_070&D																X		X			X			
14	VER_070#S																X		X			X			
15	VER_071&D																X		X			X			
16	VER_071#S																X		X			X			

27
28
29

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewich	10-24-24	1230	Dahjane Yarbrough CETA	10/24/24	1230	

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	Lorne Filewich				
SIGNATURE of SAMPLER	Lorne Filewich	DATE Signed (MM/DD/YY)			

Outlook

Re: VER sample question

From George Assalley <george@a3e.com>
Date Thu 10/24/2024 9:05 AM
To Dirk Nelson <Dirk.Nelson@et.eurofinsus.com>

Unverified Sender: The sender of this email has not been verified. Review the content of the message carefully and verify the identity of the sender before acting on this email: replying, opening attachments or clicking links.

Hey Dirk,
The #9 sample bottles collected were from Well Ver_035&D. The COC must have been mislabeled. I apologize for any confusion.
Thanks

George Assalley
A3 Environmental Consultants
T: (317) 910-8662

On Thu, Oct 24, 2024 at 8:46 AM Dirk Nelson <Dirk.Nelson@et.eurofinsus.com> wrote:

> Per sample receiving - Sample #9, received yesterday, was recorded on the COC as VER_035#S, collected on 10/22 at 0855. The bottles received were labeled VER_035&D. Please confirm which well this actually is.
>
> Thanks,
>
> **Dirk Nelson**
> Project Management Assistant
>
> Eurofins Environment Testing North Central - Chicago
> 2417 Bond Street
> University Park, IL 60484 USA
> Phone: 708-534-5200 ext. 847116
>
> Dirk.Nelson@ET.EurofinsUS.com
> www.EurofinsUS.com/Env
> Follow Us! Facebook | LinkedIn

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-258836-3
SDG Number: VER_845_912

Login Number: 258836
List Number: 1
Creator: Hernandez, Stephanie

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	2.9,5.1,4.2,3.4,3.6,5.6,3.6,4.1,4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date and/or time on COC, logged in per container labels.
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.	False	No date or time on COC, logged in per container labels.
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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra

Project Number: 7029.099 Task #: Start Date: 10 /21 /2024 dbn 120424 Time: 1300

Field Personnel: CA / LF Finish Date: N/A Time:

WELL INFORMATION

Well ID: OSR

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other

(Specify): Low Flow

YSI SERIAL NO

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity

NOTES (continued)

No Sample collected

Well was Dry During Water Level collection

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

FT BTOC - Feet Below Top of Casing na -

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra

Project Number: Task #: Start Date: 10/21/2024 dbn 120424 Time: 1045

Field Personnel: GA/LF Finish Date: N/A Time:

WELL INFORMATION

Well ID: 016.13

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other

(Specify): Low Flow

YSI SERIAL NO

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity

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

No Sample Collected

Well was Dry During Water Level collection

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra

Project Number: Task #: Start Date: 10 /21/2024 dbn 120424 Time: 1055

Field Personnel: GA/LF Finish Date: N/A Time:

WELL INFORMATION

Well ID: 035HS

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other (Specify): Low Flow

YSI SERIAL NO

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity

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

NO SAMPLE Collected
Well was Dry During water Level collection

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra

Project Number: Task #: Start Date: 10/21/2024 dbn 120424 Time: 1035

Field Personnel: GA/LF Finish Date: N/A Time:

WELL INFORMATION

Well ID: 07145

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other

(Specify): Low Flow

YSI SERIAL NO

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity

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

No Sample collected
Well was Dry During Water level collection

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra

Project Number: Task #: Start Date: 10 / 21 /2024 dbn 120424 Time: 1035

Field Personnel: GA/LF Finish Date: Time:

WELL INFORMATION

Well ID: 07GD

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other

(Specify): Low Flow

YSI SERIAL NO

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity

NOTES (continued)

No Sample collected

well was Dry During water level collection

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

FT BTOC - Feet Below Top of Casing na -

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra

Project Number: Task #: Start Date: 10 /21 /2024 dbm 120424 Time: 1220

Field Personnel: GA/LF Finish Date: N/A Time:

WELL INFORMATION

Well ID: MD3

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other (Specify): Low Flow

YSI SERIAL NO

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity

NOTES (continued)

No Sample collected
Well was Dry During Water Level Collection

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra

Project Number: Task #: Start Date: 10 /21 /2024 dbn 120424 Time: 1230

Field Personnel: GA | LF Finish Date: N/A Time:

WELL INFORMATION

Well ID: GED-1

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other

(Specify): Low Flow

YSI SERIAL NO

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity

NOTES (continued)

No Sample collected
Well was Dry During water level collection

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0099 Task #: Start Date: 10/23/2024 Time: 0930
Field Personnel: G. Aisling Finish Date: 10/23/24 Time: 1025

WELL INFORMATION

Well ID:
Casing ID: 02 inches

EVENT TYPE

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

YSI SERIAL NO 4101474X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	0935		19.71								
Purge	0940	0.5	20.14		15.2	7.43	551	1.54	16.51	33.7	Clear
	0945	0.5	20.26		15.4	7.47	633	0.30	20.05	-9.4	
	0950	0.5	20.37		15.7	7.55	695	0.21	38.72	-57.5	
	0955	0.5	20.47		15.1	7.74	818	0.19	54.84	-136.7	
	1000	1	20.62		15.0	7.76	829	0.16	59.20	-151.8	
↓	1005	1	20.68		15.0	7.75	832	0.10	57.40	-154.0	↓
Samp	1010	1.5	21.12								

NOTES (continued)

1010
Ver_02 (a) 10098 on 10/23/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0099 Task #: Start Date: 10/22/2024 Time: 1230
Field Personnel: G. Assalley Finish Date: 10/22/24 Time: 1310

Duff Heron

WELL INFORMATION

Well ID: 03R
Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO

U10174X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1235	0	~~8.81~~ 9.0								
Purge	1240	0.5	9.0		14.4	7.10	1840	2.72	12.01	-26.4	Clear
↓	1245	1	9.0		13.6	7.38	1324	0.21	16.92	-134.6	↓
	1250	1.5	9.04		13.7	7.38	1326	0.18	16.55	-136.8	
↓	1255	2	9.01		13.6	7.38	1330	0.13	16.74	-140.4	↓
Sample	1300	2.5									
Sample	1305	3									

NOTES (continued)

(a) 1300 and 1305

Ver_03R 10/22/24

Ver_03R FD

Ver 03R 1300

Ver 03R FD 1305

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion
Client: Vistra
Project Number:
Task #:
Start Date: 10/22/2024
Time: 1150
Heron 100ft.
Field Personnel: G. Assilly
Finish Date: 10/22/24
Time: 1230

WELL INFORMATION

Well ID: 04
Casing ID: Ver_04 inches

EVENT TYPE

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

YSI SERIAL NO 4101474x

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10% +/-0.1	pH (SU) +/- .01 +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% +/-	Turbidity (NTU) 10% <10	ORP (mV) 10% +/-10	Visual Clarity
Pre	1150	0	9.19	—	—	—	—	—	—	—	—
Purge	1155	0.5	9.16	—	15.7	7.63	425.8	0.40	6.09	-155.8	Clear
	1200	1	9.20		15.6	7.64	425.7	0.17	1.40	-164.6	
	1205	1.5	9.24		15.6	7.62	429.5	0.11	1.06	-165.0	
	1210	2	9.23		15.7	7.61	430.0	0.08	0.79	-164.0	
Sample	1215	2.5	9.75								
Final	1220	3.5	8.89								

NOTES (continued)

Ver 04 sampled @ 1215 on 10/22/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra

Project Number: 2024.0099 Task #: Start Date: 10/22/2024 Time: 1100

Field Personnel: G. Asdall Finish Date: 10/22/2024 Time: 1140

WELL INFORMATION

Well ID: 05

Casing ID: inches

EVENT TYPE

Well Development
Well Volume Approach Sampling

Low-Flow / Low Stress Sampling
Other (Specify): Low Flow

YSI SERIAL NO U10174X 100ft HydroSphere

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10% 0.1	pH (SU) +/- .01 0.01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% +/- 0.2	Turbidity (NTU) 10% > 10	ORP (mV) 10% +/- 10	Visual Clarity
Pre	1100	—	8.79	—	—	—	—	—	—	—	—
Purge	1105	0.5>	9.22	—	15.3	7.37	745	2.43	5.36	42.1	Clear
↓	1110	0.5	9.29		15.2	7.39	736	0.26	1.74	13	↑
↓	1115	1	9.21		15.1	7.39	737	0.17	1.25	5.0	↑
↓	1120	1.5	8.82		15.2	7.40	739	0.20	1.52	0.5	↑
↓	1125	2	9.29		15.1	7.39	738	0.11	1.15	-3.5	↑
Sample	1130	2.5	8.94								

NOTES (continued)

10/22/24
Sampled @ 1130

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Ver_05

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0099 Task #: Start Date: 10/23/2024 Time: ~~1045~~ 1025
Field Personnel: B. Anstey Finish Date: 10/23/24 Time: 1115

WELL INFORMATION

Well ID: 07R
Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO Horiba U10 H 401474X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	~~0950~~ 1025	0	17.18								
Purge	~~0955~~ 1030	0.5	18.11		16.3	7.22	2548	1.46	120.05	-88.6	Rust color
↓	~~1000~~ 1035	1	18.28		16.5	7.22	2582	0.69	6.04	-86.4	Clear
	~~1005~~ 1040	1.5			16.6	7.22	2582	0.605	2.57	-85.7	↓
↓	~~1010~~ 1045	2	18.70		16.5	~~7.20~~ 7.21	2577	0.73	3.18	-78.9	↓
Sample	~~1015~~ 1050										Orange
Final	1110		19.10								

NOTES (continued)

07R @ 1050 on 10/23/24

* Water became turbid during collection

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0099 Task #: Start Date: 10/21/2024 Time: 1530
Field Personnel: Lorie Finish Date: Same Time: 1555

WELL INFORMATION

Well ID: ID
Casing ID: 2 inches

EVENT TYPE

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

YSI SERIAL NO 23J100249
W102916x

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1535		51.16								DIRTY
Purge	1540		52.33		16.1	6.84	1191	1.81	48.12	80.7	
	1545		52.91		16.0	6.85	1189	1.77	47.22	81.5	
	1550		54.28		15.9	6.99	1102	1.76	46.86	83.7	
	1555	2GAL	54.28		16.10	6.90	1097	1.70	45.55	84.2	↓

NOTES (continued)

Sample @ 1555

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra

Project Number: 0099 Task #: Start Date: 10/22/2024 Time: 0800

Field Personnel: G. Assalley Finish Date: 10/22/2024 Time: 0855

Diff GT 100 FT

WELL INFORMATION

Well ID: 16a

Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10% ~~+/- 3%~~ +/- 0.1	pH (SU) ~~+/- 0.1~~ +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% +/- 0.2	Turbidity (NTU) 10% or > 10	ORP (mV) 10% +/- 10	Visual Clarity
PRV	0810	—	10.57	—	—	—	—	—	—	—	—
	0815	0.5	13.03		12.6	7.57	1187	1.09	62.20	-142.9	Clear
	0820	1	14.01		12.6	7.57	1146	0.72	90.68	-151.7	↓
~~Purge~~	0825	1.5	15.32		12.6	7.57	1109	0.42	87.34	-152.4	
Purge	0830	2	16.04		12.6	7.57	1098	0.43	91.43	-151.7	
Purge	0835	2.5	17.34		12.6	7.58	1087	0.37	94.32	-148.9	↓
Sample	0840										
Final	0850	4	20.42								

NOTES (continued)

Sampled @ 0840 on 10/22/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

16a at 0840 on 10/22/24

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 99 Task #: Start Date: 10 / 24 2024 Time: 0850
Field Personnel: Howe Finish Date: Same Time: 0935

WELL INFORMATION

Well ID: 17
Casing ID: 2 inches

EVENT TYPE

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

YSI SERIAL NO 23J100249
U102 916X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	0855		49.90		~~12~~						RUSTY
Purge	0900		53.50		12.6	7.15	1813	80	192.10	37.7	
	0905		59.50		12.5	7.12	1812	.91	140.10	31.5	
	0910		61.90		12.4	7.12	1814	1.01	155.70	52.3	
	0915										
	0920										
	0925										
	0930										

NOTES (continued)

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

17 @ Horricane Pump.
Well went Dry At 62.20
no Sample

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0390 Task #: Start Date: 10/23/2024 Time: 1510
Field Personnel: G. Arsenault Finish Date: 10/23/24 Time: 1556

100ft Heron
U10147 4x

WELL INFORMATION

Well ID:
Casing ID: 20 inches

EVENT TYPE

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

YSI SERIAL NO
U10147 4x

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% +/- 0.2	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1515	—	15.69	—	—	—	—	—	—	—	—
Purge	1520	0.5	15.90	—	14.1	7.17	595	0.47	18.42	4.8	Clear
↓	1525	0.5	15.92		14.1	7.15	608	0.25	12.95	-11.5	↓
	1530	1	15.89		14.2	7.14	619	0.19	3.12	-20.2	
	1535	2	15.92		14.1	7.14	624	0.23	4.63	-23.8	
↓	1540	3	15.98		14.1	7.13	626	0.12	7.62	-25.8	
Sample	1545										

NOTES (continued)

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Ver 20
@ 1545 on 10/23/24

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0049 Task #: Start Date: 10/23/2024 Time: 1115
Field Personnel: Lorne Finish Date: Same Time:

WELL INFORMATION

Well ID: 21
Casing ID: 2 (inches)

EVENT TYPE

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

YSI SERIAL NO 23J100249
U102916X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1120		91.90							→	Clear
Purge	1125		93.60		14.5	7.44	626	2.69	11.89	96.3	
	1130		94.00		14.2	7.54	621	1.76	9.82	114.9	
	1135		94.20		13.9	7.58	607	1.30	9.61	128.7	
	1140		94.31		14.4	7.58	604	1.19	9.92	131.8	
	1145		94.32		14.4	7.58	605	1.19	9.82	133.0	
	1150		94.33		14.3	7.59	603	1.12	8.22	135.1	
	1155	3.56	94.35		14.2	7.60	600	1.10	7.71	137.6	

NOTES (continued)

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

21 @ 1155
21 MS @ 1210
21 MSD @ 1225

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0099 Task #: Start Date: 10/2/2024 Time: 0745
Field Personnel: Lorne Finish Date: Same Time: 0820

WELL INFORMATION

Well ID: 22
Casing ID: 2 (inches)

EVENT TYPE

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

YSI SERIAL NO 23A100249
U02916X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	0750		55.95	—							Clear
Purge	0755		57.40		12.6	7.46	711	1.68	2.76	83.5	
	0800		57.70		12.6	7.48	707	.73	2.00	81.4	
	0805		57.90		12.5	7.50	707	.66	1.98	60.4	
	0810		58.10		12.6	7.50	709	.62	0.99	59.2	
	0815		58.20		12.6	7.51	709	.60	0.42	58.7	
	0820		58.30		12.7	7.52	710	.59	0.02	58.6	

NOTES (continued)

22 @ 0820

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 2024.0099 Task #: Start Date: 10/24/2024 Time: 0730
Field Personnel: G. Astalloy Finish Date: 10/24/24 Time: 0810

WELL INFORMATION

Well ID: 34
Casing ID: 34 inches

EVENT TYPE

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

YSI SERIAL NO
10019 FB60A
41014X47

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10% +/- 0.6	pH (SU) +/- .01 +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% +/- 0.2	Turbidity (NTU) 10% >10	ORP (mV) 10% +/- 10	Visual Clarity
Pre	0735	—	15.47	—							
Purge	0740	0.5>	15.21	—	11.7	7.24	812	1.95	16.71	-102.2	Clear
↓	0745	0.5	15.34		11.8	7.21	817	0.79	30.44	-121.8	↓
	0750	1	15.47		11.9	7.21	813	0.81	30.01	-124.91	↑
↓	0755	2	15.63		11.9	7.21	814	0.71	31.43	-126.7	↓
Sampl	0800	2.5									
Final	0805	3.5	15.7								

NOTES (continued)

Ver 34 @ 0800 on 10/24/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0049 Task #: Start Date: 10/22/2024 Time: 0820
Field Personnel: Lorne Finish Date: Same Time: 0855

WELL INFORMATION

Well ID: 35D
Casing ID: 2 inches

EVENT TYPE

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

YSI SERIAL NO 23J100249
U102916X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
P/E	0825		11.10								
Purge	0830		14.70		14.3	7.42	4205	.80	88.20	157.4	Clear
	0835		17.21		14.4	7.42	4212	.64	99.30	159.2	
	0840		18.55		14.5	7.42	4217	.57	113.42	159.2	
	0845		19.02		14.5	7.42	4220	.55	114.91	158.7	
*	0850		21.02		14.6	7.43	4222	.58	116.03	155.2	
	0855	2.5 GAL	22.92		14.6	7.45	4229	.61	118.22	152.7	

NOTES (continued)

35D @ 0855

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra

Project Number: 0099 Task #: Start Date: 10/23/2024 Time: 0730

Field Personnel: G. Assalley Finish Date: 10/23/24 Time: 0820

WELL INFORMATION

Well ID: 36

Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO. ~~[illegible]~~ Horiba 100ft 41014794X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10% +/-0.1	pH (SU) +/- .01 +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% +/-0.2	Turbidity (NTU) 10%	ORP (mV) 10% +/-10	Visual Clarity
Pre	0730		15.09								
	~~0735~~										
Purge	0740	0.5>	15.09		14.9	7.49	1573	3.57	7.54	-41.4	Clear
↓	0745	0.5>	15.09		14.9	7.21	1645	0.59	6.38	-94.7	↓
↓	0750	0.5	15.09		14.7	7.23	1683	0.30	9.88	-109.9	↓
↓	0755	0.5	15.10		14.6	7.24	1720	0.22	9.17	-112.9	↓
↓	0800	1	15.15		14.7	7.24	1752	0.13	7.71	-116.2	↓
↓	0805	1.5	15.13		14.7	7.25	1754	0.12	7.32	-116.9	↓
Sample	0810	2	15.11								

NOTES (continued)

Ver-36 @ 0810 10/23/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0044 Task #: Start Date: 10/23/2024 Time: 0815
Field Personnel: G. Assadoorian Finish Date: 10/23/24 Time: 0906

WELL INFORMATION

Well ID: 37
Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO ~~[illegible]~~ 14104794x

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	0820	—	9.01	—	—	—	—	—	—	—	—
Purge	0825	2.5	9.22		14.4	7.09	1278	1.55	2.25	-103.3	Clear
	0830	0.5	9.01		14.3	7.08	1208	0.12	20.60	-136.4	
	0835	1	9.06		14.2	7.08	1207	0.06	30.72	-141.1	
	0840	1.5	9.04		14.1	7.08	1206	0.04	43.57	-144.6	
	0845	1.5	9.03		14.1	7.08	1205	0.03	50.74	-146.2	
Sample	0850										
Final	0855	2	9.03								

NOTES (continued)

@0850 Ver_37
10/23/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0049 Task #: Start Date: 10/23/2024 Time: 1300
Field Personnel: Lorne Finish Date: Same Time:

WELL INFORMATION

Well ID: 38
Casing ID: 2 (inches)

EVENT TYPE

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

YSI SERIAL NO 23J100249
U102916X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1320		8.50								clear
Purge	1325		8.50		14.4	7.17	908	.77	42.78	110.9	
	1330		8.50		14.3	7.19	907	.59	154.20	127.3	
	1335		8.50		14.2	7.19	905	.57	240.20	130.3	
	1340		8.50		14.1	7.18	907	.55	14.26	131.6	
	1345		8.50		14.1	7.18	906	.50	183.46	132.6	
	1350		8.50		14.0	7.18	906	.49	144.52	134.5	
	1355		8.50		13.5	7.19	902	.40	180.24	135.6	
	1400		8.50		13.7	7.18	902	.38	240.34	137.7	
	1405		8.50		13.6	7.18	902	.38	178.52	138.6	
	1410		8.50		13.6	7.18	903	.37	82.50	139.0	
	1415		8.50		13.7	7.18	911	.37	86.92	139.8	
	1420		8.50		13.7	7.18	909	.37	151.18	139.7	

NOTES (continued)

Took Sample at 1420

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

38 @ 1420

38 FD @ 1435

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: [redacted] 0099 Task #: Start Date: 10/24/2024 Time: 0815
Field Personnel: G. Rockwell Finish Date: 10/24/24 Time: 0855

WELL INFORMATION

Well ID: _____
Casing ID: 4 inches

EVENT TYPE

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

YSI SERIAL NO 21D1479AX [redacted] Heron 100PP

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	0815	—	6.12	—	—	—	—	—	—	—	—
Purge	0820	0.5 >	6.12	—	12.9	7.23	1007	0.47	4.09	-101.3	Clear
	0825	1	6.29		12.9	7.24	1008	0.17	13.32	-121.4	
	0830	2	7.16		12.8	7.25	1009	0.10	19.73	-128.4	
	0835	3	7.24		12.9	7.25	1009	0.08	4.94	-131.4	
	0840	3.5	7.12		12.8	7.24	1009	0.06	4.14	-133.9	
	0845	4			12.8	7.25	1009	0.05	4.40	-136.2	
Sample	0850	4.5	7.21								

NOTES (continued)

VK_41 @ 0850 on 10/24/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0099 Task #: Start Date: 10/22/2024 Time: 1405
Field Personnel: Lorne Finish Date: Same Time:

WELL INFORMATION

Well ID: 42
Casing ID: 2 (inches)

EVENT TYPE

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

YSI SERIAL NO 23J100249
U102916X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1410		26.30								Clear
Purge	1415		26.95		12.5	7.63	864	2.79	18.80	120.5	
	1420		26.96		11.9	7.67	860	1.47	14.26	146.0	
	1425		26.96		11.9	7.66	857	1.31	10.55	147.0	
	1430		26.96		11.9	7.66	857	1.29	9.82	146.6	
	1435		26.96		11.8	7.66	858	1.24	8.93	145.5	
	1440	4GAL	26.96		11.8	7.66	857	1.22	7.19	145.0	

NOTES (continued)

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

53

42 @ 1440

42MS @ 1455

42MSD @ 1510

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra

Project Number: 2024.3344 Task #: Start Date: 10/22/2024 Time: 1520

Field Personnel: G. Assaiante Finish Date: 10/22/24 Time: 1610

Heron 10 ft

WELL INFORMATION

Well ID: 43

Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO 41014744

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10% +/- 0.1	pH (SU) +/- .01 +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% +/-0.2	Turbidity (NTU) 10%	ORP (mV) 10% +/-10	Visual Clarity
Pre	1520	—	16.52	—	—	—	—	—	—	—	—
Purge	1525	0.5	17.66		13.2	7.16	1014	1.59	5.60	-89.8	Clear
	1530	0.5	18.10		12.8	7.27	1010	0.41	20.23	-125.5	"
	1535	"	18.34		12.7	7.30	1001	0.22	35.21	-137.3	"
	1540	1.5	18.41		12.7	7.31	994	0.15	8.21	-143.0	"
	1545	2	18.51		12.7	7.32	987	0.10	6.33	-146.7	"
	1550	2.5			12.6	7.32	987	0.09	8.95	-148.4	"
Sample	1555										
Sample	1600										
End	1605	3.5	18.09	—	—	—	—	—	—	—	—

NOTES (continued)

Ver_43 @ 1555 on 10/22/24

Ver_43FD @ 1600 on 10/22/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0099 Task #: Start Date: 10/22/2024 Time: 1300
Field Personnel: Lorne Finish Date: Same Time: 1325

WELL INFORMATION

Well ID: 705
Casing ID: 2" (inches)

EVENT TYPE

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

YSI SERIAL NO 23J100249
U10291pX

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10% +- 0.1	pH (SU) +/- .01 +- .1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) ~~10%~~ +- 0.2	Turbidity (NTU) 10% >10	ORP (mV) 10% +- 10	Visual Clarity
Pre	1300		15.45	—						→	Clear
Purge	1305		15.50		14.1	7.11	1272	.68	41.39	50.1	
	1310		15.50		14.0	7.11	1270	.51	26.10	48.5	
	1315		15.50		14.0	7.12	1270	.50	25.10	47.2	
	1320		15.50		13.9	7.12	1269	.48	27.30	46.6	
	1325		15.50		13.9	7.12	1269	.46	26.20	45.1	
	1330	2.5GAL									

NOTES (continued)

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

20

705 @ 1325

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 6094 Task #: Start Date: 10/22/2024 Time: 1215
Field Personnel: Lorne Finish Date: Lorne Time:

WELL INFORMATION

Well ID: 70D
Casing ID: 2 (inches)

EVENT TYPE

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

YSI SERIAL NO 23J100247
U102 9160X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1220		32.55								Clear
Purge	1225		35.33		13.9	7.11	3290	1.57	58.72	23.2	
	1230		36.65		13.8	7.08	3251	1.10	51.75	24.8	
	1235		37.35		13.8	7.02	3199	1.07	60.97	33.1	
	1240		38.19		13.7	7.00	2992	1.12	75.91	39.9	
	1245		39.20		13.7	6.98	2861	1.22	87.30	42.2	
	1250	3Gal	40.20		13.7	6.97	2777	1.39	90.63	49.1	✓

NOTES (continued)

70D @ 1250

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

45

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0090 Task #: Start Date: 10/23/2024 Time: 0730
Field Personnel: Lorne Finish Date: SAME Time:

WELL INFORMATION

Well ID: 101 &
Casing ID: 2 (inches)

EVENT TYPE

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

YSI SERIAL NO 23510c249
U10291LOX

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	0735		108.91								Clear
Purge	0740		108.99		13.6	7.21	976	2.44	21.89	65.6	
	0745		111.20		13.2	7.51	862	.80	113.8	114.1	
	0750		111.92		13.2	7.52	857	.64	159.40	124.0	
	0755		112.30		13.3	7.52	850	.64	163.85	129.3	
	0800		113.42		13.4	7.54	845	.63	355.4	132.8	
	0805		113.60		13.5	7.54	840	.59	403.91	135.1	
	0810		113.65		13.5	7.54	835	.55	500.2	137.1	
	0815		113.66		13.5	7.55	835	.54	771.0	138.2	
	0820		113.69		13.6	7.55	831	.53	33.51	140.3	
	0825		113.72		13.6	7.55	831	.51	94.40	141.6	
	0830		113.74		13.7	7.55	812	.50	210.20	143.1	
	0835	5 GAL	113.80		13.7	7.55	814	.49	320.40	143.9	✓

NOTES (continued)

1 Hr. TAKE SAMPLE

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

101 & @ 0835

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
Project Number: 0099 Task #: Start Date: 10 24 2024 Time: 0935
Field Personnel: Lorne Finish Date: Same 3 dbn 110824 Time:

WELL INFORMATION

Well ID: 103
Casing ID: 2 inches

EVENT TYPE

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

YSI SERIAL NO 23J100249
U1029126X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	0940		130.90								Clear
Purge	0945		133.10		14.4	7.09	1866	5.61	106.04	87.4	
	0950		133.90		14.7	7.07	1878	4.89	86.14	91.3	
	0955		134.00		15.0	7.07	1881	4.83	40.89	95.8	
	1000		134.10		15.0	7.07	1880	4.79	25.85	97.5	
	1005		134.75		15.0	7.07	1881	4.80	16.75	99.7	
	1010		135.25		14.9	7.07	1882	4.82	10.77	100.0	
	1015		135.72		14.9	7.07	1881	4.83	8.89	101.7	
	1020	4 GAL	136.10		15.0	7.07	1882	4.84	7.72	102.9	

NOTES (continued)

103 & @ 1020

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra

Project Number: 0099 Task #: Start Date: 10/22/2024 Time: 1115

Field Personnel: Corne Finish Date: Same Time: 1210

WELL INFORMATION

Well ID: MED1

Casing ID: 2 (inches)

EVENT TYPE

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

YSI SERIAL NO 23J100249
U102916X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) ~~10%~~ +- 0.1	pH (SU) +/- .01 +- .1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% +-0.2	Turbidity (NTU) 10% >10	ORP (mV) 10% +- 10	Visual Clarity
Pre	1120		4.69								Clear
Purge	1125		4.76		17.8	7.63	1995	.89	17.39	173.7	
	1130		4.78		18.5	7.63	2001	.76	10.91	180.3	
	1135		4.80		18.6	7.69	2011	.60	8.48	193.2	
	1140		4.80		18.6	7.70	2020	.58	8.02	199.9	
	1145		4.80		18.5	7.70	2025	.47	7.70	202.2	
	1150	3Gal	4.80		18.5	7.70	2027	.45	7.01	206.7	

NOTES (continued)

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Med 1 @ 1150

Med 1 FD @ 1210

13

SAR-4: Plant Sampling and Analysis Request
Event: VER-24Q4
Date Generated: 09/19/2024
All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Serial Number	Does Data Logger Serial No Match?	WL Reading on Transducer (ft)	Data downloaded?	Batt (H/M/L/R)	Comments	Initials
02	VER_002	10/21	1250	19.49	21863664	—	—	—	—	No transducer	
03R	VER_003R	10/21	1300	8.92	21863701	NO		Y	H	Battery replaced	✱
04	VER_004	10/21	1330	~~7.80~~ 8.81	21615494	Y	582.34	Y	H	8.84 DTW	
05	VER_005	10/21	1340	~~17.35~~	21863665	Yes	587.5015	Y	H	8.80 DTW	
07R	VER_007R	10/21	1250	17.35	21863672	—	—	—	—	No transducer	
08R	VER_008R	10/21	1300	Dry	21615142	NO		Y	H	battery replaced	✱
10	VER_010	10/21	1010	51.88	NO 21629313	21921674	608.6323	Yes	high	Wrong #	
101	VER_101&	10/21	0915	108.55	21739729	Y	598.0711	Y	H		
103	VER_103&	10/21	1130	131.22	21615619	Yes	589.4877	Y	H		
16A	VER_016A	10/21	1045	9.51	TBD	—	—	—	—	no transducer	
17	VER_017	10/21	1275	40.22	21615573	—	—	—	—	no transducer	
20	VER_020	10/21	1325	15.80	21863671	Yes	576.9014	Y	H		
21	VER_021	10/21	1120	42.02	21615622	Y	581.3869	Y	H		
22	VER_022	10/21	1010	[redacted]	21739726	Yes	602.8948	Y	Med.	DTW: 56.02	
34	VER_034	10/21	1330	13.47	21615519	Yes	578.519	X	H		
35D	VER_035&D	10/21	1055	11.69	TBD	—	—	—	—	No transducer	
36	VER_036	10/21	1240	15.10	21863668	—	—	—	—	No transducer	
37	VER_037	10/21	1240	9.20	21863670	—	—	—	—	No transducer	
38	VER_038	10/21	1315	8.39	21863674	Y	583.9873	Y	H		
41	VER_041	10/21	1305	7.05	21615517	Y	580.6167	Y	H		
42	VER_042	10/21	1200	26.92	21863663	Y	533.5914	Y	H	batteries replaced	✱
43	VER_043	10/21	1205	16.88	21615627	Yes	591.3798	Y	M		
70D	VER_070&D	10/21	1020	33.78	21615620	Yes	560.9757	Y	H		
70S	VER_070#S	10/21	1020	15.46	21615597	NO	608.6323	NO	H	*21921674 ←	
71D	VER_071&D	10/21	1035	Dry	21863675	Yes	544.1344	Y	M	Dry	
71S	VER_071#S	10/21	1035	Dry	21615599	Yes	567.7363	Y	H	Dry	
ND3	VER_ND3	10/21	1220	Dry	21863702	Yes	594.1727	Y	H	Dry	
NED1	VER_NED1	10/21	1105	4.72	TBD	—	—	—	—	No transducer	
OED1	VER_OED1	10/21	1230	Dry	21739731	Yes	588.8374	Y	high	Dry	
RG01	VER_RG01	[redacted]			21628686	—	—	—	—	No transducer	
SG01	VER_YSG01	10/21	0945	17.48	21615604	Yes	672.6388	Yes	high		

Wrong #, couldn't download batteries replaced

SAR-3: Plant Sampling and Analysis Request

Event: VER-24Q4

Date Generated: 09/19/2024

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

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
101S	VER_101#S	10/21	0915	59.21		
102	VER_102&	10/21	0920	125.24		
102S	VER_102#S	10/21	0920	72.57		
103S	VER_103#S	~~0~~10/21	1130	58.26		
104	VER_104&	10/21	0925	~~100.78~~	126.78	
104S	VER_104#S	10/21	0925	72.95		
105	VER_105&	〃	0935	120.94		
105S	VER_105#S	10/21	0935	70.89		
16B	VER_016!B	〃	1045	Dry	~~Dry~~	
23	VER_023	〃	1115	21.89		
24	VER_024	〃	1115	23.63		
25	VER_025	10/21	0955	15.42		
35S	VER_035#S	〃	1055	Dry	~~Dry~~	
~~XSG01~~	~~VER_XSG01~~	↓				
	VER_001	10/21	1150	78.87		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/22/24 16:42:52

JOB DESCRIPTION

VER-24Q4
VER_000_RAD

JOB NUMBER

500-258836-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

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.

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Authorization

Generated
11/22/24 16:42:52

Authorized for release by
Dirk Nelson, Project Management Assistant II
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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 36
QC Association 37
QC Sample Results 39
Chronicle 45
Certification Summary 52
Chain of Custody 53
Receipt Checklists 67
Tracer Carrier Summary 70

Job Narrative
500-258836-2

Receipt
The samples were received on 10/22/24 12:47. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 2.9º C, 3.4º C, 3.6º C, 3.6º C, 4.1º C, 4.1º C, 4.2º C, 5.1º C and 5.6º C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Sample #1- COC does not list sample date/time. Logged per container label (10/21, no sample time listed).

Received the bottles for sample 9 with the ID of 035&D, logged per COC. Received sample 16 with nothing marked on the COC, Bottles are different from sample 15.
Affected samples: VER_035&D (500-258836-9) and VER_NED1_FD (500-258836-16)

Per client - Sample #9 is 035&D. - Email attached with COCs.
Sample #16 - Bottles substitued from VER_010_FD, as that well did not have enough volume to supply dup. Logged in analyses to match parent sample (Sample #15).

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC) Sample #29 COC is checked off for sample VER_35&D however all container labels list VER_041. Logged sample as VER_041 (logged 041 parameters).

RAD
Method 904.0: Radium 228 Batch 685738: The detection goal was not met for the following sample due to a reduced sample volume used in prep attributed to the presence of matrix interferences. VER_002 (500-258836-17) and VER_101& (500-258836-19)

Methods 904.0, 9320: Radium 228 Batch 685743: The detection goal was not met for the following sample due to a reduced sample volume used in prep attributed to the presence of matrix interferences. VER_003R (500-258836-4)

Method 904.0: Radium-228 prep batch 160-685748: The detection goal was not met for the following sample due to the reduced sample volume attributed to the presence of matrix interferences: VER_034 (500-258836-28) . Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 prep batch 160-685748: The matrix spike duplicate (MSD) recoveries for preparation batch 160-685748 and analytical batch 160-689274 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. VER_021_MSD (500-258836-22[MSD])

Method 904.0: Radium-228 prep batch 160-685748: The following samples have an RER (replicate error ratio) result outside of the acceptance criteria of 1 for Ra-228. Duplicate precision is demonstrated by acceptable relative percent difference (RPD), within the limit of 40%. The data have been reported with this narrative.
VER_021_MSD (500-258836-22[MSD])

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

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_010 — Lab Sample ID: 500-258836-1

No Detections.

Client Sample ID: VER_FB — Lab Sample ID: 500-258836-2

No Detections.

Client Sample ID: VER_EB — Lab Sample ID: 500-258836-3

No Detections.

Client Sample ID: VER_003R — Lab Sample ID: 500-258836-4

No Detections.

Client Sample ID: VER_003R_FD — Lab Sample ID: 500-258836-5

No Detections.

Client Sample ID: VER_004 — Lab Sample ID: 500-258836-6

No Detections.

Client Sample ID: VER_005 — Lab Sample ID: 500-258836-7

No Detections.

Client Sample ID: VER_016A — Lab Sample ID: 500-258836-8

No Detections.

Client Sample ID: VER_035&D — Lab Sample ID: 500-258836-9

No Detections.

Client Sample ID: VER_042 — Lab Sample ID: 500-258836-10

No Detections.

Client Sample ID: VER_043 — Lab Sample ID: 500-258836-11

No Detections.

Client Sample ID: VER_043_FD — Lab Sample ID: 500-258836-12

No Detections.

Client Sample ID: VER_070&D — Lab Sample ID: 500-258836-13

No Detections.

Client Sample ID: VER_070#S — Lab Sample ID: 500-258836-14

No Detections.

Client Sample ID: VER_002 — Lab Sample ID: 500-258836-17

No Detections.

Client Sample ID: VER_007R — Lab Sample ID: 500-258836-18

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_101& — Lab Sample ID: 500-258836-19

No Detections.

Client Sample ID: VER_103& — Lab Sample ID: 500-258836-20

No Detections.

Client Sample ID: VER_020 — Lab Sample ID: 500-258836-21

No Detections.

Client Sample ID: VER_021 — Lab Sample ID: 500-258836-22

No Detections.

Client Sample ID: VER_036 — Lab Sample ID: 500-258836-23

No Detections.

Client Sample ID: VER_037 — Lab Sample ID: 500-258836-24

No Detections.

Client Sample ID: VER_038 — Lab Sample ID: 500-258836-25

No Detections.

Client Sample ID: VER_038_FD — Lab Sample ID: 500-258836-26

No Detections.

Client Sample ID: VER_022 — Lab Sample ID: 500-258836-27

No Detections.

Client Sample ID: VER_034 — Lab Sample ID: 500-258836-28

No Detections.

Client Sample ID: VER_041 — Lab Sample ID: 500-258836-29

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
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-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-258836-1	VER_010	Water	10/21/24 15:55	10/22/24 12:47
500-258836-2	VER_FB	Water	10/22/24 07:00	10/22/24 12:47
500-258836-3	VER_EB	Water	10/22/24 07:30	10/22/24 12:47
500-258836-4	VER_003R	Water	10/22/24 13:00	10/23/24 12:00
500-258836-5	VER_003R_FD	Water	10/22/24 13:05	10/23/24 12:00
500-258836-6	VER_004	Water	10/22/24 12:15	10/23/24 12:00
500-258836-7	VER_005	Water	10/22/24 11:30	10/23/24 12:00
500-258836-8	VER_016A	Water	10/22/24 08:40	10/23/24 12:00
500-258836-9	VER_035&D	Water	10/22/24 08:55	10/23/24 12:00
500-258836-10	VER_042	Water	10/22/24 15:10	10/23/24 12:00
500-258836-11	VER_043	Water	10/22/24 15:55	10/23/24 12:00
500-258836-12	VER_043_FD	Water	10/22/24 16:00	10/23/24 12:00
500-258836-13	VER_070&D	Water	10/22/24 12:50	10/23/24 12:00
500-258836-14	VER_070#S	Water	10/22/24 13:25	10/23/24 12:00
500-258836-17	VER_002	Water	10/23/24 10:10	10/24/24 11:15
500-258836-18	VER_007R	Water	10/23/24 10:50	10/24/24 11:15
500-258836-19	VER_101&	Water	10/23/24 08:35	10/24/24 11:15
500-258836-20	VER_103&	Water	10/23/24 10:20	10/24/24 11:15
500-258836-21	VER_020	Water	10/23/24 15:45	10/24/24 11:15
500-258836-22	VER_021	Water	10/23/24 11:55	10/24/24 11:15
500-258836-23	VER_036	Water	10/23/24 08:10	10/24/24 11:15
500-258836-24	VER_037	Water	10/23/24 08:50	10/24/24 11:15
500-258836-25	VER_038	Water	10/23/24 14:20	10/24/24 11:15
500-258836-26	VER_038_FD	Water	10/23/24 14:35	10/24/24 11:15
500-258836-27	VER_022	Water	10/24/24 08:20	10/24/24 12:30
500-258836-28	VER_034	Water	10/24/24 08:00	10/24/24 12:30
500-258836-29	VER_041	Water	10/24/24 08:50	10/24/24 12:30

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_010

Date Collected: 10/21/24 15:55
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-1

Matrix: Water

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	**0.191**		0.122	0.123	1.00	0.162	pCi/L	10/25/24 08:24	11/18/24 21:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.8*		*30 - 110*	*10/25/24 08:24*	*11/18/24 21:42*	*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	0.291	U	0.336	0.337	1.00	0.551	pCi/L	10/25/24 08:28	11/15/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.8*		*30 - 110*	*10/25/24 08:28*	*11/15/24 12:14*	*1*
Y Carrier	*81.1*		*30 - 110*	*10/25/24 08:28*	*11/15/24 12:14*	*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	0.482	U	0.357	0.359	5.00	0.551	pCi/L		11/22/24 15:46	1

Client Sample ID: VER_FB

Date Collected: 10/22/24 07:00
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-2

Matrix: Water

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	0.0310	U	0.0831	0.0831	1.00	0.155	pCi/L	10/25/24 08:24	11/18/24 21:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.1*		*30 - 110*	*10/25/24 08:24*	*11/18/24 21:42*	*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	0.118	U	0.265	0.265	1.00	0.468	pCi/L	10/25/24 08:28	11/15/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.1*		*30 - 110*	*10/25/24 08:28*	*11/15/24 12:14*	*1*
Y Carrier	*89.0*		*30 - 110*	*10/25/24 08:28*	*11/15/24 12:14*	*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	0.149	U	0.278	0.278	5.00	0.468	pCi/L		11/22/24 15:46	1

Client Sample ID: VER_EB

Date Collected: 10/22/24 07:30
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-3

Matrix: Water

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	-0.0747	U	0.0664	0.0667	1.00	0.180	pCi/L	10/25/24 08:24	11/18/24 21:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*10/25/24 08:24*	*11/18/24 21:42*	*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	-0.161	U	0.322	0.322	1.00	0.643	pCi/L	10/25/24 08:28	11/15/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*10/25/24 08:28*	*11/15/24 12:14*	*1*
Y Carrier	*83.0*		*30 - 110*	*10/25/24 08:28*	*11/15/24 12:14*	*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	0.000	U	0.329	0.329	5.00	0.643	pCi/L		11/22/24 15:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_003R

Date Collected: 10/22/24 13:00
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-4

Matrix: Water

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	**0.693**		0.359	0.365	1.00	0.460	pCi/L	10/29/24 08:31	11/20/24 21:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*10/29/24 08:31*	*11/20/24 21:35*	*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	1.51	U G	1.16	1.17	1.00	1.82	pCi/L	10/29/24 08:35	11/18/24 14:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*10/29/24 08:35*	*11/18/24 14:06*	*1*
Y Carrier	*77.0*		*30 - 110*	*10/29/24 08:35*	*11/18/24 14:06*	*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	**2.21**		1.21	1.23	5.00	1.82	pCi/L		11/22/24 15:45	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_003R_FD

Date Collected: 10/22/24 13:05
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-5

Matrix: Water

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	0.478		0.201	0.206	1.00	0.210	pCi/L	10/29/24 08:22	11/21/24 16:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*10/29/24 08:22*	*11/21/24 16:58*	*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	1.08		0.650	0.658	1.00	0.957	pCi/L	10/29/24 08:25	11/18/24 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:17*	*1*
Y Carrier	*73.3*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	1.55		0.680	0.689	5.00	0.957	pCi/L		11/22/24 12:07	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_004

Date Collected: 10/22/24 12:15
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-6

Matrix: Water

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	0.369		0.149	0.153	1.00	0.158	pCi/L	10/29/24 08:22	11/21/24 16:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*10/29/24 08:22*	*11/21/24 16:58*	*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	1.07		0.471	0.481	1.00	0.634	pCi/L	10/29/24 08:25	11/18/24 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:17*	*1*
Y Carrier	*78.1*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	1.44		0.494	0.505	5.00	0.634	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_005

Date Collected: 10/22/24 11:30
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-7

Matrix: Water

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	0.210		0.124	0.126	1.00	0.161	pCi/L	10/29/24 08:22	11/21/24 17:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*30 - 110*	*10/29/24 08:22*	*11/21/24 17:04*	*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	0.815		0.427	0.434	1.00	0.602	pCi/L	10/29/24 08:25	11/18/24 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:17*	*1*
Y Carrier	*76.6*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	1.03		0.445	0.452	5.00	0.602	pCi/L		11/22/24 12:07	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_016A

Date Collected: 10/22/24 08:40
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-8

Matrix: Water

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	0.593		0.221	0.228	1.00	0.235	pCi/L	10/29/24 08:22	11/21/24 17:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*10/29/24 08:22*	*11/21/24 17:04*	*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	1.09		0.547	0.556	1.00	0.750	pCi/L	10/29/24 08:25	11/18/24 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:17*	*1*
Y Carrier	*76.6*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	1.68		0.590	0.601	5.00	0.750	pCi/L		11/22/24 12:07	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_035&D

Date Collected: 10/22/24 08:55
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-9

Matrix: Water

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	0.208		0.143	0.145	1.00	0.207	pCi/L	10/29/24 08:22	11/21/24 17:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*30 - 110*	*10/29/24 08:22*	*11/21/24 17:04*	*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	0.558		0.374	0.378	1.00	0.557	pCi/L	10/29/24 08:25	11/18/24 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:17*	*1*
Y Carrier	*79.6*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	0.767		0.400	0.405	5.00	0.557	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_042

Date Collected: 10/22/24 15:10
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-10

Matrix: Water

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	0.283	U	0.199	0.201	1.00	0.284	pCi/L	10/29/24 08:22	11/20/24 08:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*10/29/24 08:22*	*11/20/24 08:25*	*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	0.0679	U	0.388	0.388	1.00	0.717	pCi/L	10/29/24 08:25	11/18/24 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:17*	*1*
Y Carrier	*76.6*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	0.351	U	0.436	0.437	5.00	0.717	pCi/L		11/22/24 12:07	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_043

Date Collected: 10/22/24 15:55
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-11

Matrix: Water

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	0.242	U	0.188	0.190	1.00	0.272	pCi/L	10/29/24 08:22	11/20/24 08:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*10/29/24 08:22*	*11/20/24 08:25*	*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	0.395	U	0.423	0.425	1.00	0.687	pCi/L	10/29/24 08:25	11/18/24 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:17*	*1*
Y Carrier	*83.0*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	0.637	U	0.463	0.466	5.00	0.687	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_043_FD

Date Collected: 10/22/24 16:00
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-12

Matrix: Water

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		0.245	0.251	1.00	0.280	pCi/L	10/29/24 08:22	11/20/24 08:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.7*		*30 - 110*	*10/29/24 08:22*	*11/20/24 08:25*	*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	0.757		0.482	0.487	1.00	0.700	pCi/L	10/29/24 08:25	11/18/24 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.7*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:17*	*1*
Y Carrier	*79.3*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	1.33		0.541	0.548	5.00	0.700	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_070&D

Date Collected: 10/22/24 12:50
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-13

Matrix: Water

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	0.424		0.202	0.206	1.00	0.239	pCi/L	10/29/24 08:22	11/20/24 08:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*72.9*		*30 - 110*	*10/29/24 08:22*	*11/20/24 08:25*	*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	1.11		0.549	0.558	1.00	0.768	pCi/L	10/29/24 08:25	11/18/24 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*72.9*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:18*	*1*
Y Carrier	*78.9*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	1.53		0.585	0.595	5.00	0.768	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_070#S

Date Collected: 10/22/24 13:25
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-14

Matrix: Water

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	-0.0274	U	0.0873	0.0874	1.00	0.196	pCi/L	10/29/24 08:22	11/20/24 08:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*30 - 110*	*10/29/24 08:22*	*11/20/24 08:26*	*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	0.225	U	0.326	0.327	1.00	0.551	pCi/L	10/29/24 08:25	11/18/24 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:18*	*1*
Y Carrier	*78.5*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	0.225	U	0.337	0.338	5.00	0.551	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_002

Date Collected: 10/23/24 10:10
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-17

Matrix: Water

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	0.133	U	0.222	0.223	1.00	0.385	pCi/L	10/29/24 08:22	11/20/24 08:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.3*		*30 - 110*	*10/29/24 08:22*	*11/20/24 08:26*	*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	1.08	U G	0.750	0.757	1.00	1.15	pCi/L	10/29/24 08:25	11/18/24 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.3*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:18*	*1*
Y Carrier	*77.8*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	**1.21**		0.782	0.789	5.00	1.15	pCi/L		11/22/24 12:07	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_007R

Date Collected: 10/23/24 10:50
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-18

Matrix: Water

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	0.109	U	0.135	0.136	1.00	0.224	pCi/L	10/29/24 08:22	11/20/24 08:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*30 - 110*	*10/29/24 08:22*	*11/20/24 08:26*	*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	**1.78**		0.511	0.536	1.00	0.549	pCi/L	10/29/24 08:25	11/18/24 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:18*	*1*
Y Carrier	*80.7*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	**1.88**		0.529	0.553	5.00	0.549	pCi/L		11/22/24 12:07	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_101&

Date Collected: 10/23/24 08:35
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-19

Matrix: Water

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	0.363		0.245	0.247	1.00	0.342	pCi/L	10/29/24 08:22	11/20/24 08:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*72.4*		*30 - 110*	*10/29/24 08:22*	*11/20/24 08:26*	*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	1.76	G	0.830	0.846	1.00	1.18	pCi/L	10/29/24 08:25	11/18/24 12:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*72.4*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:18*	*1*
Y Carrier	*80.0*		*30 - 110*	*10/29/24 08:25*	*11/18/24 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	2.12		0.865	0.881	5.00	1.18	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_103&

Date Collected: 10/23/24 10:20
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-20

Matrix: Water

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	0.219		0.149	0.150	1.00	0.213	pCi/L	10/29/24 08:22	11/20/24 21:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*10/29/24 08:22*	*11/20/24 21:19*	*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	0.806		0.427	0.434	1.00	0.607	pCi/L	10/29/24 08:25	11/18/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:14*	*1*
Y Carrier	*78.1*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:14*	*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	1.03		0.452	0.459	5.00	0.607	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_020

Date Collected: 10/23/24 15:45
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-21

Matrix: Water

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	0.0945	U	0.116	0.116	1.00	0.191	pCi/L	10/29/24 08:22	11/20/24 21:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*10/29/24 08:22*	*11/20/24 21:19*	*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	-0.0660	U	0.282	0.282	1.00	0.546	pCi/L	10/29/24 08:25	11/18/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:14*	*1*
Y Carrier	*82.2*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:14*	*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	0.0945	U	0.305	0.305	5.00	0.546	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_021

Date Collected: 10/23/24 11:55
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-22

Matrix: Water

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	0.134	U	0.108	0.108	1.00	0.148	pCi/L	10/29/24 08:37	11/21/24 21:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.0*		*30 - 110*	*10/29/24 08:37*	*11/21/24 21:30*	*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	0.194	U F	0.349	0.349	1.00	0.601	pCi/L	10/29/24 08:40	11/19/24 12:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.0*		*30 - 110*	*10/29/24 08:40*	*11/19/24 12:01*	*1*
Y Carrier	*86.4*		*30 - 110*	*10/29/24 08:40*	*11/19/24 12:01*	*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	0.327	U	0.365	0.365	5.00	0.601	pCi/L		11/22/24 16:02	1

Client Sample ID: VER_036

Date Collected: 10/23/24 08:10
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-23

Matrix: Water

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	0.247		0.136	0.138	1.00	0.175	pCi/L	10/29/24 08:22	11/20/24 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*10/29/24 08:22*	*11/20/24 21:20*	*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	0.640		0.373	0.377	1.00	0.544	pCi/L	10/29/24 08:25	11/18/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:15*	*1*
Y Carrier	*83.4*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:15*	*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	0.887		0.397	0.401	5.00	0.544	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_037

Date Collected: 10/23/24 08:50
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-24

Matrix: Water

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	**0.781**		0.252	0.261	1.00	0.225	pCi/L	10/29/24 08:22	11/20/24 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*10/29/24 08:22*	*11/20/24 21:20*	*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	0.703	U	0.510	0.515	1.00	0.775	pCi/L	10/29/24 08:25	11/18/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:15*	*1*
Y Carrier	*78.5*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:15*	*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	**1.48**		0.569	0.577	5.00	0.775	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_038

Date Collected: 10/23/24 14:20
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-25

Matrix: Water

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	0.567		0.227	0.233	1.00	0.243	pCi/L	10/29/24 08:22	11/20/24 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.2*		*30 - 110*	*10/29/24 08:22*	*11/20/24 21:20*	*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	0.988		0.520	0.528	1.00	0.726	pCi/L	10/29/24 08:25	11/18/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.2*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:15*	*1*
Y Carrier	*81.5*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:15*	*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	1.56		0.567	0.577	5.00	0.726	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_038_FD

Date Collected: 10/23/24 14:35
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-26

Matrix: Water

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	0.386		0.207	0.210	1.00	0.263	pCi/L	10/29/24 08:22	11/20/24 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*30 - 110*	*10/29/24 08:22*	*11/20/24 21:20*	*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	1.03		0.540	0.548	1.00	0.752	pCi/L	10/29/24 08:25	11/18/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:15*	*1*
Y Carrier	*80.7*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:15*	*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	1.42		0.578	0.587	5.00	0.752	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_022

Date Collected: 10/24/24 08:20
Date Received: 10/24/24 12:30

Lab Sample ID: 500-258836-27

Matrix: Water

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	**0.517**		0.190	0.195	1.00	0.195	pCi/L	10/29/24 08:22	11/20/24 21:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.1*		*30 - 110*	*10/29/24 08:22*	*11/20/24 21:20*	*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	0.584	U	0.395	0.398	1.00	0.591	pCi/L	10/29/24 08:25	11/18/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.1*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:15*	*1*
Y Carrier	*83.0*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:15*	*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	**1.10**		0.438	0.443	5.00	0.591	pCi/L		11/22/24 12:07	1

Client Sample ID: VER_034

Date Collected: 10/24/24 08:00
Date Received: 10/24/24 12:30

Lab Sample ID: 500-258836-28

Matrix: Water

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	**0.506**		0.279	0.283	1.00	0.351	pCi/L	10/29/24 08:37	11/21/24 21:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*58.2*		*30 - 110*	*10/29/24 08:37*	*11/21/24 21:38*	*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	0.235	U F G	0.631	0.632	1.00	1.12	pCi/L	10/29/24 08:40	11/19/24 12:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*58.2*		*30 - 110*	*10/29/24 08:40*	*11/19/24 12:01*	*1*
Y Carrier	*80.0*		*30 - 110*	*10/29/24 08:40*	*11/19/24 12:01*	*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	0.741	U	0.690	0.692	5.00	1.12	pCi/L		11/22/24 16:02	1

Client Sample ID: VER_041

Date Collected: 10/24/24 08:50
Date Received: 10/24/24 12:30

Lab Sample ID: 500-258836-29

Matrix: Water

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	0.600		0.244	0.250	1.00	0.273	pCi/L	10/29/24 08:37	11/21/24 21:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*10/29/24 08:37*	*11/21/24 21:38*	*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	F	0.493	0.499	1.00	0.718	pCi/L	10/29/24 08:40	11/19/24 12:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*10/29/24 08:40*	*11/19/24 12:01*	*1*
Y Carrier	*86.0*		*30 - 110*	*10/29/24 08:40*	*11/19/24 12:01*	*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	1.40		0.550	0.558	5.00	0.718	pCi/L		11/22/24 16:02	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Qualifiers

Rad

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
F1	MS and/or MSD recovery exceeds control limits.
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.
☼	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

Rad

Prep Batch: 685118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total/NA	Water	PrecSep-21	
500-258836-2	VER_FB	Total/NA	Water	PrecSep-21	
500-258836-3	VER_EB	Total/NA	Water	PrecSep-21	
MB 160-685118/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-685118/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 685120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-1	VER_010	Total/NA	Water	PrecSep_0	
500-258836-2	VER_FB	Total/NA	Water	PrecSep_0	
500-258836-3	VER_EB	Total/NA	Water	PrecSep_0	
MB 160-685120/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-685120/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 685737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-5	VER_003R_FD	Total/NA	Water	PrecSep-21	
500-258836-6	VER_004	Total/NA	Water	PrecSep-21	
500-258836-7	VER_005	Total/NA	Water	PrecSep-21	
500-258836-8	VER_016A	Total/NA	Water	PrecSep-21	
500-258836-9	VER_035&D	Total/NA	Water	PrecSep-21	
500-258836-10	VER_042	Total/NA	Water	PrecSep-21	
500-258836-11	VER_043	Total/NA	Water	PrecSep-21	
500-258836-12	VER_043_FD	Total/NA	Water	PrecSep-21	
500-258836-13	VER_070&D	Total/NA	Water	PrecSep-21	
500-258836-14	VER_070#S	Total/NA	Water	PrecSep-21	
500-258836-17	VER_002	Total/NA	Water	PrecSep-21	
500-258836-18	VER_007R	Total/NA	Water	PrecSep-21	
500-258836-19	VER_101&	Total/NA	Water	PrecSep-21	
500-258836-20	VER_103&	Total/NA	Water	PrecSep-21	
500-258836-21	VER_020	Total/NA	Water	PrecSep-21	
500-258836-23	VER_036	Total/NA	Water	PrecSep-21	
500-258836-24	VER_037	Total/NA	Water	PrecSep-21	
500-258836-25	VER_038	Total/NA	Water	PrecSep-21	
500-258836-26	VER_038_FD	Total/NA	Water	PrecSep-21	
500-258836-27	VER_022	Total/NA	Water	PrecSep-21	
MB 160-685737/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-685737/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-258836-10 MS	VER_042_MS	Total/NA	Water	PrecSep-21	
500-258836-10 MSD	VER_042_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 685738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-5	VER_003R_FD	Total/NA	Water	PrecSep_0	
500-258836-6	VER_004	Total/NA	Water	PrecSep_0	
500-258836-7	VER_005	Total/NA	Water	PrecSep_0	
500-258836-8	VER_016A	Total/NA	Water	PrecSep_0	
500-258836-9	VER_035&D	Total/NA	Water	PrecSep_0	
500-258836-10	VER_042	Total/NA	Water	PrecSep_0	
500-258836-11	VER_043	Total/NA	Water	PrecSep_0	
500-258836-12	VER_043_FD	Total/NA	Water	PrecSep_0	

Rad (Continued)

Prep Batch: 685738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-13	VER_070&D	Total/NA	Water	PrecSep_0	
500-258836-14	VER_070#S	Total/NA	Water	PrecSep_0	
500-258836-17	VER_002	Total/NA	Water	PrecSep_0	
500-258836-18	VER_007R	Total/NA	Water	PrecSep_0	
500-258836-19	VER_101&	Total/NA	Water	PrecSep_0	
500-258836-20	VER_103&	Total/NA	Water	PrecSep_0	
500-258836-21	VER_020	Total/NA	Water	PrecSep_0	
500-258836-23	VER_036	Total/NA	Water	PrecSep_0	
500-258836-24	VER_037	Total/NA	Water	PrecSep_0	
500-258836-25	VER_038	Total/NA	Water	PrecSep_0	
500-258836-26	VER_038_FD	Total/NA	Water	PrecSep_0	
500-258836-27	VER_022	Total/NA	Water	PrecSep_0	
MB 160-685738/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-685738/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-258836-10 MS	VER_042_MS	Total/NA	Water	PrecSep_0	
500-258836-10 MSD	VER_042_MSD	Total/NA	Water	PrecSep_0	

Prep Batch: 685741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-4	VER_003R	Total/NA	Water	PrecSep-21	
MB 160-685741/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-685741/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 685743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-4	VER_003R	Total/NA	Water	PrecSep_0	
MB 160-685743/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-685743/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 685745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-22	VER_021	Total/NA	Water	PrecSep-21	
500-258836-28	VER_034	Total/NA	Water	PrecSep-21	
500-258836-29	VER_041	Total/NA	Water	PrecSep-21	
MB 160-685745/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-685745/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-258836-22 MS	VER_021_MS	Total/NA	Water	PrecSep-21	
500-258836-22 MSD	VER_021_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 685748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258836-22	VER_021	Total/NA	Water	PrecSep_0	
500-258836-28	VER_034	Total/NA	Water	PrecSep_0	
500-258836-29	VER_041	Total/NA	Water	PrecSep_0	
MB 160-685748/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-685748/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-258836-22 MS	VER_021_MS	Total/NA	Water	PrecSep_0	
500-258836-22 MSD	VER_021_MSD	Total/NA	Water	PrecSep_0	

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-685118/1-A
Matrix: Water
Analysis Batch: 689048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685118

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02175	U	0.0583	0.0583	1.00	0.139	pCi/L	10/25/24 08:24	11/18/24 21:32	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.6*		*30 - 110*	*10/25/24 08:24*	*11/18/24 21:32*	*1*

Lab Sample ID: LCS 160-685118/2-A
Matrix: Water
Analysis Batch: 689048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685118

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	9.772		1.12	1.00	0.122	pCi/L	102	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*80.4*		*30 - 110*

Lab Sample ID: MB 160-685737/1-A
Matrix: Water
Analysis Batch: 689807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685737

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1160	U	0.0966	0.0972	1.00	0.140	pCi/L	10/29/24 08:22	11/21/24 16:58	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*30 - 110*	*10/29/24 08:22*	*11/21/24 16:58*	*1*

Lab Sample ID: LCS 160-685737/2-A
Matrix: Water
Analysis Batch: 689807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685737

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	10.31		1.15	1.00	0.120	pCi/L	108	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*89.7*		*30 - 110*

Lab Sample ID: 500-258836-10 MS
Matrix: Water
Analysis Batch: 689610

Client Sample ID: VER_042_MS
Prep Type: Total/NA
Prep Batch: 685737

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.283	U	13.0	13.29		1.55	1.00	0.272	pCi/L	100	60 - 140		

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

Lab Sample ID: 500-258836-10 MS
Matrix: Water
Analysis Batch: 689610

Client Sample ID: VER_042_MS
Prep Type: Total/NA
Prep Batch: 685737

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	91.4		30 - 110

Lab Sample ID: 500-258836-10 MSD
Matrix: Water
Analysis Batch: 689610

Client Sample ID: VER_042_MSD
Prep Type: Total/NA
Prep Batch: 685737

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	0.283	U	12.7	12.54		1.48	1.00	0.243	pCi/L	97	60 - 140	0.25	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	90.0		30 - 110

Lab Sample ID: MB 160-685741/1-A
Matrix: Water
Analysis Batch: 689479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685741

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.06957	U	0.116	0.116	1.00	0.254	pCi/L	10/29/24 08:31	11/20/24 21:26	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110	10/29/24 08:31	11/20/24 21:26	1

Lab Sample ID: LCS 160-685741/2-A
Matrix: Water
Analysis Batch: 689479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685741

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	9.017		1.06	1.00	0.209	pCi/L	94	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	85.1		30 - 110

Lab Sample ID: MB 160-685745/1-A
Matrix: Water
Analysis Batch: 689807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685745

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01800	U	0.0889	0.0889	1.00	0.176	pCi/L	10/29/24 08:37	11/21/24 21:30	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110	10/29/24 08:37	11/21/24 21:30	1

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

Lab Sample ID: LCS 160-685745/2-A
Matrix: Water
Analysis Batch: 689807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685745

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	10.32		1.18	1.00	0.157	pCi/L	108	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.7*		*30 - 110*

Lab Sample ID: 500-258836-22 MS
Matrix: Water
Analysis Batch: 689807

Client Sample ID: VER_021_MS
Prep Type: Total/NA
Prep Batch: 685745

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.134	U	9.57	10.77		1.27	1.00	0.199	pCi/L	111	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*71.6*		*30 - 110*

Lab Sample ID: 500-258836-22 MSD
Matrix: Water
Analysis Batch: 689807

Client Sample ID: VER_021_MSD
Prep Type: Total/NA
Prep Batch: 685745

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	0.134	U	9.54	10.64		1.26	1.00	0.221	pCi/L	110	60 - 140	0.05	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*68.2*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-685120/1-A
Matrix: Water
Analysis Batch: 688682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685120

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2525	U	0.348	0.348	1.00	0.582	pCi/L	10/25/24 08:28	11/15/24 12:13	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.6*		*30 - 110*	*10/25/24 08:28*	*11/15/24 12:13*	*1*
Y Carrier	*83.4*		*30 - 110*	*10/25/24 08:28*	*11/15/24 12:13*	*1*

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

Lab Sample ID: LCS 160-685120/2-A
Matrix: Water
Analysis Batch: 688682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685120

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.34	8.988		1.32	1.00	0.660	pCi/L	108	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*80.4*		*30 - 110*
Y Carrier	*85.6*		*30 - 110*

Lab Sample ID: MB 160-685738/1-A
Matrix: Water
Analysis Batch: 689051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685738

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.01142	U	0.258	0.258	1.00	0.496	pCi/L	10/29/24 08:25	11/18/24 12:16	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:16*	*1*
Y Carrier	*81.5*		*30 - 110*	*10/29/24 08:25*	*11/18/24 12:16*	*1*

Lab Sample ID: LCS 160-685738/2-A
Matrix: Water
Analysis Batch: 689051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685738

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.33	9.367		1.30	1.00	0.612	pCi/L	112	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*89.7*		*30 - 110*
Y Carrier	*82.6*		*30 - 110*

Lab Sample ID: 500-258836-10 MS
Matrix: Water
Analysis Batch: 689051

Client Sample ID: VER_042_MS
Prep Type: Total/NA
Prep Batch: 685738

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.0679	U	11.3	13.09		1.79	1.00	0.756	pCi/L	115	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*91.4*		*30 - 110*
Y Carrier	*81.1*		*30 - 110*

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

Lab Sample ID: 500-258836-10 MSD
Matrix: Water
Analysis Batch: 689051

Client Sample ID: VER_042_MSD
Prep Type: Total/NA
Prep Batch: 685738

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	0.0679	U	11.0	12.92		1.79	1.00	0.793	pCi/L	116	60 - 140	0.05	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*90.0*		*30 - 110*
Y Carrier	*81.5*		*30 - 110*

Lab Sample ID: MB 160-685743/1-A
Matrix: Water
Analysis Batch: 689004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685743

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2934	U	0.327	0.328	1.00	0.533	pCi/L	10/29/24 08:35	11/18/24 12:16	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*10/29/24 08:35*	*11/18/24 12:16*	*1*
Y Carrier	*82.6*		*30 - 110*	*10/29/24 08:35*	*11/18/24 12:16*	*1*

Lab Sample ID: LCS 160-685743/2-A
Matrix: Water
Analysis Batch: 689004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685743

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.33	8.318		1.22	1.00	0.584	pCi/L	100	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*85.1*		*30 - 110*
Y Carrier	*83.0*		*30 - 110*

Lab Sample ID: MB 160-685748/1-A
Matrix: Water
Analysis Batch: 689273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685748

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4229	U	0.457	0.458	1.00	0.746	pCi/L	10/29/24 08:40	11/19/24 12:03	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*10/29/24 08:40*	*11/19/24 12:03*	*1*
Y Carrier	*80.4*		*30 - 110*	*10/29/24 08:40*	*11/19/24 12:03*	*1*

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

Lab Sample ID: LCS 160-685748/2-A
Matrix: Water
Analysis Batch: 689274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685748

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.33	8.030		1.15	1.00	0.547	pCi/L	96	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*91.7*		*30 - 110*
Y Carrier	*84.9*		*30 - 110*

Lab Sample ID: 500-258836-22 MS
Matrix: Water
Analysis Batch: 689274

Client Sample ID: VER_021_MS
Prep Type: Total/NA
Prep Batch: 685748

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.194	U F	8.32	8.957		1.34	1.00	0.711	pCi/L	105	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*71.6*		*30 - 110*
Y Carrier	*86.0*		*30 - 110*

Lab Sample ID: 500-258836-22 MSD
Matrix: Water
Analysis Batch: 689274

Client Sample ID: VER_021_MSD
Prep Type: Total/NA
Prep Batch: 685748

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	0.194	U F	8.30	12.57	F1 F	1.79	1.00	0.814	pCi/L	149	60 - 140	1.15	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*68.2*		*30 - 110*
Y Carrier	*72.9*		*30 - 110*

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_010
Date Collected: 10/21/24 15:55
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685118	BCE	EET SL	10/25/24 08:24
Total/NA	Analysis	903.0		1	689051	SWS	EET SL	11/18/24 21:42
Total/NA	Prep	PrecSep_0			685120	BCE	EET SL	10/25/24 08:28
Total/NA	Analysis	904.0		1	688682	SWS	EET SL	11/15/24 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	690031	SCB	EET SL	11/22/24 15:46

Client Sample ID: VER_FB
Date Collected: 10/22/24 07:00
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685118	BCE	EET SL	10/25/24 08:24
Total/NA	Analysis	903.0		1	689051	SWS	EET SL	11/18/24 21:42
Total/NA	Prep	PrecSep_0			685120	BCE	EET SL	10/25/24 08:28
Total/NA	Analysis	904.0		1	688682	SWS	EET SL	11/15/24 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	690031	SCB	EET SL	11/22/24 15:46

Client Sample ID: VER_EB
Date Collected: 10/22/24 07:30
Date Received: 10/22/24 12:47

Lab Sample ID: 500-258836-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685118	BCE	EET SL	10/25/24 08:24
Total/NA	Analysis	903.0		1	689051	SWS	EET SL	11/18/24 21:42
Total/NA	Prep	PrecSep_0			685120	BCE	EET SL	10/25/24 08:28
Total/NA	Analysis	904.0		1	688682	SWS	EET SL	11/15/24 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	690031	SCB	EET SL	11/22/24 15:46

Client Sample ID: VER_003R
Date Collected: 10/22/24 13:00
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685741	BCE	EET SL	10/29/24 08:31
Total/NA	Analysis	903.0		1	689607	FLC	EET SL	11/20/24 21:35
Total/NA	Prep	PrecSep_0			685743	BCE	EET SL	10/29/24 08:35
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 14:06
Total/NA	Analysis	Ra226_Ra228 Pos		1	690029	SCB	EET SL	11/22/24 15:45

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_003R_FD
Date Collected: 10/22/24 13:05
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689807	SCB	EET SL	11/21/24 16:58
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_004
Date Collected: 10/22/24 12:15
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689807	SCB	EET SL	11/21/24 16:58
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_005
Date Collected: 10/22/24 11:30
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689830	SCB	EET SL	11/21/24 17:04
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_016A
Date Collected: 10/22/24 08:40
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689830	SCB	EET SL	11/21/24 17:04
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_035&D
Date Collected: 10/22/24 08:55
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689830	SCB	EET SL	11/21/24 17:04
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_042
Date Collected: 10/22/24 15:10
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 08:25
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_043
Date Collected: 10/22/24 15:55
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 08:25
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_043_FD
Date Collected: 10/22/24 16:00
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 08:25
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_070&D
Date Collected: 10/22/24 12:50
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 08:25
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_070#S
Date Collected: 10/22/24 13:25
Date Received: 10/23/24 12:00

Lab Sample ID: 500-258836-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 08:26
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_002
Date Collected: 10/23/24 10:10
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 08:26
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_007R
Date Collected: 10/23/24 10:50
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 08:26
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_101&
Date Collected: 10/23/24 08:35
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 08:26
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689051	SWS	EET SL	11/18/24 12:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_103&
Date Collected: 10/23/24 10:20
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 21:19
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689004	SWS	EET SL	11/18/24 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_020
Date Collected: 10/23/24 15:45
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 21:19
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689004	SWS	EET SL	11/18/24 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_021
Date Collected: 10/23/24 11:55
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685745	BCE	EET SL	10/29/24 08:37
Total/NA	Analysis	903.0		1	689807	SCB	EET SL	11/21/24 21:30
Total/NA	Prep	PrecSep_0			685748	BCE	EET SL	10/29/24 08:40
Total/NA	Analysis	904.0		1	689274	SCB	EET SL	11/19/24 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	690034	SCB	EET SL	11/22/24 16:02

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_036
Date Collected: 10/23/24 08:10
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 21:20
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689004	SWS	EET SL	11/18/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_037
Date Collected: 10/23/24 08:50
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 21:20
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689004	SWS	EET SL	11/18/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_038
Date Collected: 10/23/24 14:20
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 21:20
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689004	SWS	EET SL	11/18/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_038_FD
Date Collected: 10/23/24 14:35
Date Received: 10/24/24 11:15

Lab Sample ID: 500-258836-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 21:20
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689004	SWS	EET SL	11/18/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

Client Sample ID: VER_022
Date Collected: 10/24/24 08:20
Date Received: 10/24/24 12:30

Lab Sample ID: 500-258836-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685737	BCE	EET SL	10/29/24 08:22
Total/NA	Analysis	903.0		1	689610	FLC	EET SL	11/20/24 21:20
Total/NA	Prep	PrecSep_0			685738	BCE	EET SL	10/29/24 08:25
Total/NA	Analysis	904.0		1	689004	SWS	EET SL	11/18/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	689994	SCB	EET SL	11/22/24 12:07

Client Sample ID: VER_034
Date Collected: 10/24/24 08:00
Date Received: 10/24/24 12:30

Lab Sample ID: 500-258836-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685745	BCE	EET SL	10/29/24 08:37
Total/NA	Analysis	903.0		1	689830	SCB	EET SL	11/21/24 21:38
Total/NA	Prep	PrecSep_0			685748	BCE	EET SL	10/29/24 08:40
Total/NA	Analysis	904.0		1	689274	SCB	EET SL	11/19/24 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	690034	SCB	EET SL	11/22/24 16:02

Client Sample ID: VER_041
Date Collected: 10/24/24 08:50
Date Received: 10/24/24 12:30

Lab Sample ID: 500-258836-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			685745	BCE	EET SL	10/29/24 08:37
Total/NA	Analysis	903.0		1	689830	SCB	EET SL	11/21/24 21:38
Total/NA	Prep	PrecSep_0			685748	BCE	EET SL	10/29/24 08:40
Total/NA	Analysis	904.0		1	689274	SCB	EET SL	11/19/24 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	690034	SCB	EET SL	11/22/24 16:02

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

Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
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	11-30-25

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

Analysis Method	Prep Method	Matrix	Analyte
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

500-258836

500-258836 COC

Section A Required Client Information.

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

Section B Required Project Information

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

Section C Invoice Information.

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_002																X	X				X			
2	VER_003R																X	X				X			
3	VER_003R_FD																X	X				X			
4	VER_004																X	X				X			
5	VER_005																X	X				X			
6	VER_007R																X	X				X			
7	VER_008R																X	X				X			
8	VER_010			10-21-24	1555												X		X	X	X				Well went Dry @ FD
9	VER_010_FD			dbn 103024	dbn 110724												X		X	X	X				
10	VER_101&																X	X				X			
11	VER_103&																X	X				X			
12	VER_016A																X		X	X	X				
13	VER_016IB																X		X	X	X				
14	VER_017																X	X				X			
15	VER_020																X	X				X			
16	VER_021																X	X				X			MS/MSD

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewicz	10.22.24	0800	P.J. Ellison	10/22/24	1077	
	P.J. Ellison	10/22/24	1247	Stephanie Hernandez EEIA	10/22/24	1247	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz

DATE Signed (MM/DD/YY): 10/22/24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3.1+2.9			

Note * will move FD From 010 To Another well.

500-158834

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information

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

Section B Required Project Information

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_ND3																	X				X			
2	VER_NED1																		X			X			
3	VER_OED1																	X				X			
4	VER_YSG01																	X					X		DTW ONLY
2 5	VER_FB			10.22.24	0700												X		X	X	X				
3 6	VER_EB			10.22.24	0730												X		X	X	X				
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewicz	10/22/24	0800	M.J. Ellis	10/22/24	1027	
	M.J. Ellis	10/22/24	1297	Stephanie Hemandez FETA	10/22/24	1297	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz

DATE Signed (MM/DD/YY): 10-22-24

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

CHAIN-OF-CUSTODY / Analytical Request Document

500-258836

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

Section A Required Client Information

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

Section B Required Project Information.

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

Section C Invoice Information

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

500-258836 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N Analysis Test: VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	VER_002															X	X				X			
2	VER_003R			10-22-23	1300											X	X				X			
3	VER_003R_FD			10-22-23	1305											X	X				X			
4	VER_004			10-22-23	1215											X	X				X			
5	VER_005			10-22-23	1130											X	X				X			
6	VER_007R															X	X				X			
7	VER_008R															X	X				X			
8	VER_010															X		X	X	X				
9	VER_010_FD															X		X	X	X				
10	VER_101&															X	X				X			
11	VER_103&															X	X				X			
12	VER_016A			10-22-24	0840											X		X	X	X				
13	VER_016IB															X		X	X	X				
14	VER_017															X	X				X			
15	VER_020															X	X				X			
16	VER_021															X	X				X			MS/MSD

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorae Filewicz	10/23/24	0800	[signature]	10/23/24	1200	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorae Filewicz

SIGNATURE of SAMPLER: Lorae Filewicz

DATE Signed (MM/DD/YY): 10/23/24

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

5.3→5.1, 4.4→4.2
3.6→3.4, 3.8→3.6

500-258836

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

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

Section B Required Project Information:

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

Section C Invoice Information

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 /)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_022																	X		X			X			
2	VER_034																	X	X				X			
3	VER_035&D																	X		X	X	X				
4	VER_035#S &D			10/22/24	0855			-										X		X	X	X				35&D
5	VER_036 dbn 103024																	X	X				X			
6	VER_037																	X	X				X			
7	VER_038																	X	X				X			
8	VER_038_FD																	X	X				X			
9	VER_041																	X	X				X			
10	VER_042			10/22-24	1510													X	X				X			MS/MSD
11	VER_043			10/22-24	1555													X	X				X			
12	VER_043_FD			10/22/24	1600													X	X				X			
13	VER_070&D			10-22-24	1250													X		X			X			
14	VER_070#S			10 22-24	1325													X		X			X			
15	VER_071&D																	X		X			X			
16	VER_071#S																	X		X			X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewicz	10/23/24	0900		10/23/24	1208	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz

DATE Signed (MM/DD/YY): 10/23/24

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

500-258836

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information.	
Company:	Vistra Corp-Vermilion	Report To.	Brian Voelker	Attention.	Dianna Tickner
Address	10188 E 2150 North Rd	Copy To:	Sam Davies samantha davies@vistracorp com	Company Name:	Vistra Corp
	Danville, IL 61834		Dianna Tickner - dianna.tickner@vistracorp.com	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference	
Phone	(217) 753-8911 Fax.	Project Name:		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50022750	Profile #:	

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER

Site Location		
STATE	IL	

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_ND3																	X				X			
15 2	VER_NED1			10.22.24	1150														X			X			
3	VER_OED1																	X				X			
4	VER_YSG01																	X					X		DTW ONLY
5	VER_FB																X		X	X	X				
16 6	VER_EB																X		X	X	X				
7	ned 1 - FD			102224	1210														X			X			
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewicz	10-23-24	0800	[signature]	10/23/24	1200	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER	Lorne Filewicz		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	Lorne Filewicz	DATE Signed (MM/DD/YY) 10-23-24				

500-258836

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information

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

Section B Required Project Information

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

Section C Invoice Information

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I.D.
17 1	VER_002			10 23 24	1010												X	X				X			
2	VER_003R																X	X				X			
3	VER_003R_FD																X	X				X			
4	VER_004																X	X				X			
5	VER_005																X	X				X			
18 6	VER_007R			10 23 24	1050												X	X				X			
7	VER_008R																X	X				X			
8	VER_010																X		X	X	X				
9	VER_010_FD																X		X	X	X				
19 10	VER_101&			10-23-24	0835												X	X				X			
20 11	VER_103&			10-23 24	1020												X	X				X			
12	VER_016A																X		X	X	X				
13	VER_016IB																X		X	X	X				
14	VER_017																X	X				X			
21 15	VER_020			10-23 24	1545												X	X				X			
22 16	VER_021			10-23-24	1155												X	X				X			MS/MSD

500-258836 COC

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewicz	10/24/24	0800	Stephanie Hernandez EETA	10/24/24	1115	5.8→5.6

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	Lorne Filewicz					
SIGNATURE of SAMPLER	Lorne Filewicz	DATE Signed (MM/DD/YY) 10-24-24				

5.8→5.6, 3.8→3.6
4.3→4.1, 4.3→4.1

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-258831p

Section A Required Client Information.		Section B Required Project Information.		Section C Invoice Information.	
Company:	Vistra Corp-Vermillion	Report To:	Brian Voelker	Attention:	Dianna Tickner
Address	10188 E 2150 North Rd	Copy To	Sam Davies samantha davies@vistracorp com	Company Name	Vistra Corp
	Danville, IL 61834		Dianna Tickner - dianna tickner@vistracorp com	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference	
Phone	(217) 753-8911 Fax	Project Name:		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50022750	Profile #:	

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

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	VER_022																X		X			X			
2	VER_034																X	X				X			
3	VER_035&D																X		X	X	X				
4	VER_035#S																X		X	X	X				
23 5	VER_036			10-23-24	0810												X	X				X			
24 6	VER_037			10-23-24	0850												X	X				X			
25 7	VER_038			10-23-24	1420												X	X				X			
26 8	VER_038_FD			10-23-24	1435												X	X				X			
9	VER_041																X	X				X			
10	VER_042																X	X				X			MS/MSD
11	VER_043																X	X				X			
12	VER_043_FD																X	X				X			
13	VER_070&D																X		X			X			
14	VER_070#S																X		X			X			
15	VER_071&D																X		X			X			
16	VER_071#S																X		X			X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewicz	10-24-24	0800	Stephanie Hernandez EEHA	10/29/24	1115	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER	Lorne Filewicz				
SIGNATURE of SAMPLER	Lorne Filewicz	DATE Signed (MM/DD/YY)	10-24-24	Temp in °C	Received on Ice (Y/N) / Custody Sealed Cooler (Y/N) / Samples Intact (Y/N)

500-258836

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Vermillion	Report To:	Brian Voelker	Attention	Dianna Tickner
Address	10188 E 2150 North Rd	Copy To:	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Danville, IL 61834		Dianna Tickner - dianna tickner@vistracorp com	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference	
Phone:	(217) 753-8911 Fax:	Project Name		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50022750	Profile #:	

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

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: VER_000_RAD	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_C	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_022			10-24-24	0820												X		X			X			
2	VER_034			10-24-24	0800												X	X				X			
3	VER_035&D			~~10-24-24~~	~~0850~~												X		X	X	X				
4	VER_035#S			dbn 103024													X		X	X	X				
5	VER_036																X	X				X			
6	VER_037																X	X				X			
7	VER_038																X	X				X			
8	VER_038_FD																X	X				X			
9	VER_041			10-24-24	0850												X	X				X			
10	VER_042			dbn 103024													X	X				X			MS/MSD
11	VER_043																X	X				X			
12	VER_043_FD																X	X				X			
13	VER_070&D																X		X			X			
14	VER_070#S																X		X			X			
15	VER_071&D																X		X			X			
16	VER_071#S																X		X			X			

27 28 29

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-24Q4 Rev 0	Lorne Filewich	10-24-24	1230	Dahjane Yarbrough CETA	10/24/24	1230	

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	Lorne Filewich				
SIGNATURE of SAMPLER	Lorne Filewich	DATE Signed (MM/DD/YY)			

Outlook

Re: VER sample question

From George Assalley <george@a3e.com>
Date Thu 10/24/2024 9:05 AM
To Dirk Nelson <Dirk.Nelson@et.eurofinsus.com>

Unverified Sender: The sender of this email has not been verified. Review the content of the message carefully and verify the identity of the sender before acting on this email: replying, opening attachments or clicking links.

Hey Dirk,
The #9 sample bottles collected were from Well Ver_035&D. The COC must have been mislabeled. I apologize for any confusion.
Thanks

George Assalley
A3 Environmental Consultants
T: (317) 910-8662

On Thu, Oct 24, 2024 at 8:46 AM Dirk Nelson <Dirk.Nelson@et.eurofinsus.com> wrote:

> Per sample receiving - Sample #9, received yesterday, was recorded on the COC as VER_035#S, collected on 10/22 at 0855. The bottles received were labeled VER_035&D. Please confirm which well this actually is.
>
> Thanks,
>
> **Dirk Nelson**
> Project Management Assistant
>
> Eurofins Environment Testing North Central - Chicago
> 2417 Bond Street
> University Park, IL 60484 USA
> Phone: 708-534-5200 ext. 847116
>
> Dirk.Nelson@ET.EurofinsUS.com
> www.EurofinsUS.com/Env
> Follow Us! Facebook | LinkedIn

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Nelson, Dirk	Carrier Tracking No(s): N/A	COC No: 500-194220.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-258836-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/20/2024			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: VER-24Q4	Project #: 50022750			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BL	904.0/PrecSep_0 BL	Ra226_228GFPC_P/ BL	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
VER_010 (500-258836-1)	10/21/24	Central	G	Water			X	X	X	2	
VER_FB (500-258836-2)	10/22/24	07:00 Central	G	Water			X	X	X	2	
VER_EB (500-258836-3)	10/22/24	07:30 Central	G	Water			X	X	X	2	

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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	10/22/24 15:30		M. Pinette	OCT 23 2024 0930	
2				Meadow Pinette		
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Nelson, Dirk	Carrier Tracking No(s): N/A	COC No: 500-194351.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-258836-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/21/2024			
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: VER-24Q4	Project #: 50022750			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BL	904.0/PrecSep_0 BL	Ra226_228GFPC_P/ BL	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
VER_003R (500-258836-4)	10/22/24	13:00 Central	G	Water			X	X	X	2	
VER_003R_FD (500-258836-5)	10/22/24	13:05 Central	G	Water			X	X	X	2	
VER_004 (500-258836-6)	10/22/24	12:15 Central	G	Water			X	X	X	2	
VER_005 (500-258836-7)	10/22/24	11:30 Central	G	Water			X	X	X	2	
VER_016A (500-258836-8)	10/22/24	08:40 Central	G	Water			X	X	X	2	
VER_035&D (500-258836-9)	10/22/24	08:55 Central	G	Water			X	X	X	2	
VER_042 (500-258836-10)	10/22/24	15:10 Central	G	Water			X	X	X	2	
VER_042_MS (500-258836-10MS)	10/22/24	15:10 Central	G	Water			X	X	X	2	
VER_042_MSD (500-258836-10MSD)	10/22/24	15:10 Central	G	Water			X	X	X	2	

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*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/24/24 15:30	Company	Received by:	Date/Time: 10/25 0850	Company: ETA-SL
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Nelson, Dirk	Carrier Tracking No(s): N/A	COC No: 500-194351.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-258836-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/21/2024			Preservation Codes: -
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: VER-24Q4	Project #: 50022750			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BL	904.0/PrecSep_0 BL	Ra226_228GFPC_P/ BL	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
VER_043 (500-258836-11)	10/22/24	15:55 Central	G	Water			X	X	X	2	
VER_043_FD (500-258836-12)	10/22/24	16:00 Central	G	Water			X	X	X	2	
VER_070&D (500-258836-13)	10/22/24	12:50 Central	G	Water			X	X	X	2	
VER_070#S (500-258836-14)	10/22/24	13:25 Central	G	Water			X	X	X	2	

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*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/24/24 15:17		[signature]	10/25/24 0850	ETA-STL
2	Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal 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

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Nelson, Dirk	Carrier Tracking No(s): N/A	COC No: 500-194351.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-258836-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/7/2024			
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: VER-24Q4	Project #: 50022750			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BL	904.0/PrecSep_0 BL	Ra226_228GFPC_P/ BL	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
VER_002 (500-258836-17)	10/23/24	10:10 Central	G	Water			X	X	X	2	
VER_007R (500-258836-18)	10/23/24	10:50 Central	G	Water			X	X	X	2	
VER_101& (500-258836-19)	10/23/24	08:35 Central	G	Water			X	X	X	2	
VER_103& (500-258836-20)	10/23/24	10:20 Central	G	Water			X	X	X	2	
VER_020 (500-258836-21)	10/23/24	15:45 Central	G	Water			X	X	X	2	
VER_021 (500-258836-22)	10/23/24	11:55 Central	G	Water			X	X	X	2	
VER_021_MS (500-258836-22MS)	10/23/24	11:55 Central	G	Water			X	X	X	2	
VER_021_MSD (500-258836-22MSD)	10/23/24	11:55 Central	G	Water			X	X	X	2	
VER_036 (500-258836-23)	10/23/24	08:10 Central	G	Water			X	X	X	2	

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	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	10/24/24 1530	ET	[signature]	10/25/24 0850	ETA-SDL
2	Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

11/22/24

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Nelson, Dirk	Carrier Tracking No(s): N/A	COC No: 500-194351.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-258836-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/7/2024			
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: VER-24Q4	Project #: 50022750			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BL	904.0/PrecSep_0 BL	Ra226_228GFPC_P/ BL	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
VER_037 (500-258836-24)	10/23/24	08:50 Central	G	Water			X	X	X	2	
VER_038 (500-258836-25)	10/23/24	14:20 Central	G	Water			X	X	X	2	
VER_038_FD (500-258836-26)	10/23/24	14:35 Central	G	Water			X	X	X	2	
VER_022 (500-258836-27)	10/24/24	08:20 Central	G	Water			X	X	X	2	
VER_034 (500-258836-28)	10/24/24	08:00 Central	G	Water			X	X	X	2	
VER_041 (500-258836-29)	10/24/24	08:50 Central	G	Water			X	X	X	2	

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*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/24/24 1530	EET	[signature]	10/25/24 0850	EET-STL
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

11/22/24

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-258836-2
SDG Number: VER_000_RAD

Login Number: 258836
List Number: 1
Creator: Hernandez, Stephanie

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	2.9,5.1,4.2,3.4,3.6,5.6,3.6,4.1,4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date and/or time on COC, logged in per container labels.
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.	False	No date or time on COC, logged in per container labels.
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	

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-258836-2
SDG Number: VER_000_RAD

Login Number: 258836
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 10/23/24 02:22 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	

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-258836-2
SDG Number: VER_000_RAD

Login Number: 258836
List Number: 3
Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis
List Creation: 10/25/24 04:47 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-24Q4

Job ID: 500-258836-2
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)
500-258836-1	VER_010	84.8
500-258836-2	VER_FB	96.1
500-258836-3	VER_EB	85.8
500-258836-4	VER_003R	89.0
500-258836-5	VER_003R_FD	84.6
500-258836-6	VER_004	89.7
500-258836-7	VER_005	90.5
500-258836-8	VER_016A	89.7
500-258836-9	VER_035&D	89.5
500-258836-10	VER_042	89.0
500-258836-10 MS	VER_042_MS	91.4
500-258836-10 MSD	VER_042_MSD	90.0
500-258836-11	VER_043	86.6
500-258836-12	VER_043_FD	92.7
500-258836-13	VER_070&D	72.9
500-258836-14	VER_070#S	90.7
500-258836-17	VER_002	75.3
500-258836-18	VER_007R	83.6
500-258836-19	VER_101&	72.4
500-258836-20	VER_103&	89.0
500-258836-21	VER_020	91.0
500-258836-22	VER_021	80.0
500-258836-22 MS	VER_021_MS	71.6
500-258836-22 MSD	VER_021_MSD	68.2
500-258836-23	VER_036	94.9
500-258836-24	VER_037	89.7
500-258836-25	VER_038	89.2
500-258836-26	VER_038_FD	87.3
500-258836-27	VER_022	83.1
500-258836-28	VER_034	58.2
500-258836-29	VER_041	85.8
LCS 160-685118/2-A	Lab Control Sample	80.4
LCS 160-685737/2-A	Lab Control Sample	89.7
LCS 160-685741/2-A	Lab Control Sample	85.1
LCS 160-685745/2-A	Lab Control Sample	91.7
MB 160-685118/1-A	Method Blank	95.6
MB 160-685737/1-A	Method Blank	91.7
MB 160-685741/1-A	Method Blank	86.6
MB 160-685745/1-A	Method Blank	85.3

Tracer/Carrier Legend

Ba = Ba Carrier

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)
500-258836-1	VER_010	84.8	81.1

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q4

Job ID: 500-258836-2
SDG: VER_000_RAD

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-258836-2	VER_FB	96.1	89.0
500-258836-3	VER_EB	85.8	83.0
500-258836-4	VER_003R	89.0	77.0
500-258836-5	VER_003R_FD	84.6	73.3
500-258836-6	VER_004	89.7	78.1
500-258836-7	VER_005	90.5	76.6
500-258836-8	VER_016A	89.7	76.6
500-258836-9	VER_035&D	89.5	79.6
500-258836-10	VER_042	89.0	76.6
500-258836-10 MS	VER_042_MS	91.4	81.1
500-258836-10 MSD	VER_042_MSD	90.0	81.5
500-258836-11	VER_043	86.6	83.0
500-258836-12	VER_043_FD	92.7	79.3
500-258836-13	VER_070&D	72.9	78.9
500-258836-14	VER_070#S	90.7	78.5
500-258836-17	VER_002	75.3	77.8
500-258836-18	VER_007R	83.6	80.7
500-258836-19	VER_101&	72.4	80.0
500-258836-20	VER_103&	89.0	78.1
500-258836-21	VER_020	91.0	82.2
500-258836-22	VER_021	80.0	86.4
500-258836-22 MS	VER_021_MS	71.6	86.0
500-258836-22 MSD	VER_021_MSD	68.2	72.9
500-258836-23	VER_036	94.9	83.4
500-258836-24	VER_037	89.7	78.5
500-258836-25	VER_038	89.2	81.5
500-258836-26	VER_038_FD	87.3	80.7
500-258836-27	VER_022	83.1	83.0
500-258836-28	VER_034	58.2	80.0
500-258836-29	VER_041	85.8	86.0
LCS 160-685120/2-A	Lab Control Sample	80.4	85.6
LCS 160-685738/2-A	Lab Control Sample	89.7	82.6
LCS 160-685743/2-A	Lab Control Sample	85.1	83.0
LCS 160-685748/2-A	Lab Control Sample	91.7	84.9
MB 160-685120/1-A	Method Blank	95.6	83.4
MB 160-685738/1-A	Method Blank	91.7	81.5
MB 160-685743/1-A	Method Blank	86.6	82.6
MB 160-685748/1-A	Method Blank	85.3	80.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

ATTACHMENT C
COMPARISON TO BACKGROUND
QUARTER 4, 2024

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 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	E007	Antimony, total	mg/L	--	--	--	--	NS[7]	0.00500
16B	UU	E007	Arsenic, total	mg/L	--	--	--	--	NS[7]	0.001
16B	UU	E007	Barium, total	mg/L	--	--	--	--	NS[7]	0.0820
16B	UU	E007	Beryllium, total	mg/L	--	--	--	--	NS[7]	0.001
16B	UU	E007	Boron, total	mg/L	--	--	--	--	NS[7]	0.430
16B	UU	E007	Cadmium, total	mg/L	--	--	--	--	NS[7]	0.001
16B	UU	E007	Chloride, total	mg/L	--	--	--	--	NS[7]	20.4
16B	UU	E007	Chromium, total	mg/L	--	--	--	--	NS[7]	0.00400
16B	UU	E007	Cobalt, total	mg/L	--	--	--	--	NS[7]	0.0900
16B	UU	E007	Fluoride, total	mg/L	--	--	--	--	NS[7]	0.430
16B	UU	E007	Lead, total	mg/L	--	--	--	--	NS[7]	0.001
16B	UU	E007	Lithium, total	mg/L	--	--	--	--	NS[7]	0.0300
16B	UU	E007	Mercury, total	mg/L	--	--	--	--	NS[7]	0.0002
16B	UU	E007	Molybdenum, total	mg/L	--	--	--	--	NS[7]	0.00400
16B	UU	E007	pH (field)	SU	--	--	--	--	NS[7]	6.3/7.8
16B	UU	E007	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS[7]	7.00
16B	UU	E007	Selenium, total	mg/L	--	--	--	--	NS[7]	0.001
16B	UU	E007	Sulfate, total	mg/L	--	--	--	--	NS[7]	338
16B	UU	E007	Thallium, total	mg/L	--	--	--	--	NS[7]	0.002
16B	UU	E007	Total Dissolved Solids	mg/L	--	--	--	--	NS[7]	1,080
16A	BCU	E007	Antimony, total	mg/L	04/01/21 - 10/22/24	14	93	CB around T-S line	0.001	0.00500
16A	BCU	E007	Arsenic, total	mg/L	04/01/21 - 10/22/24	14	0	CI around geomean	0.00125	0.001
16A	BCU	E007	Barium, total	mg/L	04/01/21 - 10/22/24	14	0	CI around mean	0.262	0.0820
16A	BCU	E007	Beryllium, total	mg/L	04/01/21 - 10/22/24	14	100	All ND - Last	0.001	0.001
16A	BCU	E007	Boron, total	mg/L	04/01/21 - 10/22/24	14	0	CI around mean	0.697	0.430
16A	BCU	E007	Cadmium, total	mg/L	04/01/21 - 10/22/24	14	100	All ND - Last	0.0005	0.001
16A	BCU	E007	Chloride, total	mg/L	04/01/21 - 10/22/24	14	0	CI around mean	126	20.4

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 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	E007	Chromium, total	mg/L	04/01/21 - 10/22/24	14	79	CB around T-S line	0.0015	0.00400
16A	BCU	E007	Cobalt, total	mg/L	04/01/21 - 10/22/24	14	79	CI around median	0.001	0.0900
16A	BCU	E007	Fluoride, total	mg/L	04/01/21 - 10/22/24	14	7	CI around mean	0.691	0.430
16A	BCU	E007	Lead, total	mg/L	04/01/21 - 10/22/24	14	79	CI around median	0.0005	0.001
16A	BCU	E007	Lithium, total	mg/L	04/01/21 - 10/22/24	14	0	CB around T-S line	0.0312	0.0300
16A	BCU	E007	Mercury, total	mg/L	04/01/21 - 10/22/24	14	100	All ND - Last	0.0002	0.0002
16A	BCU	E007	Molybdenum, total	mg/L	04/01/21 - 10/22/24	14	100	All ND - Last	0.005	0.00400
16A	BCU	E007	pH (field)	SU	04/01/21 - 10/22/24	19	0	CI around mean	7.2/7.5	6.3/7.8
16A	BCU	E007	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 10/22/24	13	0	CB around linear reg	0.846	7.00
16A	BCU	E007	Selenium, total	mg/L	04/01/21 - 10/22/24	14	100	All ND - Last	0.0025	0.001
16A	BCU	E007	Sulfate, total	mg/L	04/01/21 - 10/22/24	19	5	CB around T-S line	-35.9	338
16A	BCU	E007	Thallium, total	mg/L	04/01/21 - 10/22/24	14	100	All ND - Last	0.002	0.002
16A	BCU	E007	Total Dissolved Solids	mg/L	04/01/21 - 10/22/24	19	0	CI around mean	650	1,080
35S	UU	E007	Antimony, total	mg/L	--	--	--	--	NS[7]	0.00500
35S	UU	E007	Arsenic, total	mg/L	--	--	--	--	NS[7]	0.001
35S	UU	E007	Barium, total	mg/L	--	--	--	--	NS[7]	0.0820
35S	UU	E007	Beryllium, total	mg/L	--	--	--	--	NS[7]	0.001
35S	UU	E007	Boron, total	mg/L	--	--	--	--	NS[7]	0.430
35S	UU	E007	Cadmium, total	mg/L	--	--	--	--	NS[7]	0.001
35S	UU	E007	Chloride, total	mg/L	--	--	--	--	NS[7]	20.4
35S	UU	E007	Chromium, total	mg/L	--	--	--	--	NS[7]	0.00400
35S	UU	E007	Cobalt, total	mg/L	--	--	--	--	NS[7]	0.0900
35S	UU	E007	Fluoride, total	mg/L	--	--	--	--	NS[7]	0.430
35S	UU	E007	Lead, total	mg/L	--	--	--	--	NS[7]	0.001
35S	UU	E007	Lithium, total	mg/L	--	--	--	--	NS[7]	0.0300
35S	UU	E007	Mercury, total	mg/L	--	--	--	--	NS[7]	0.0002
35S	UU	E007	Molybdenum, total	mg/L	--	--	--	--	NS[7]	0.00400

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 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	E007	pH (field)	SU	--	--	--	--	NS[7]	6.3/7.8
35S	UU	E007	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS[7]	7.00
35S	UU	E007	Selenium, total	mg/L	--	--	--	--	NS[7]	0.001
35S	UU	E007	Sulfate, total	mg/L	--	--	--	--	NS[7]	338
35S	UU	E007	Thallium, total	mg/L	--	--	--	--	NS[7]	0.002
35S	UU	E007	Total Dissolved Solids	mg/L	--	--	--	--	NS[7]	1,080
35D	BCU	E007	Antimony, total	mg/L	04/01/21 - 10/22/24	15	80	CI around median	0.001	0.00500
35D	BCU	E007	Arsenic, total	mg/L	04/01/21 - 10/22/24	15	20	CI around geomean	0.00173	0.001
35D	BCU	E007	Barium, total	mg/L	04/01/21 - 10/22/24	15	0	CB around T-S line	-0.0607	0.0820
35D	BCU	E007	Beryllium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.001	0.001
35D	BCU	E007	Boron, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	1.7	0.430
35D	BCU	E007	Cadmium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0005	0.001
35D	BCU	E007	Chloride, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	324	20.4
35D	BCU	E007	Chromium, total	mg/L	04/01/21 - 10/22/24	15	80	CB around T-S line	0.00165	0.00400
35D	BCU	E007	Cobalt, total	mg/L	04/01/21 - 10/22/24	15	53	CB around T-S line	-0.00285	0.0900
35D	BCU	E007	Fluoride, total	mg/L	04/01/21 - 10/22/24	15	7	CI around median	0.65	0.430
35D	BCU	E007	Lead, total	mg/L	04/01/21 - 10/22/24	15	60	CB around T-S line	-0.00424	0.001
35D	BCU	E007	Lithium, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	0.117	0.0300
35D	BCU	E007	Mercury, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0002	0.0002
35D	BCU	E007	Molybdenum, total	mg/L	04/01/21 - 10/22/24	15	40	CB around linear reg	-0.00149	0.00400
35D	BCU	E007	pH (field)	SU	04/01/21 - 10/22/24	19	0	CI around median	7.3/7.4	6.3/7.8
35D	BCU	E007	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 10/22/24	14	0	CI around mean	0.457	7.00
35D	BCU	E007	Selenium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.013	0.001
35D	BCU	E007	Sulfate, total	mg/L	04/01/21 - 10/22/24	20	0	CI around mean	1,150	338
35D	BCU	E007	Thallium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.002	0.002
35D	BCU	E007	Total Dissolved Solids	mg/L	04/01/21 - 10/22/24	20	0	CI around mean	2,820	1,080
70S	UU	E007	Antimony, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.003	0.00500

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 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	E007	Arsenic, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.001	0.001
70S	UU	E007	Barium, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	0.0163	0.0820
70S	UU	E007	Beryllium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.001	0.001
70S	UU	E007	Boron, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	0.391	0.430
70S	UU	E007	Cadmium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0005	0.001
70S	UU	E007	Chloride, total	mg/L	04/01/21 - 10/22/24	15	0	CB around linear reg	8.45	20.4
70S	UU	E007	Chromium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.005	0.00400
70S	UU	E007	Cobalt, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.001	0.0900
70S	UU	E007	Fluoride, total	mg/L	04/01/21 - 10/22/24	15	7	CI around median	0.14	0.430
70S	UU	E007	Lead, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0005	0.001
70S	UU	E007	Lithium, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	0.0123	0.0300
70S	UU	E007	Mercury, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0002	0.0002
70S	UU	E007	Molybdenum, total	mg/L	04/01/21 - 10/22/24	15	40	CI around median	0.005	0.00400
70S	UU	E007	pH (field)	SU	04/01/21 - 10/22/24	15	0	CI around mean	6.9/7.1	6.3/7.8
70S	UU	E007	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 10/22/24	14	0	CI around geomean	0.132	7.00
70S	UU	E007	Selenium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0025	0.001
70S	UU	E007	Sulfate, total	mg/L	04/01/21 - 10/22/24	15	0	CB around linear reg	439	338
70S	UU	E007	Thallium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.002	0.002
70S	UU	E007	Total Dissolved Solids	mg/L	04/01/21 - 10/22/24	15	0	CB around linear reg	1,030	1,080
70D	BCU	E007	Antimony, total	mg/L	04/01/21 - 10/22/24	15	87	CI around median	0.001	0.00500
70D	BCU	E007	Arsenic, total	mg/L	04/01/21 - 10/22/24	15	67	CI around median	0.001	0.001
70D	BCU	E007	Barium, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	0.443	0.0820
70D	BCU	E007	Beryllium, total	mg/L	04/01/21 - 10/22/24	15	80	CI around median	0.001	0.001
70D	BCU	E007	Boron, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	1.22	0.430
70D	BCU	E007	Cadmium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0005	0.001
70D	BCU	E007	Chloride, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	529	20.4
70D	BCU	E007	Chromium, total	mg/L	04/01/21 - 10/22/24	15	47	CB around linear reg	-0.0333	0.00400

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 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
70D	BCU	E007	Cobalt, total	mg/L	04/01/21 - 10/22/24	15	13	CB around T-S line	-0.0668	0.0900
70D	BCU	E007	Fluoride, total	mg/L	04/01/21 - 10/22/24	15	7	CI around geomean	0.418	0.430
70D	BCU	E007	Lead, total	mg/L	04/01/21 - 10/22/24	15	20	CB around linear reg	-0.0207	0.001
70D	BCU	E007	Lithium, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	0.0806	0.0300
70D	BCU	E007	Mercury, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.0002	0.0002
70D	BCU	E007	Molybdenum, total	mg/L	04/01/21 - 10/22/24	15	47	CB around linear reg	-0.0147	0.00400
70D	BCU	E007	pH (field)	SU	04/01/21 - 10/22/24	15	0	CI around mean	6.9/7.2	6.3/7.8
70D	BCU	E007	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 10/22/24	14	0	CI around geomean	1.3	7.00
70D	BCU	E007	Selenium, total	mg/L	04/01/21 - 10/22/24	15	87	CB around T-S line	0.001	0.001
70D	BCU	E007	Sulfate, total	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	42.5	338
70D	BCU	E007	Thallium, total	mg/L	04/01/21 - 10/22/24	15	100	All ND - Last	0.002	0.002
70D	BCU	E007	Total Dissolved Solids	mg/L	04/01/21 - 10/22/24	15	0	CI around mean	1,390	1,080
71S	UU	E007	Antimony, total	mg/L	--	--	--	--	NS[7]	0.00500
71S	UU	E007	Arsenic, total	mg/L	--	--	--	--	NS[7]	0.001
71S	UU	E007	Barium, total	mg/L	--	--	--	--	NS[7]	0.0820
71S	UU	E007	Beryllium, total	mg/L	--	--	--	--	NS[7]	0.001
71S	UU	E007	Boron, total	mg/L	--	--	--	--	NS[7]	0.430
71S	UU	E007	Cadmium, total	mg/L	--	--	--	--	NS[7]	0.001
71S	UU	E007	Chloride, total	mg/L	--	--	--	--	NS[7]	20.4
71S	UU	E007	Chromium, total	mg/L	--	--	--	--	NS[7]	0.00400
71S	UU	E007	Cobalt, total	mg/L	--	--	--	--	NS[7]	0.0900
71S	UU	E007	Fluoride, total	mg/L	--	--	--	--	NS[7]	0.430
71S	UU	E007	Lead, total	mg/L	--	--	--	--	NS[7]	0.001
71S	UU	E007	Lithium, total	mg/L	--	--	--	--	NS[7]	0.0300
71S	UU	E007	Mercury, total	mg/L	--	--	--	--	NS[7]	0.0002
71S	UU	E007	Molybdenum, total	mg/L	--	--	--	--	NS[7]	0.00400
71S	UU	E007	pH (field)	SU	--	--	--	--	NS[7]	6.3/7.8

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 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	E007	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS[7]	7.00
71S	UU	E007	Selenium, total	mg/L	--	--	--	--	NS[7]	0.001
71S	UU	E007	Sulfate, total	mg/L	--	--	--	--	NS[7]	338
71S	UU	E007	Thallium, total	mg/L	--	--	--	--	NS[7]	0.002
71S	UU	E007	Total Dissolved Solids	mg/L	--	--	--	--	NS[7]	1,080
71D	BCU	E007	Antimony, total	mg/L	--	--	--	--	NS[7]	0.00500
71D	BCU	E007	Arsenic, total	mg/L	--	--	--	--	NS[7]	0.001
71D	BCU	E007	Barium, total	mg/L	--	--	--	--	NS[7]	0.0820
71D	BCU	E007	Beryllium, total	mg/L	--	--	--	--	NS[7]	0.001
71D	BCU	E007	Boron, total	mg/L	--	--	--	--	NS[7]	0.430
71D	BCU	E007	Cadmium, total	mg/L	--	--	--	--	NS[7]	0.001
71D	BCU	E007	Chloride, total	mg/L	--	--	--	--	NS[7]	20.4
71D	BCU	E007	Chromium, total	mg/L	--	--	--	--	NS[7]	0.00400
71D	BCU	E007	Cobalt, total	mg/L	--	--	--	--	NS[7]	0.0900
71D	BCU	E007	Fluoride, total	mg/L	--	--	--	--	NS[7]	0.430
71D	BCU	E007	Lead, total	mg/L	--	--	--	--	NS[7]	0.001
71D	BCU	E007	Lithium, total	mg/L	--	--	--	--	NS[7]	0.0300
71D	BCU	E007	Mercury, total	mg/L	--	--	--	--	NS[7]	0.0002
71D	BCU	E007	Molybdenum, total	mg/L	--	--	--	--	NS[7]	0.00400
71D	BCU	E007	pH (field)	SU	--	--	--	--	NS[7]	6.3/7.8
71D	BCU	E007	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS[7]	7.00
71D	BCU	E007	Selenium, total	mg/L	--	--	--	--	NS[7]	0.001
71D	BCU	E007	Sulfate, total	mg/L	--	--	--	--	NS[7]	338
71D	BCU	E007	Thallium, total	mg/L	--	--	--	--	NS[7]	0.002
71D	BCU	E007	Total Dissolved Solids	mg/L	--	--	--	--	NS[7]	1,080

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 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
Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program which was submitted to the Illinois Environmental Protection Agency (IEPA) on October 25, 2021 as part of Dynegy Midwest Generation, LLC's (DMG's) operating permit application for the New East Ash Pond. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, DMG has not identified any actual exceedances.
Events:
NA
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 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
Statistical Result Code (if applicable):
NR[1] = Parameter not analyzed.
NS[1] = Well has been, or will be, abandoned; therefore, a sample was not collected.
NS[2] = Well either needs or was undergoing maintenance; therefore, a sample was not collected.
NS[3] = The location was not accessible; therefore, a sample was not collected.
NS[4] = The location could not be found; therefore, a sample was not collected.
NS[5] = The location was damaged; therefore, a sample was not collected.
NS[6] = Sampling pump could not yield a sample.
NS[7] = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.
NS[8] = A sample was not collected.
PM[1] = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.
For pH, the values presented are the lower / upper limits of the background determination