Luminant

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

January 15, 2023

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

Re: 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.) Section (§) 845.610(b)(3)(D), Dynegy Midwest Generation, LLC is submitting groundwater monitoring data for the Quarter 3, 2023 sampling event at the Vermilion Power Plant New East Ash Pond, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1838000002-04. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine statistical exceedances of the GWPS.

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

As allowed in 35 I.A.C. § 845.650(e), an alternative source demonstration (ASD) was submitted on December 1, 2023 for the exceedances of the GWPS detected during the Quarter 2, 2023 sampling event. The IEPA provided a written response on December 28, 2023 that did not concur with the ASD. Therefore, a Corrective Measures Assessment (CMA) was initiated on December 31, 2023 in accordance with 35 I.A.C. § 845.660.

Sincerely,

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

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 3, 2023, New East Ash Pond (NEAP), Vermilion Power Plant, Oakwood, Illinois

RAMBOLL

ENVIRONMENT
& HEALTH

35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 3, 2023
NEW EAST ASH POND (NEAP), VERMILION POWER PLANT, OAKWOOD, ILLINOIS

January 15, 2023

Samples were collected on September 19-22, 2023 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on November 16, 2023.

The monitoring well locations are included in **Figure 1**. **Attachment A** summarizes the groundwater elevation data for the Quarter 3, 2023 sampling event. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 3, 2023 sampling event. Monitoring wells 35S and 71S had insufficient water to sample and monitoring well 71D purged dry while sampling. Monitoring well 16B was dry; therefore, groundwater elevation data were not recorded and groundwater samples were not collected for this sampling event. A field measurement for pH was inadvertently not recorded at well 40. Groundwater elevation data is not available for well 35S.

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

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

As allowed in 35 I.A.C. § 845.650(e), an alternative source demonstration[2] (ASD) was submitted on December 1, 2023 for the exceedances of the chloride, lithium, sulfate, and total dissolved solids GWPS detected in wells 35D and 70D during the Quarter 2, 2023 sampling event. The Illinois Environmental Protection Agency (IEPA) provided a written response on December 28, 2023[3] that did not concur with the ASD. Therefore, a Corrective Measures Assessment (CMA) was initiated on December 31, 2023 in accordance with 35 I.A.C. § 845.660.

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

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

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

TABLES

FIGURES

ATTACHMENTS

FIGURES

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

0 150 300
Feet

35 I.A.C. § 845 MONITORING WELL LOCATION MAP

NEW EAST ASH POND
VERMILION POWER PLANT
OAKWOOD, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

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PROJECT: 1690000XXXX | DATED: 9/7/2023 | DESIGNER: egreaves

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
10	Background	E002	09/19/2023	Antimony, total	0.0013 U	mg/L
10	Background	E002	09/19/2023	Arsenic, total	0.00100 J+	mg/L
10	Background	E002	09/19/2023	Barium, total	0.0690	mg/L
10	Background	E002	09/19/2023	Beryllium, total	0.00053 U	mg/L
10	Background	E002	09/19/2023	Boron, total	0.05 UJ	mg/L
10	Background	E002	09/19/2023	Cadmium, total	0.00017 U	mg/L
10	Background	E002	09/19/2023	Calcium, total	160	mg/L
10	Background	E002	09/19/2023	Chloride, total	4.60	mg/L
10	Background	E002	09/19/2023	Chromium, total	0.0011 U	mg/L
10	Background	E002	09/19/2023	Cobalt, total	0.0130 J	mg/L
10	Background	E002	09/19/2023	Dissolved Oxygen	2.96	mg/L
10	Background	E002	09/19/2023	Fluoride, total	0.19 J	mg/L
10	Background	E002	09/19/2023	Lead, total	0.00019 U	mg/L
10	Background	E002	09/19/2023	Lithium, total	0.0140	mg/L
10	Background	E002	09/19/2023	Mercury, total	0.000079 U	mg/L
10	Background	E002	09/19/2023	Molybdenum, total	0.0025 U	mg/L
10	Background	E002	09/19/2023	Oxidation Reduction Potential	196	mV
10	Background	E002	09/19/2023	pH (field)	6.9	SU
10	Background	E002	09/19/2023	Selenium, total	0.00098 U	mg/L
10	Background	E002	09/19/2023	Specific Conductance @ 25C (field)	1,387	micromhos/cm
10	Background	E002	09/19/2023	Sulfate, total	230	mg/L
10	Background	E002	09/19/2023	Temperature	16.5	degrees C
10	Background	E002	09/19/2023	Thallium, total	0.00057 U	mg/L
10	Background	E002	09/19/2023	Total Dissolved Solids	890	mg/L
10	Background	E002	09/19/2023	Turbidity, field	43.8	NTU
22	Background	E002	09/19/2023	Antimony, total	0.0013 U	mg/L
22	Background	E002	09/19/2023	Arsenic, total	0.001 UJ	mg/L
22	Background	E002	09/19/2023	Barium, total	0.0740	mg/L
22	Background	E002	09/19/2023	Beryllium, total	0.00053 U	mg/L
22	Background	E002	09/19/2023	Boron, total	0.390	mg/L
22	Background	E002	09/19/2023	Cadmium, total	0.00017 U	mg/L
22	Background	E002	09/19/2023	Calcium, total	39.0 J-	mg/L
22	Background	E002	09/19/2023	Chloride, total	16.0	mg/L
22	Background	E002	09/19/2023	Chromium, total	0.0011 U	mg/L
22	Background	E002	09/19/2023	Cobalt, total	0.0004 U	mg/L
22	Background	E002	09/19/2023	Dissolved Oxygen	0.830	mg/L
22	Background	E002	09/19/2023	Fluoride, total	0.45 J	mg/L
22	Background	E002	09/19/2023	Lead, total	0.00019 U	mg/L
22	Background	E002	09/19/2023	Lithium, total	0.0350	mg/L
22	Background	E002	09/19/2023	Mercury, total	0.00016 U	mg/L
22	Background	E002	09/19/2023	Molybdenum, total	0.0025 U	mg/L
22	Background	E002	09/19/2023	Oxidation Reduction Potential	-10.7	mV
22	Background	E002	09/19/2023	pH (field)	7.4	SU
22	Background	E002	09/19/2023	Selenium, total	0.00098 U	mg/L
22	Background	E002	09/19/2023	Specific Conductance @ 25C (field)	0.0700	micromhos/cm
22	Background	E002	09/19/2023	Sulfate, total	33.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
22	Background	E002	09/19/2023	Temperature	13.9	degrees C
22	Background	E002	09/19/2023	Thallium, total	0.00057 U	mg/L
22	Background	E002	09/19/2023	Total Dissolved Solids	470	mg/L
22	Background	E002	09/19/2023	Turbidity, field	0	NTU
16A	Compliance	E002	09/21/2023	Antimony, total	0.0013 U	mg/L
16A	Compliance	E002	09/21/2023	Arsenic, total	0.00130 J+	mg/L
16A	Compliance	E002	09/21/2023	Barium, total	0.300	mg/L
16A	Compliance	E002	09/21/2023	Beryllium, total	0.00053 U	mg/L
16A	Compliance	E002	09/21/2023	Boron, total	0.760	mg/L
16A	Compliance	E002	09/21/2023	Cadmium, total	0.00017 U	mg/L
16A	Compliance	E002	09/21/2023	Calcium, total	35.0	mg/L
16A	Compliance	E002	09/21/2023	Chloride, total	130	mg/L
16A	Compliance	E002	09/21/2023	Chromium, total	0.0011 U	mg/L
16A	Compliance	E002	09/21/2023	Cobalt, total	0.0004 U	mg/L
16A	Compliance	E002	09/21/2023	Dissolved Oxygen	9.21	mg/L
16A	Compliance	E002	09/21/2023	Fluoride, total	0.82 J	mg/L
16A	Compliance	E002	09/21/2023	Lead, total	0.0005 UJ	mg/L
16A	Compliance	E002	09/21/2023	Lithium, total	0.0290	mg/L
16A	Compliance	E002	09/21/2023	Mercury, total	0.000079 U	mg/L
16A	Compliance	E002	09/21/2023	Molybdenum, total	0.0025 U	mg/L
16A	Compliance	E002	09/21/2023	Oxidation Reduction Potential	110	mV
16A	Compliance	E002	09/21/2023	pH (field)	6.7	SU
16A	Compliance	E002	09/21/2023	Selenium, total	0.00098 U	mg/L
16A	Compliance	E002	09/21/2023	Specific Conductance @ 25C (field)	0.00200	micromhos/cm
16A	Compliance	E002	09/21/2023	Sulfate, total	9.40	mg/L
16A	Compliance	E002	09/21/2023	Temperature	21.6	degrees C
16A	Compliance	E002	09/21/2023	Thallium, total	0.00057 U	mg/L
16A	Compliance	E002	09/21/2023	Total Dissolved Solids	660	mg/L
16A	Compliance	E002	09/21/2023	Turbidity, field	4.61	NTU
35D	Compliance	E002	09/22/2023	Antimony, total	0.0013 U	mg/L
35D	Compliance	E002	09/22/2023	Arsenic, total	0.00510	mg/L
35D	Compliance	E002	09/22/2023	Barium, total	0.0280	mg/L
35D	Compliance	E002	09/22/2023	Beryllium, total	0.00053 U	mg/L
35D	Compliance	E002	09/22/2023	Boron, total	1.80	mg/L
35D	Compliance	E002	09/22/2023	Cadmium, total	0.00017 U	mg/L
35D	Compliance	E002	09/22/2023	Calcium, total	96.0	mg/L
35D	Compliance	E002	09/22/2023	Chloride, total	460	mg/L
35D	Compliance	E002	09/22/2023	Chromium, total	0.0011 U	mg/L
35D	Compliance	E002	09/22/2023	Cobalt, total	0.00043 J	mg/L
35D	Compliance	E002	09/22/2023	Dissolved Oxygen	0.0800	mg/L
35D	Compliance	E002	09/22/2023	Fluoride, total	0.82 J	mg/L
35D	Compliance	E002	09/22/2023	Lead, total	0.000850 J+	mg/L
35D	Compliance	E002	09/22/2023	Lithium, total	0.120	mg/L
35D	Compliance	E002	09/22/2023	Mercury, total	0.000079 U	mg/L
35D	Compliance	E002	09/22/2023	Molybdenum, total	0.00500	mg/L
35D	Compliance	E002	09/22/2023	Oxidation Reduction Potential	-132	mV

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VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
35D	Compliance	E002	09/22/2023	pH (field)	7.3	SU
35D	Compliance	E002	09/22/2023	Selenium, total	0.00098 U	mg/L
35D	Compliance	E002	09/22/2023	Specific Conductance @ 25C (field)	4,516	micromhos/cm
35D	Compliance	E002	09/22/2023	Sulfate, total	1,400	mg/L
35D	Compliance	E002	09/22/2023	Temperature	13.7	degrees C
35D	Compliance	E002	09/22/2023	Thallium, total	0.00057 U	mg/L
35D	Compliance	E002	09/22/2023	Total Dissolved Solids	3,700	mg/L
35D	Compliance	E002	09/22/2023	Turbidity, field	3.10	NTU
70S	Compliance	E002	09/19/2023	Antimony, total	0.0013 U	mg/L
70S	Compliance	E002	09/19/2023	Arsenic, total	0.001 UJ	mg/L
70S	Compliance	E002	09/19/2023	Barium, total	0.0160	mg/L
70S	Compliance	E002	09/19/2023	Beryllium, total	0.00053 U	mg/L
70S	Compliance	E002	09/19/2023	Boron, total	0.510	mg/L
70S	Compliance	E002	09/19/2023	Cadmium, total	0.00017 U	mg/L
70S	Compliance	E002	09/19/2023	Calcium, total	210	mg/L
70S	Compliance	E002	09/19/2023	Chloride, total	17.0	mg/L
70S	Compliance	E002	09/19/2023	Chromium, total	0.0011 U	mg/L
70S	Compliance	E002	09/19/2023	Cobalt, total	0.00051 J	mg/L
70S	Compliance	E002	09/19/2023	Dissolved Oxygen	0	mg/L
70S	Compliance	E002	09/19/2023	Fluoride, total	0.29 J	mg/L
70S	Compliance	E002	09/19/2023	Lead, total	0.00019 U	mg/L
70S	Compliance	E002	09/19/2023	Lithium, total	0.0190	mg/L
70S	Compliance	E002	09/19/2023	Mercury, total	0.000079 U	mg/L
70S	Compliance	E002	09/19/2023	Molybdenum, total	0.00500	mg/L
70S	Compliance	E002	09/19/2023	Oxidation Reduction Potential	83.5	mV
70S	Compliance	E002	09/19/2023	pH (field)	7.1	SU
70S	Compliance	E002	09/19/2023	Selenium, total	0.00098 U	mg/L
70S	Compliance	E002	09/19/2023	Specific Conductance @ 25C (field)	1,347	micromhos/cm
70S	Compliance	E002	09/19/2023	Sulfate, total	670	mg/L
70S	Compliance	E002	09/19/2023	Temperature	12.7	degrees C
70S	Compliance	E002	09/19/2023	Thallium, total	0.00057 U	mg/L
70S	Compliance	E002	09/19/2023	Total Dissolved Solids	1,300	mg/L
70S	Compliance	E002	09/19/2023	Turbidity, field	572	NTU
70D	Compliance	E002	09/19/2023	Antimony, total	0.0013 U	mg/L
70D	Compliance	E002	09/19/2023	Arsenic, total	0.001 UJ	mg/L
70D	Compliance	E002	09/19/2023	Barium, total	0.380	mg/L
70D	Compliance	E002	09/19/2023	Beryllium, total	0.00053 U	mg/L
70D	Compliance	E002	09/19/2023	Boron, total	1.40	mg/L
70D	Compliance	E002	09/19/2023	Cadmium, total	0.00017 U	mg/L
70D	Compliance	E002	09/19/2023	Calcium, total	77.0	mg/L
70D	Compliance	E002	09/19/2023	Chloride, total	570	mg/L
70D	Compliance	E002	09/19/2023	Chromium, total	0.0011 J	mg/L
70D	Compliance	E002	09/19/2023	Cobalt, total	0.00100	mg/L
70D	Compliance	E002	09/19/2023	Dissolved Oxygen	0.340	mg/L
70D	Compliance	E002	09/19/2023	Fluoride, total	0.35 J	mg/L
70D	Compliance	E002	09/19/2023	Lead, total	0.0005 UJ	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
70D	Compliance	E002	09/19/2023	Lithium, total	0.0950	mg/L
70D	Compliance	E002	09/19/2023	Mercury, total	0.000079 U	mg/L
70D	Compliance	E002	09/19/2023	Molybdenum, total	0.0025 U	mg/L
70D	Compliance	E002	09/19/2023	Oxidation Reduction Potential	63.6	mV
70D	Compliance	E002	09/19/2023	pH (field)	6.9	SU
70D	Compliance	E002	09/19/2023	Selenium, total	0.00098 U	mg/L
70D	Compliance	E002	09/19/2023	Specific Conductance @ 25C (field)	2,539	micromhos/cm
70D	Compliance	E002	09/19/2023	Sulfate, total	46.0	mg/L
70D	Compliance	E002	09/19/2023	Temperature	13.3	degrees C
70D	Compliance	E002	09/19/2023	Thallium, total	0.00057 U	mg/L
70D	Compliance	E002	09/19/2023	Total Dissolved Solids	1,700	mg/L
70D	Compliance	E002	09/19/2023	Turbidity, field	5.48	NTU
71D	Compliance	E002	09/19/2023	Dissolved Oxygen	3.18	mg/L
71D	Compliance	E002	09/19/2023	Oxidation Reduction Potential	140	mV
71D	Compliance	E002	09/19/2023	pH (field)	7.1	SU
71D	Compliance	E002	09/19/2023	Specific Conductance @ 25C (field)	4,021	micromhos/cm
71D	Compliance	E002	09/19/2023	Temperature	21.7	degrees C
71D	Compliance	E002	09/19/2023	Turbidity, field	10.8	NTU

Notes:
C = Celsius
cm = centimeter
mg/L = milligrams per liter
mV = millivolts
NTU = Nephelometric Turbidity Units
pCi/L = picocuries per liter
SU = Standard Units
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- = The result is an estimated quantity, but the result may be biased low.
J+ = The result is an estimated quantity, but the result may be biased high.
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
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	E002	Antimony, total	mg/L	04/01/21 - 09/21/23	9	89	CI around median	0.001	0.006	Standard	No Exceedance
16A	BCU	E002	Arsenic, total	mg/L	04/01/21 - 09/21/23	9	0	CI around mean	0.000978	0.010	Standard	No Exceedance
16A	BCU	E002	Barium, total	mg/L	04/01/21 - 09/21/23	9	0	CI around mean	0.24	2.0	Standard	No Exceedance
16A	BCU	E002	Beryllium, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.001	0.004	Standard	No Exceedance
16A	BCU	E002	Boron, total	mg/L	04/01/21 - 09/21/23	9	0	CI around mean	0.678	2	Standard	No Exceedance
16A	BCU	E002	Cadmium, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
16A	BCU	E002	Chloride, total	mg/L	04/01/21 - 09/21/23	9	0	CI around mean	121	200	Standard	No Exceedance
16A	BCU	E002	Chromium, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.005	0.1	Standard	No Exceedance
16A	BCU	E002	Cobalt, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.001	0.0900	Background	No Exceedance
16A	BCU	E002	Fluoride, total	mg/L	04/01/21 - 09/21/23	9	11	CI around mean	0.628	4.0	Standard	No Exceedance
16A	BCU	E002	Lead, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
16A	BCU	E002	Lithium, total	mg/L	04/01/21 - 09/21/23	9	0	CI around mean	0.0291	0.04	Standard	No Exceedance
16A	BCU	E002	Mercury, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
16A	BCU	E002	Molybdenum, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.005	0.1	Standard	No Exceedance
16A	BCU	E002	pH (field)	SU	04/01/21 - 09/21/23	14	0	CI around median	7.2/7.4	6.3/9.0	Background/Standard	No Exceedance
16A	BCU	E002	Selenium, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
16A	BCU	E002	Sulfate, total	mg/L	04/01/21 - 09/21/23	14	5	CI around mean	14.5	400	Standard	No Exceedance
16A	BCU	E002	Thallium, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.002	0.002	Standard	No Exceedance
16A	BCU	E002	Total Dissolved Solids	mg/L	04/01/21 - 09/21/23	14	0	CI around mean	640	1,200	Standard	No Exceedance
35D	BCU	E002	Antimony, total	mg/L	04/01/21 - 09/22/23	10	70	CI around median	0.001	0.006	Standard	No Exceedance
35D	BCU	E002	Arsenic, total	mg/L	04/01/21 - 09/22/23	10	10	CI around mean	0.0016	0.010	Standard	No Exceedance
35D	BCU	E002	Barium, total	mg/L	04/01/21 - 09/22/23	10	0	CI around median	0.0261	2.0	Standard	No Exceedance
35D	BCU	E002	Beryllium, total	mg/L	04/01/21 - 09/22/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
35D	BCU	E002	Boron, total	mg/L	04/01/21 - 09/22/23	10	0	CI around mean	1.55	2	Standard	No Exceedance
35D	BCU	E002	Cadmium, total	mg/L	04/01/21 - 09/22/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
35D	BCU	E002	Chloride, total	mg/L	04/01/21 - 09/22/23	10	0	CI around mean	271	200	Standard	Exceedance
35D	BCU	E002	Chromium, total	mg/L	04/01/21 - 09/22/23	10	70	CI around median	0.0015	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
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
35D	BCU	E002	Cobalt, total	mg/L	04/01/21 - 09/22/23	10	30	CI around geomean	0.000904	0.0900	Background	No Exceedance
35D	BCU	E002	Fluoride, total	mg/L	04/01/21 - 09/22/23	10	10	CI around median	0.65	4.0	Standard	No Exceedance
35D	BCU	E002	Lead, total	mg/L	04/01/21 - 09/22/23	10	40	CI around geomean	0.000801	0.0075	Standard	No Exceedance
35D	BCU	E002	Lithium, total	mg/L	04/01/21 - 09/22/23	10	0	CI around mean	0.107	0.04	Standard	Exceedance
35D	BCU	E002	Mercury, total	mg/L	04/01/21 - 09/22/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
35D	BCU	E002	Molybdenum, total	mg/L	04/01/21 - 09/22/23	10	10	CI around mean	0.0107	0.1	Standard	No Exceedance
35D	BCU	E002	pH (field)	SU	04/01/21 - 09/22/23	14	0	CI around median	7.2/7.7	6.3/9.0	Background/Standard	No Exceedance
35D	BCU	E002	Selenium, total	mg/L	04/01/21 - 09/22/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
35D	BCU	E002	Sulfate, total	mg/L	04/01/21 - 09/22/23	15	0	CI around mean	1,060	400	Standard	Exceedance
35D	BCU	E002	Thallium, total	mg/L	04/01/21 - 09/22/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
35D	BCU	E002	Total Dissolved Solids	mg/L	04/01/21 - 09/22/23	15	0	CI around mean	2,610	1,200	Standard	Exceedance
70S	UU	E002	Antimony, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
70S	UU	E002	Arsenic, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.001	0.010	Standard	No Exceedance
70S	UU	E002	Barium, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	0.0162	2.0	Standard	No Exceedance
70S	UU	E002	Beryllium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
70S	UU	E002	Boron, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	0.347	2	Standard	No Exceedance
70S	UU	E002	Cadmium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
70S	UU	E002	Chloride, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	13.4	200	Standard	No Exceedance
70S	UU	E002	Chromium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.005	0.1	Standard	No Exceedance
70S	UU	E002	Cobalt, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.001	0.0900	Background	No Exceedance
70S	UU	E002	Fluoride, total	mg/L	04/01/21 - 09/19/23	10	10	CB around T-S line	0.14	4.0	Standard	No Exceedance
70S	UU	E002	Lead, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
70S	UU	E002	Lithium, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	0.0116	0.04	Standard	No Exceedance
70S	UU	E002	Mercury, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
70S	UU	E002	Molybdenum, total	mg/L	04/01/21 - 09/19/23	10	10	CI around mean	0.00499	0.1	Standard	No Exceedance
70S	UU	E002	pH (field)	SU	04/01/21 - 09/19/23	10	0	CI around mean	6.9/7.0	6.3/9.0	Background/Standard	No Exceedance
70S	UU	E002	Selenium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
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	E002	Sulfate, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	598	400	Standard	Exceedance
70S	UU	E002	Thallium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
70S	UU	E002	Total Dissolved Solids	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	1,220	1,200	Standard	Exceedance
70D	BCU	E002	Antimony, total	mg/L	04/01/21 - 09/19/23	10	80	CI around median	0.001	0.006	Standard	No Exceedance
70D	BCU	E002	Arsenic, total	mg/L	04/01/21 - 09/19/23	10	50	CI around mean	0.000443	0.010	Standard	No Exceedance
70D	BCU	E002	Barium, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	0.445	2.0	Standard	No Exceedance
70D	BCU	E002	Beryllium, total	mg/L	04/01/21 - 09/19/23	10	70	CI around median	0.001	0.004	Standard	No Exceedance
70D	BCU	E002	Boron, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	1.09	2	Standard	No Exceedance
70D	BCU	E002	Cadmium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
70D	BCU	E002	Chloride, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	503	200	Standard	Exceedance
70D	BCU	E002	Chromium, total	mg/L	04/01/21 - 09/19/23	10	20	CI around geomean	0.00352	0.1	Standard	No Exceedance
70D	BCU	E002	Cobalt, total	mg/L	04/01/21 - 09/19/23	10	10	CI around geomean	0.00161	0.0900	Background	No Exceedance
70D	BCU	E002	Fluoride, total	mg/L	04/01/21 - 09/19/23	10	10	CI around mean	0.399	4.0	Standard	No Exceedance
70D	BCU	E002	Lead, total	mg/L	04/01/21 - 09/19/23	10	20	CI around geomean	0.00144	0.0075	Standard	No Exceedance
70D	BCU	E002	Lithium, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	0.0698	0.04	Standard	Exceedance
70D	BCU	E002	Mercury, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
70D	BCU	E002	Molybdenum, total	mg/L	04/01/21 - 09/19/23	10	20	CB around linear reg	-0.031	0.1	Standard	No Exceedance
70D	BCU	E002	pH (field)	SU	04/01/21 - 09/19/23	10	0	CB around linear reg	6.2/7.4	6.3/9.0	Background/Standard	No Exceedance
70D	BCU	E002	Selenium, total	mg/L	04/01/21 - 09/19/23	10	80	CI around median	0.001	0.05	Standard	No Exceedance
70D	BCU	E002	Sulfate, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	47.5	400	Standard	No Exceedance
70D	BCU	E002	Thallium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
70D	BCU	E002	Total Dissolved Solids	mg/L	04/01/21 - 09/19/23	10	0	CB around linear reg	871	1,200	Standard	No Exceedance
71D	BCU	E002	pH (field)	SU	04/01/21 - 09/19/23	5	0	CI around mean	6.7/7.6	6.3/9.0	Background/Standard	No Exceedance

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

HSU = hydrostratigraphic unit:

BCU = Bedrock Confining Unit

UU = Upper Unit

mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range
For pH, the values presented are the lower / upper limits
GWPS = Groundwater Protection Standard
GWPS Source:

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

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

ATTACHMENTS

ATTACHMENT A
GROUNDWATER ELEVATION DATA
QUARTER 3, 2023

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 3, 2023
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	09/18/2023	50.58	608.51
16B	Compliance	09/18/2023	Dry	
16A	Compliance	09/18/2023	9.40	570.92
22	Background	09/18/2023	56.51	602.11
35D	Compliance	09/18/2023	11.51	572.63
70S	Compliance	09/18/2023	15.97	577.77
70D	Compliance	09/18/2023	30.25	564.27
71S	Compliance	09/18/2023	12.72	566.84
71D	Compliance	09/18/2023	37.70	542.19
NED1	Water Level	09/18/2023	4.75	595.32

Notes:
Only wells with groundwater elevations measured are included.
BMP = below measuring point
NAVD88 = North American Vertical Datum of 1988

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
10188 E 2150 North Rd
Danville, Illinois 61834

Generated 11/16/23 11:34:59

JOB DESCRIPTION

VER-23Q3
VER_845_912

JOB NUMBER

500-239823-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

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

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

Authorization

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Table of Contents

Case Narrative

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Job ID: 500-239823-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-239823-1

Receipt
The samples were received on 9/20/2023 11:18 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 17 coolers at receipt time were 0.4º C, 0.8º C, 1.3º C, 1.5º C, 1.6º C, 1.6º C, 1.8º C, 2.2º C, 2.4º C, 2.4º C, 2.5º C, 2.6º C, 2.7º C, 3.3º C, 4.6º C, 5.1º C and 5.3º C.

Receipt Exceptions
Method Field Sampling: Field pH entered from reading at 15:24, which was consistent with the range measured up until that point. The two following readings of 66.54 at 15:29 and 103.6 at the sample collection time of 15:34 are highly anomalous values for the parameter measured. All other parameters at 15:34 were consistent with previous readings and were entered as usual. Affected sample: VER_070&D (500-239823-5).

No analytical sample was collected as well was purged dry. Last field readings collected entered.

Metals
Method 6020B: The initial calibration verification (ICV) result for batch 736355 was not spiked for B- and the initial low level calibration verification (ICVL) was not spiked for Cr. Only the MB and LCS for prep batch 733347 were reported and both were within control limits. All samples were run in another batch with in control QC.

Method 7470A: Elevated reporting limits are provided for the following samples due to insufficient sample left for re-prep: VER_022 (500-239823-6) and (500-239823-G-6 DU).

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

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

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_070#S — Lab Sample ID: 500-239823-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.019		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00087	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.016		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.51	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	210		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00051	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0050		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	17		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.29	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	670		50	10	mg/L	50		300.0	Total/NA
Total Dissolved Solids	1300		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	15.97				ft	1		Field Sampling	Total/NA
Field pH	7.09				SU	1		Field Sampling	Total/NA
Field Temperature	12.67				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	83.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.00				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1347.1				umhos/cm	1		Field Sampling	Total/NA
Turbidity	572.11				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_070#SDUP — Lab Sample ID: 500-239823-2

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	0.0010		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.017		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.50	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	210		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00051	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00029	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0048	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	17		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.26	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	670		50	10	mg/L	50		300.0	Total/NA
Total Dissolved Solids	1300		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	15.97				ft	1		Field Sampling	Total/NA
Field pH	7.09				SU	1		Field Sampling	Total/NA
Field Temperature	12.67				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	83.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.00				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1347.1				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_070#SDUP (Continued) — Lab Sample ID: 500-239823-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	572.11				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_010 — Lab Sample ID: 500-239823-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.014		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0010		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.069		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.047	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	160		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.013		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Chloride	4.6		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.19	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	230		20	4.1	mg/L	20		300.0	Total/NA
Total Dissolved Solids	890		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	50.64				ft	1		Field Sampling	Total/NA
Field pH	6.94				SU	1		Field Sampling	Total/NA
Field Temperature	16.48				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	195.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.96				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1386.9				umhos/cm	1		Field Sampling	Total/NA
Turbidity	43.84				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_010DUP — Lab Sample ID: 500-239823-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.015		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00093	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.068		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.039	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	150		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.017		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Chloride	4.4		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	240		20	4.1	mg/L	20		300.0	Total/NA
Total Dissolved Solids	920		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	50.64				ft	1		Field Sampling	Total/NA
Field pH	6.94				SU	1		Field Sampling	Total/NA
Field Temperature	16.48				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	195.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.96				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1386.9				umhos/cm	1		Field Sampling	Total/NA
Turbidity	43.84				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_070&D — Lab Sample ID: 500-239823-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.095		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00071	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.38		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.4	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	77		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0011	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0010		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00046	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	570		50	5.8	mg/L	50		300.0	Total/NA
Fluoride	0.35	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	46		1.0	0.21	mg/L	1		300.0	Total/NA
Total Dissolved Solids	1700		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	30.25				ft	1		Field Sampling	Total/NA
Field pH	6.94				SU	1		Field Sampling	Total/NA
Field Temperature	13.29				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	63.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.34				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2539.10				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.48				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_022 — Lab Sample ID: 500-239823-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.035		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00040	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.074		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.39	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	39	F1	0.20	0.044	mg/L	1		6020B	Total Recoverable
Chloride	16		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.45	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	33		1.0	0.21	mg/L	1		300.0	Total/NA
Total Dissolved Solids	470		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	56.33				ft	1		Field Sampling	Total/NA
Field pH	7.42				SU	1		Field Sampling	Total/NA
Field Temperature	13.91				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-10.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.83				mg/L	1		Field Sampling	Total/NA
Specific Conductance	0.07				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.00				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_016A — Lab Sample ID: 500-239823-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.029		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0013		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.30		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.76		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	35		0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00047	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	130		5.0	0.58	mg/L	5		300.0	Total/NA
Fluoride	0.82	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	9.4		1.0	0.21	mg/L	1		300.0	Total/NA
Total Dissolved Solids	660		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	9.60				ft	1		Field Sampling	Total/NA
Field pH	6.71				SU	1		Field Sampling	Total/NA
Field Temperature	21.58				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	110				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	9.21				mg/L	1		Field Sampling	Total/NA
Specific Conductance	0.002				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.61				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_035&D — Lab Sample ID: 500-239823-27

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	0.0051		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.028		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.8	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	96		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00043	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00085		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0050		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	460		100	12	mg/L	100		300.0	Total/NA
Fluoride	0.82	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	1400		100	21	mg/L	100		300.0	Total/NA
Total Dissolved Solids	3700		17	7.2	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	11.3				ft	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Temperature	13.73				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-132.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.08				mg/L	1		Field Sampling	Total/NA
Specific Conductance	4516				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.1				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_035&D-DUP — Lab Sample ID: 500-239823-28

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	0.0042		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.028		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.8	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	96		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00044	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00062		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0044	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	460		100	12	mg/L	100		300.0	Total/NA
Fluoride	0.81	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	1400		100	21	mg/L	100		300.0	Total/NA
Total Dissolved Solids	3800		17	7.2	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	11.3				ft	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Temperature	13.73				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-132.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.08				mg/L	1		Field Sampling	Total/NA
Specific Conductance	4516				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.1				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_FB/EB-1 — Lab Sample ID: 500-239823-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00031	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Boron	0.022	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	0.046	J	0.20	0.044	mg/L	1		6020B	Total Recoverable
Chloride	0.21	J	1.0	0.12	mg/L	1		300.0	Total/NA

Client Sample ID: VER_NED1 — Lab Sample ID: 500-239823-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	5.21				ft	1		Field Sampling	Total/NA

Client Sample ID: VER_EB-1 — Lab Sample ID: 500-239823-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	0.054	J	0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00020	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	0.17	J	1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	3.4		1.0	0.21	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-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_071&D — Lab Sample ID: 500-239823-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	37.25				ft	1		Field Sampling	Total/NA
Field pH	7.10				SU	1		Field Sampling	Total/NA
Field Temperature	21.74				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	139.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.18				mg/L	1		Field Sampling	Total/NA
Specific Conductance	4020.70				umhos/cm	1		Field Sampling	Total/NA
Turbidity	10.85				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
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 2540C	Solids, Total Dissolved (TDS)	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-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-239823-1	VER_070#S	Water	09/19/23 13:45	09/20/23 11:18
500-239823-2	VER_070#SDUP	Water	09/19/23 13:50	09/20/23 11:18
500-239823-3	VER_010	Water	09/19/23 10:15	09/20/23 11:18
500-239823-4	VER_010DUP	Water	09/19/23 10:20	09/20/23 11:18
500-239823-5	VER_070&D	Water	09/19/23 15:35	09/20/23 11:18
500-239823-6	VER_022	Water	09/19/23 10:20	09/20/23 11:18
500-239823-17	VER_016A	Water	09/21/23 16:10	09/22/23 11:09
500-239823-27	VER_035&D	Water	09/22/23 09:35	09/22/23 14:10
500-239823-28	VER_035&D-DUP	Water	09/22/23 09:40	09/22/23 14:10
500-239823-29	VER_FB/EB-1	Water	09/25/23 18:00	09/26/23 11:13
500-239823-34	VER_NED1	Water	09/26/23 13:36	09/27/23 11:31
500-239823-35	VER_EB-1	Water	09/26/23 17:00	09/27/23 11:31
500-239823-37	VER_071&D	Water	09/19/23 15:24	09/27/23 11:31

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_070#S

Date Collected: 09/19/23 13:45
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-1

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	**0.019**		0.0050	0.0020	mg/L		09/21/23 08:30	09/27/23 14:45	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		09/21/23 08:28	10/10/23 19:49	1
Arsenic	**0.00087**	**J**	0.0010	0.00023	mg/L		09/21/23 08:28	10/10/23 19:49	1
Barium	**0.016**		0.0025	0.00073	mg/L		09/21/23 08:28	10/10/23 19:49	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/21/23 08:28	10/10/23 19:49	1
Boron	**0.51**	**B**	0.050	0.013	mg/L		09/21/23 08:28	10/11/23 22:13	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/21/23 08:28	10/10/23 19:49	1
Calcium	**210**		0.20	0.044	mg/L		09/21/23 08:28	10/10/23 19:49	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/21/23 08:28	10/11/23 22:13	1
Cobalt	**0.00051**	**J**	0.0010	0.00040	mg/L		09/21/23 08:28	10/10/23 19:49	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/21/23 08:28	10/10/23 19:49	1
Molybdenum	**0.0050**		0.0050	0.0025	mg/L		09/21/23 08:28	10/10/23 19:49	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/21/23 08:28	10/10/23 19:49	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/21/23 08:28	10/10/23 19:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/26/23 14:55	09/27/23 12:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**17**		1.0	0.12	mg/L			09/28/23 19:53	1
Fluoride (EPA 300.0)	**0.29**	**J**	1.0	0.19	mg/L			09/28/23 19:53	1
Sulfate (EPA 300.0)	**670**		50	10	mg/L			09/28/23 20:08	50
Total Dissolved Solids (SM 2540C)	**1300**		10	4.3	mg/L			09/20/23 21:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**15.97**				ft			09/19/23 13:45	1
Field pH	**7.09**				SU			09/19/23 13:45	1
Field Temperature	**12.67**				Degrees C			09/19/23 13:45	1
Oxidation Reduction Potential	**83.5**				millivolts			09/19/23 13:45	1
Oxygen, Dissolved	**0.00**				mg/L			09/19/23 13:45	1
Specific Conductance	**1347.1**				umhos/cm			09/19/23 13:45	1
Turbidity	**572.11**				NTU			09/19/23 13:45	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_070#SDUP

Date Collected: 09/19/23 13:50
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-2

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	0.018		0.0050	0.0020	mg/L		09/21/23 08:30	09/27/23 14:49	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		09/21/23 08:28	10/10/23 19:53	1
Arsenic	0.0010		0.0010	0.00023	mg/L		09/21/23 08:28	10/10/23 19:53	1
Barium	0.017		0.0025	0.00073	mg/L		09/21/23 08:28	10/10/23 19:53	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/21/23 08:28	10/10/23 19:53	1
Boron	0.50	B	0.050	0.013	mg/L		09/21/23 08:28	10/11/23 22:17	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/21/23 08:28	10/10/23 19:53	1
Calcium	210		0.20	0.044	mg/L		09/21/23 08:28	10/10/23 19:53	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/21/23 08:28	10/11/23 22:17	1
Cobalt	0.00051	J	0.0010	0.00040	mg/L		09/21/23 08:28	10/10/23 19:53	1
Lead	0.00029	J	0.00050	0.00019	mg/L		09/21/23 08:28	10/10/23 19:53	1
Molybdenum	0.0048	J	0.0050	0.0025	mg/L		09/21/23 08:28	10/10/23 19:53	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/21/23 08:28	10/10/23 19:53	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/21/23 08:28	10/10/23 19:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/26/23 14:55	09/27/23 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	17		1.0	0.12	mg/L			09/28/23 20:23	1
Fluoride (EPA 300.0)	0.26	J	1.0	0.19	mg/L			09/28/23 20:23	1
Sulfate (EPA 300.0)	670		50	10	mg/L			09/28/23 21:08	50
Total Dissolved Solids (SM 2540C)	1300		10	4.3	mg/L			09/20/23 21:15	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	15.97				ft			09/19/23 13:50	1
Field pH	7.09				SU			09/19/23 13:50	1
Field Temperature	12.67				Degrees C			09/19/23 13:50	1
Oxidation Reduction Potential	83.5				millivolts			09/19/23 13:50	1
Oxygen, Dissolved	0.00				mg/L			09/19/23 13:50	1
Specific Conductance	1347.1				umhos/cm			09/19/23 13:50	1
Turbidity	572.11				NTU			09/19/23 13:50	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_010
Date Collected: 09/19/23 10:15
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-3
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	**0.014**		0.0050	0.0020	mg/L		09/21/23 08:30	09/27/23 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/21/23 08:28	10/10/23 19:57	1
Arsenic	**0.0010**		0.0010	0.00023	mg/L		09/21/23 08:28	10/10/23 19:57	1
Barium	**0.069**		0.0025	0.00073	mg/L		09/21/23 08:28	10/10/23 19:57	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/21/23 08:28	10/10/23 19:57	1
Boron	**0.047**	**J B**	0.050	0.013	mg/L		09/21/23 08:28	10/11/23 22:21	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/21/23 08:28	10/10/23 19:57	1
Calcium	**160**		0.20	0.044	mg/L		09/21/23 08:28	10/10/23 19:57	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/21/23 08:28	10/11/23 22:21	1
Cobalt	**0.013**		0.0010	0.00040	mg/L		09/21/23 08:28	10/10/23 19:57	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/21/23 08:28	10/10/23 19:57	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/21/23 08:28	10/10/23 19:57	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/21/23 08:28	10/10/23 19:57	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/21/23 08:28	10/10/23 19:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/26/23 14:55	09/27/23 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**4.6**		1.0	0.12	mg/L			09/28/23 21:24	1
Fluoride (EPA 300.0)	**0.19**	**J**	1.0	0.19	mg/L			09/28/23 21:24	1
Sulfate (EPA 300.0)	**230**		20	4.1	mg/L			09/28/23 21:39	20
Total Dissolved Solids (SM 2540C)	**890**		10	4.3	mg/L			09/20/23 21:18	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**50.64**				ft			09/19/23 10:15	1
Field pH	**6.94**				SU			09/19/23 10:15	1
Field Temperature	**16.48**				Degrees C			09/19/23 10:15	1
Oxidation Reduction Potential	**195.7**				millivolts			09/19/23 10:15	1
Oxygen, Dissolved	**2.96**				mg/L			09/19/23 10:15	1
Specific Conductance	**1386.9**				umhos/cm			09/19/23 10:15	1
Turbidity	**43.84**				NTU			09/19/23 10:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_010DUP

Date Collected: 09/19/23 10:20
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-4

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	**0.015**		0.0050	0.0020	mg/L		09/21/23 08:30	09/27/23 14:59	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		09/21/23 08:28	10/10/23 20:02	1
Arsenic	**0.00093**	**J**	0.0010	0.00023	mg/L		09/21/23 08:28	10/10/23 20:02	1
Barium	**0.068**		0.0025	0.00073	mg/L		09/21/23 08:28	10/10/23 20:02	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/21/23 08:28	10/10/23 20:02	1
Boron	**0.039**	**J B**	0.050	0.013	mg/L		09/21/23 08:28	10/11/23 22:25	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/21/23 08:28	10/10/23 20:02	1
Calcium	**150**		0.20	0.044	mg/L		09/21/23 08:28	10/10/23 20:02	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/21/23 08:28	10/11/23 22:25	1
Cobalt	**0.017**		0.0010	0.00040	mg/L		09/21/23 08:28	10/10/23 20:02	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/21/23 08:28	10/10/23 20:02	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/21/23 08:28	10/10/23 20:02	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/21/23 08:28	10/10/23 20:02	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/21/23 08:28	10/10/23 20:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/26/23 14:55	09/27/23 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**4.4**		1.0	0.12	mg/L			09/28/23 22:55	1
Fluoride (EPA 300.0)	<1.0		1.0	0.19	mg/L			09/28/23 22:55	1
Sulfate (EPA 300.0)	**240**		20	4.1	mg/L			09/28/23 23:10	20
Total Dissolved Solids (SM 2540C)	**920**		10	4.3	mg/L			09/20/23 21:21	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**50.64**				ft			09/19/23 10:20	1
Field pH	**6.94**				SU			09/19/23 10:20	1
Field Temperature	**16.48**				Degrees C			09/19/23 10:20	1
Oxidation Reduction Potential	**195.7**				millivolts			09/19/23 10:20	1
Oxygen, Dissolved	**2.96**				mg/L			09/19/23 10:20	1
Specific Conductance	**1386.9**				umhos/cm			09/19/23 10:20	1
Turbidity	**43.84**				NTU			09/19/23 10:20	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_070&D
Date Collected: 09/19/23 15:35
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-5
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	**0.095**		0.0050	0.0020	mg/L		09/21/23 08:30	09/27/23 15:04	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		09/21/23 08:28	10/10/23 20:15	1
Arsenic	**0.00071**	**J**	0.0010	0.00023	mg/L		09/21/23 08:28	10/10/23 20:15	1
Barium	**0.38**		0.0025	0.00073	mg/L		09/21/23 08:28	10/10/23 20:15	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/21/23 08:28	10/10/23 20:15	1
Boron	**1.4**	**B**	0.050	0.013	mg/L		09/21/23 08:28	10/11/23 22:29	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/21/23 08:28	10/10/23 20:15	1
Calcium	**77**		0.20	0.044	mg/L		09/21/23 08:28	10/10/23 20:15	1
Chromium	**0.0011**	**J**	0.0050	0.0011	mg/L		09/21/23 08:28	10/11/23 22:29	1
Cobalt	**0.0010**		0.0010	0.00040	mg/L		09/21/23 08:28	10/10/23 20:15	1
Lead	**0.00046**	**J**	0.00050	0.00019	mg/L		09/21/23 08:28	10/10/23 20:15	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/21/23 08:28	10/10/23 20:15	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/21/23 08:28	10/10/23 20:15	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/21/23 08:28	10/10/23 20:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/26/23 14:55	09/27/23 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**570**		50	5.8	mg/L			09/29/23 00:26	50
Fluoride (EPA 300.0)	**0.35**	**J**	1.0	0.19	mg/L			09/28/23 23:25	1
Sulfate (EPA 300.0)	**46**		1.0	0.21	mg/L			09/28/23 23:25	1
Total Dissolved Solids (SM 2540C)	**1700**		10	4.3	mg/L			09/20/23 21:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**30.25**				ft			09/19/23 15:35	1
Field pH	**6.94**				SU			09/19/23 15:35	1
Field Temperature	**13.29**				Degrees C			09/19/23 15:35	1
Oxidation Reduction Potential	**63.6**				millivolts			09/19/23 15:35	1
Oxygen, Dissolved	**0.34**				mg/L			09/19/23 15:35	1
Specific Conductance	**2539.10**				umhos/cm			09/19/23 15:35	1
Turbidity	**5.48**				NTU			09/19/23 15:35	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_022
Date Collected: 09/19/23 10:20
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-6
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	**0.035**		0.0050	0.0020	mg/L		09/21/23 08:30	09/27/23 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/21/23 08:28	10/10/23 20:19	1
Arsenic	**0.00040**	**J**	0.0010	0.00023	mg/L		09/21/23 08:28	10/10/23 20:19	1
Barium	**0.074**		0.0025	0.00073	mg/L		09/21/23 08:28	10/10/23 20:19	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/21/23 08:28	10/10/23 20:19	1
Boron	**0.39**	**B**	0.050	0.013	mg/L		09/21/23 08:28	10/11/23 22:33	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/21/23 08:28	10/10/23 20:19	1
Calcium	**39**	**F1**	0.20	0.044	mg/L		09/21/23 08:28	10/10/23 20:19	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/21/23 08:28	10/11/23 22:33	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/21/23 08:28	10/10/23 20:19	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/21/23 08:28	10/10/23 20:19	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/21/23 08:28	10/10/23 20:19	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/21/23 08:28	10/10/23 20:19	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/21/23 08:28	10/10/23 20:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00040	F1	0.00040	0.00016	mg/L		09/26/23 14:55	09/27/23 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**16**		1.0	0.12	mg/L			09/29/23 00:41	1
Fluoride (EPA 300.0)	**0.45**	**J**	1.0	0.19	mg/L			09/29/23 00:41	1
Sulfate (EPA 300.0)	**33**		1.0	0.21	mg/L			09/29/23 00:41	1
Total Dissolved Solids (SM 2540C)	**470**		10	4.3	mg/L			09/20/23 21:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**56.33**				ft			09/19/23 10:20	1
Field pH	**7.42**				SU			09/19/23 10:20	1
Field Temperature	**13.91**				Degrees C			09/19/23 10:20	1
Oxidation Reduction Potential	**-10.7**				millivolts			09/19/23 10:20	1
Oxygen, Dissolved	**0.83**				mg/L			09/19/23 10:20	1
Specific Conductance	**0.07**				umhos/cm			09/19/23 10:20	1
Turbidity	**0.00**				NTU			09/19/23 10:20	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_016A
Date Collected: 09/21/23 16:10
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-17
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	**0.029**		0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/27/23 09:34	10/10/23 23:04	1
Arsenic	**0.0013**		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 23:04	1
Barium	**0.30**		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 23:04	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 23:04	1
Boron	**0.76**		0.050	0.013	mg/L		09/27/23 09:34	10/11/23 16:55	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 23:04	1
Calcium	**35**		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 23:04	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 20:58	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 23:04	1
Lead	**0.00047**	**J**	0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 23:04	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 23:04	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 23:04	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 23:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/27/23 10:55	09/28/23 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**130**		5.0	0.58	mg/L			10/02/23 21:20	5
Fluoride (EPA 300.0)	**0.82**	**J**	1.0	0.19	mg/L			10/02/23 21:04	1
Sulfate (EPA 300.0)	**9.4**		1.0	0.21	mg/L			10/02/23 21:04	1
Total Dissolved Solids (SM 2540C)	**660**		10	4.3	mg/L			09/25/23 21:15	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**9.60**				ft			09/21/23 16:10	1
Field pH	**6.71**				SU			09/21/23 16:10	1
Field Temperature	**21.58**				Degrees C			09/21/23 16:10	1
Oxidation Reduction Potential	**110**				millivolts			09/21/23 16:10	1
Oxygen, Dissolved	**9.21**				mg/L			09/21/23 16:10	1
Specific Conductance	**0.002**				umhos/cm			09/21/23 16:10	1
Turbidity	**4.61**				NTU			09/21/23 16:10	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_035&D
Date Collected: 09/22/23 09:35
Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-27
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	**0.12**		0.0050	0.0020	mg/L		09/26/23 08:42	09/28/23 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/28/23 08:31	10/12/23 00:47	1
Arsenic	**0.0051**		0.0010	0.00023	mg/L		09/28/23 08:31	10/12/23 00:47	1
Barium	**0.028**		0.0025	0.00073	mg/L		09/28/23 08:31	10/12/23 00:47	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/28/23 08:31	10/12/23 00:47	1
Boron	**1.8**	**B**	0.050	0.013	mg/L		09/28/23 08:31	10/12/23 00:47	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/28/23 08:31	10/12/23 00:47	1
Calcium	**96**		0.20	0.044	mg/L		09/28/23 08:31	10/12/23 00:47	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/28/23 08:31	10/12/23 00:47	1
Cobalt	**0.00043**	**J**	0.0010	0.00040	mg/L		09/28/23 08:31	10/12/23 00:47	1
Lead	**0.00085**		0.00050	0.00019	mg/L		09/28/23 08:31	10/12/23 00:47	1
Molybdenum	**0.0050**		0.0050	0.0025	mg/L		09/28/23 08:31	10/12/23 00:47	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/28/23 08:31	10/12/23 00:47	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/28/23 08:31	10/12/23 00:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/28/23 10:25	09/29/23 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**460**		100	12	mg/L			10/03/23 02:48	100
Fluoride (EPA 300.0)	**0.82**	**J**	1.0	0.19	mg/L			10/03/23 02:32	1
Sulfate (EPA 300.0)	**1400**		100	21	mg/L			10/03/23 02:48	100
Total Dissolved Solids (SM 2540C)	**3700**		17	7.2	mg/L			09/25/23 21:41	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**11.3**				ft			09/22/23 09:35	1
Field pH	**7.33**				SU			09/22/23 09:35	1
Field Temperature	**13.73**				Degrees C			09/22/23 09:35	1
Oxidation Reduction Potential	**-132.5**				millivolts			09/22/23 09:35	1
Oxygen, Dissolved	**0.08**				mg/L			09/22/23 09:35	1
Specific Conductance	**4516**				umhos/cm			09/22/23 09:35	1
Turbidity	**3.1**				NTU			09/22/23 09:35	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_035&D-DUP

Date Collected: 09/22/23 09:40
Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-28

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		09/26/23 08:42	09/28/23 16:14	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		09/28/23 08:31	10/12/23 00:55	1
Arsenic	**0.0042**		0.0010	0.00023	mg/L		09/28/23 08:31	10/12/23 00:55	1
Barium	**0.028**		0.0025	0.00073	mg/L		09/28/23 08:31	10/12/23 00:55	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/28/23 08:31	10/12/23 00:55	1
Boron	**1.8**	**B**	0.050	0.013	mg/L		09/28/23 08:31	10/12/23 00:55	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/28/23 08:31	10/12/23 00:55	1
Calcium	**96**		0.20	0.044	mg/L		09/28/23 08:31	10/12/23 00:55	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/28/23 08:31	10/12/23 00:55	1
Cobalt	**0.00044**	**J**	0.0010	0.00040	mg/L		09/28/23 08:31	10/12/23 00:55	1
Lead	**0.00062**		0.00050	0.00019	mg/L		09/28/23 08:31	10/12/23 00:55	1
Molybdenum	**0.0044**	**J**	0.0050	0.0025	mg/L		09/28/23 08:31	10/12/23 00:55	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/28/23 08:31	10/12/23 00:55	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/28/23 08:31	10/12/23 00:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/28/23 10:25	09/29/23 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**460**		100	12	mg/L			10/03/23 03:19	100
Fluoride (EPA 300.0)	**0.81**	**J**	1.0	0.19	mg/L			10/03/23 03:04	1
Sulfate (EPA 300.0)	**1400**		100	21	mg/L			10/03/23 03:19	100
Total Dissolved Solids (SM 2540C)	**3800**		17	7.2	mg/L			09/25/23 21:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**11.3**				ft			09/22/23 09:40	1
Field pH	**7.33**				SU			09/22/23 09:40	1
Field Temperature	**13.73**				Degrees C			09/22/23 09:40	1
Oxidation Reduction Potential	**-132.5**				millivolts			09/22/23 09:40	1
Oxygen, Dissolved	**0.08**				mg/L			09/22/23 09:40	1
Specific Conductance	**4516**				umhos/cm			09/22/23 09:40	1
Turbidity	**3.1**				NTU			09/22/23 09:40	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_FB/EB-1

Date Collected: 09/25/23 18:00
Date Received: 09/26/23 11:13

Lab Sample ID: 500-239823-29

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		09/27/23 09:25	10/11/23 16:48	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		09/28/23 08:31	10/12/23 01:03	1
Arsenic	**0.00031**	**J**	0.0010	0.00023	mg/L		09/28/23 08:31	10/12/23 01:03	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/28/23 08:31	10/12/23 01:03	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/28/23 08:31	10/12/23 01:03	1
Boron	**0.022**	**J B**	0.050	0.013	mg/L		09/28/23 08:31	10/12/23 01:03	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/28/23 08:31	10/12/23 01:03	1
Calcium	**0.046**	**J**	0.20	0.044	mg/L		09/28/23 08:31	10/12/23 01:03	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/28/23 08:31	10/12/23 01:03	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/28/23 08:31	10/12/23 01:03	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/28/23 08:31	10/12/23 01:03	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/28/23 08:31	10/12/23 01:03	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/28/23 08:31	10/12/23 01:03	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/28/23 08:31	10/12/23 01:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/28/23 10:25	09/29/23 08:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**0.21**	**J**	1.0	0.12	mg/L			10/03/23 03:35	1
Fluoride (EPA 300.0)	<1.0		1.0	0.19	mg/L			10/03/23 03:35	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			10/03/23 03:35	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			09/26/23 22:36	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_NED1

Date Collected: 09/26/23 13:36
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-34

Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	5.21				ft			09/26/23 13:36	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_EB-1
Date Collected: 09/26/23 17:00
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-35
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		09/28/23 08:37	10/02/23 16:45	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		09/28/23 08:31	10/12/23 01:43	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		09/28/23 08:31	10/12/23 01:43	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/28/23 08:31	10/12/23 01:43	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/28/23 08:31	10/12/23 01:43	1
Boron	<0.050		0.050	0.013	mg/L		09/28/23 08:31	10/18/23 17:57	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/28/23 08:31	10/12/23 01:43	1
Calcium	**0.054**	**J**	0.20	0.044	mg/L		09/28/23 08:31	10/12/23 01:43	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/28/23 08:31	10/12/23 01:43	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/28/23 08:31	10/12/23 01:43	1
Lead	**0.00020**	**J**	0.00050	0.00019	mg/L		09/28/23 08:31	10/12/23 01:43	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/28/23 08:31	10/12/23 01:43	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/28/23 08:31	10/12/23 01:43	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/28/23 08:31	10/12/23 01:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/28/23 10:25	09/29/23 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**0.17**	**J**	1.0	0.12	mg/L			10/05/23 18:57	1
Fluoride (EPA 300.0)	<1.0		1.0	0.19	mg/L			10/05/23 18:57	1
Sulfate (EPA 300.0)	**3.4**		1.0	0.21	mg/L			10/05/23 18:57	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			09/29/23 03:09	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_071&D

Date Collected: 09/19/23 15:24
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-37

Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	37.25				ft			09/19/23 15:24	1
Field pH	7.10				SU			09/19/23 15:24	1
Field Temperature	21.74				Degrees C			09/19/23 15:24	1
Oxidation Reduction Potential	139.7				millivolts			09/19/23 15:24	1
Oxygen, Dissolved	3.18				mg/L			09/19/23 15:24	1
Specific Conductance	4020.70				umhos/cm			09/19/23 15:24	1
Turbidity	10.85				NTU			09/19/23 15:24	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Qualifiers

Metals

Qualifier	Qualifier Description
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
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-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Metals

Prep Batch: 733347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total Recoverable	Water	3005A	
500-239823-2	VER_070#SDUP	Total Recoverable	Water	3005A	
500-239823-3	VER_010	Total Recoverable	Water	3005A	
500-239823-4	VER_010DUP	Total Recoverable	Water	3005A	
500-239823-5	VER_070&D	Total Recoverable	Water	3005A	
500-239823-6	VER_022	Total Recoverable	Water	3005A	
MB 500-733347/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-733347/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-239823-6 MS	VER_022_MS	Total Recoverable	Water	3005A	
500-239823-6 MSD	VER_022_MSD	Total Recoverable	Water	3005A	
500-239823-6 DU	VER_022	Total Recoverable	Water	3005A	

Prep Batch: 733348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total Recoverable	Water	200.7	
500-239823-2	VER_070#SDUP	Total Recoverable	Water	200.7	
500-239823-3	VER_010	Total Recoverable	Water	200.7	
500-239823-4	VER_010DUP	Total Recoverable	Water	200.7	
500-239823-5	VER_070&D	Total Recoverable	Water	200.7	
500-239823-6	VER_022	Total Recoverable	Water	200.7	
MB 500-733348/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-733348/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-239823-6 MS	VER_022_MS	Total Recoverable	Water	200.7	
500-239823-6 MSD	VER_022_MSD	Total Recoverable	Water	200.7	
500-239823-6 DU	VER_022	Total Recoverable	Water	200.7	

Prep Batch: 733782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-17	VER_016A	Total Recoverable	Water	200.7	
MB 500-733782/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-733782/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 734010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-27	VER_035&D	Total Recoverable	Water	200.7	
500-239823-28	VER_035&D-DUP	Total Recoverable	Water	200.7	
MB 500-734010/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-734010/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 734077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total/NA	Water	7470A	
500-239823-2	VER_070#SDUP	Total/NA	Water	7470A	
500-239823-3	VER_010	Total/NA	Water	7470A	
500-239823-4	VER_010DUP	Total/NA	Water	7470A	
500-239823-5	VER_070&D	Total/NA	Water	7470A	
500-239823-6	VER_022	Total/NA	Water	7470A	
MB 500-734077/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-734077/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-239823-6 MS	VER_022_MS	Total/NA	Water	7470A	
500-239823-6 MSD	VER_022_MSD	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 734077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-6 DU	VER_022	Total/NA	Water	7470A	

Prep Batch: 734230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total Recoverable	Water	200.7	
MB 500-734230/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-734230/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-239823-29 MS	VER_FB/EB-1	Total Recoverable	Water	200.7	
500-239823-29 DU	VER_FB/EB-1	Total Recoverable	Water	200.7	

Prep Batch: 734233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-17	VER_016A	Total Recoverable	Water	3005A	
MB 500-734233/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-734233/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 734254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-17	VER_016A	Total/NA	Water	7470A	
MB 500-734254/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-734254/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 734292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total/NA	Water	7470A	734077
500-239823-2	VER_070#SDUP	Total/NA	Water	7470A	734077
500-239823-3	VER_010	Total/NA	Water	7470A	734077
500-239823-4	VER_010DUP	Total/NA	Water	7470A	734077
500-239823-5	VER_070&D	Total/NA	Water	7470A	734077
500-239823-6	VER_022	Total/NA	Water	7470A	734077
MB 500-734077/12-A	Method Blank	Total/NA	Water	7470A	734077
LCS 500-734077/13-A	Lab Control Sample	Total/NA	Water	7470A	734077
500-239823-6 MS	VER_022_MS	Total/NA	Water	7470A	734077
500-239823-6 MSD	VER_022_MSD	Total/NA	Water	7470A	734077
500-239823-6 DU	VER_022	Total/NA	Water	7470A	734077

Prep Batch: 734405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-27	VER_035&D	Total Recoverable	Water	3005A	
500-239823-28	VER_035&D-DUP	Total Recoverable	Water	3005A	
500-239823-29	VER_FB/EB-1	Total Recoverable	Water	3005A	
500-239823-35	VER_EB-1	Total Recoverable	Water	3005A	
MB 500-734405/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-734405/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 734408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-35	VER_EB-1	Total Recoverable	Water	200.7	
MB 500-734408/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-734408/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Metals

Analysis Batch: 734431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total Recoverable	Water	200.7 Rev 4.4	733348
500-239823-2	VER_070#SDUP	Total Recoverable	Water	200.7 Rev 4.4	733348
500-239823-3	VER_010	Total Recoverable	Water	200.7 Rev 4.4	733348
500-239823-4	VER_010DUP	Total Recoverable	Water	200.7 Rev 4.4	733348
500-239823-5	VER_070&D	Total Recoverable	Water	200.7 Rev 4.4	733348
500-239823-6	VER_022	Total Recoverable	Water	200.7 Rev 4.4	733348
MB 500-733348/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	733348
500-239823-6 MS	VER_022_MS	Total Recoverable	Water	200.7 Rev 4.4	733348
500-239823-6 MSD	VER_022_MSD	Total Recoverable	Water	200.7 Rev 4.4	733348
500-239823-6 DU	VER_022	Total Recoverable	Water	200.7 Rev 4.4	733348

Analysis Batch: 734443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-17	VER_016A	Total/NA	Water	7470A	734254
MB 500-734254/12-A	Method Blank	Total/NA	Water	7470A	734254
LCS 500-734254/13-A	Lab Control Sample	Total/NA	Water	7470A	734254

Prep Batch: 734449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-27	VER_035&D	Total/NA	Water	7470A	
500-239823-28	VER_035&D-DUP	Total/NA	Water	7470A	
500-239823-29	VER_FB/EB-1	Total/NA	Water	7470A	
500-239823-35	VER_EB-1	Total/NA	Water	7470A	
MB 500-734449/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-734449/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 734631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-17	VER_016A	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-27	VER_035&D	Total Recoverable	Water	200.7 Rev 4.4	734010
500-239823-28	VER_035&D-DUP	Total Recoverable	Water	200.7 Rev 4.4	734010
MB 500-733782/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	733782
MB 500-734010/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	734010
LCS 500-733782/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	733782
LCS 500-734010/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	734010

Analysis Batch: 734633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-733348/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	733348
LCS 500-733348/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	733348

Analysis Batch: 734668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-27	VER_035&D	Total/NA	Water	7470A	734449
500-239823-28	VER_035&D-DUP	Total/NA	Water	7470A	734449
500-239823-29	VER_FB/EB-1	Total/NA	Water	7470A	734449
500-239823-35	VER_EB-1	Total/NA	Water	7470A	734449
MB 500-734449/12-A	Method Blank	Total/NA	Water	7470A	734449
LCS 500-734449/13-A	Lab Control Sample	Total/NA	Water	7470A	734449

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Metals

Analysis Batch: 735077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-35	VER_EB-1	Total Recoverable	Water	200.7 Rev 4.4	734408
MB 500-734408/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	734408
LCS 500-734408/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	734408

Analysis Batch: 736355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total Recoverable	Water	6020B	733347
500-239823-2	VER_070#SDUP	Total Recoverable	Water	6020B	733347
500-239823-3	VER_010	Total Recoverable	Water	6020B	733347
500-239823-4	VER_010DUP	Total Recoverable	Water	6020B	733347
500-239823-5	VER_070&D	Total Recoverable	Water	6020B	733347
500-239823-6	VER_022	Total Recoverable	Water	6020B	733347
500-239823-17	VER_016A	Total Recoverable	Water	6020B	734233
MB 500-733347/1-A	Method Blank	Total Recoverable	Water	6020B	733347
MB 500-734233/1-A	Method Blank	Total Recoverable	Water	6020B	734233
LCS 500-733347/2-A	Lab Control Sample	Total Recoverable	Water	6020B	733347
LCS 500-734233/2-A	Lab Control Sample	Total Recoverable	Water	6020B	734233
500-239823-6 MS	VER_022_MS	Total Recoverable	Water	6020B	733347
500-239823-6 MSD	VER_022_MSD	Total Recoverable	Water	6020B	733347
500-239823-6 DU	VER_022	Total Recoverable	Water	6020B	733347

Analysis Batch: 736570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-17	VER_016A	Total Recoverable	Water	6020B	734233

Analysis Batch: 736629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total Recoverable	Water	6020B	733347
500-239823-2	VER_070#SDUP	Total Recoverable	Water	6020B	733347
500-239823-3	VER_010	Total Recoverable	Water	6020B	733347
500-239823-4	VER_010DUP	Total Recoverable	Water	6020B	733347
500-239823-5	VER_070&D	Total Recoverable	Water	6020B	733347
500-239823-6	VER_022	Total Recoverable	Water	6020B	733347
500-239823-27	VER_035&D	Total Recoverable	Water	6020B	734405
500-239823-28	VER_035&D-DUP	Total Recoverable	Water	6020B	734405
500-239823-29	VER_FB/EB-1	Total Recoverable	Water	6020B	734405
500-239823-35	VER_EB-1	Total Recoverable	Water	6020B	734405
MB 500-734405/1-A	Method Blank	Total Recoverable	Water	6020B	734405
LCS 500-734405/2-A	Lab Control Sample	Total Recoverable	Water	6020B	734405
500-239823-6 MS	VER_022_MS	Total Recoverable	Water	6020B	733347
500-239823-6 MSD	VER_022_MSD	Total Recoverable	Water	6020B	733347
500-239823-6 DU	VER_022	Total Recoverable	Water	6020B	733347

Analysis Batch: 736638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-17	VER_016A	Total Recoverable	Water	6020B	734233
MB 500-734233/1-A	Method Blank	Total Recoverable	Water	6020B	734233
LCS 500-734233/2-A	Lab Control Sample	Total Recoverable	Water	6020B	734233

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Metals

Analysis Batch: 736686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total Recoverable	Water	200.7 Rev 4.4	734230
MB 500-734230/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	734230
LCS 500-734230/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	734230
500-239823-29 MS	VER_FB/EB-1	Total Recoverable	Water	200.7 Rev 4.4	734230
500-239823-29 DU	VER_FB/EB-1	Total Recoverable	Water	200.7 Rev 4.4	734230

Analysis Batch: 737762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-35	VER_EB-1	Total Recoverable	Water	6020B	734405

General Chemistry

Analysis Batch: 733267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total/NA	Water	SM 2540C	
500-239823-2	VER_070#SDUP	Total/NA	Water	SM 2540C	
500-239823-3	VER_010	Total/NA	Water	SM 2540C	
500-239823-4	VER_010DUP	Total/NA	Water	SM 2540C	
500-239823-5	VER_070&D	Total/NA	Water	SM 2540C	
500-239823-6	VER_022	Total/NA	Water	SM 2540C	
MB 500-733267/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-733267/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-239823-6 MS	VER_022_MS	Total/NA	Water	SM 2540C	
500-239823-6 MSD	VER_022_MSD	Total/NA	Water	SM 2540C	
500-239823-5 DU	VER_070&D	Total/NA	Water	SM 2540C	

Analysis Batch: 733939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-17	VER_016A	Total/NA	Water	SM 2540C	
500-239823-27	VER_035&D	Total/NA	Water	SM 2540C	
500-239823-28	VER_035&D-DUP	Total/NA	Water	SM 2540C	
MB 500-733939/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-733939/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 734131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total/NA	Water	SM 2540C	
MB 500-734131/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-734131/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 734440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total/NA	Water	300.0	
500-239823-1	VER_070#S	Total/NA	Water	300.0	
500-239823-2	VER_070#SDUP	Total/NA	Water	300.0	
500-239823-2	VER_070#SDUP	Total/NA	Water	300.0	
500-239823-3	VER_010	Total/NA	Water	300.0	
500-239823-3	VER_010	Total/NA	Water	300.0	
500-239823-4	VER_010DUP	Total/NA	Water	300.0	
500-239823-4	VER_010DUP	Total/NA	Water	300.0	
500-239823-5	VER_070&D	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 734440 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-5	VER_070&D	Total/NA	Water	300.0	
500-239823-6	VER_022	Total/NA	Water	300.0	
MB 500-734440/44	Method Blank	Total/NA	Water	300.0	
MB 500-734440/5	Method Blank	Total/NA	Water	300.0	
LCS 500-734440/45	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-734440/6	Lab Control Sample	Total/NA	Water	300.0	
500-239823-6 MS	VER_022_MS	Total/NA	Water	300.0	
500-239823-6 MSD	VER_022_MSD	Total/NA	Water	300.0	

Analysis Batch: 734546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-35	VER_EB-1	Total/NA	Water	SM 2540C	
MB 500-734546/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-734546/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 734951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-17	VER_016A	Total/NA	Water	300.0	
500-239823-17	VER_016A	Total/NA	Water	300.0	
500-239823-27	VER_035&D	Total/NA	Water	300.0	
500-239823-27	VER_035&D	Total/NA	Water	300.0	
500-239823-28	VER_035&D-DUP	Total/NA	Water	300.0	
500-239823-28	VER_035&D-DUP	Total/NA	Water	300.0	
500-239823-29	VER_FB/EB-1	Total/NA	Water	300.0	
MB 500-734951/3	Method Blank	Total/NA	Water	300.0	
MB 500-734951/45	Method Blank	Total/NA	Water	300.0	
LCS 500-734951/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-734951/46	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 735574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-35	VER_EB-1	Total/NA	Water	300.0	
MB 500-735574/3	Method Blank	Total/NA	Water	300.0	
LCS 500-735574/4	Lab Control Sample	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 737033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total/NA	Water	Field Sampling	
500-239823-2	VER_070#SDUP	Total/NA	Water	Field Sampling	
500-239823-3	VER_010	Total/NA	Water	Field Sampling	
500-239823-4	VER_010DUP	Total/NA	Water	Field Sampling	
500-239823-5	VER_070&D	Total/NA	Water	Field Sampling	
500-239823-6	VER_022	Total/NA	Water	Field Sampling	
500-239823-17	VER_016A	Total/NA	Water	Field Sampling	
500-239823-27	VER_035&D	Total/NA	Water	Field Sampling	
500-239823-28	VER_035&D-DUP	Total/NA	Water	Field Sampling	
500-239823-34	VER_NED1	Total/NA	Water	Field Sampling	
500-239823-37	VER_071&D	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-733348/1-A
Matrix: Water
Analysis Batch: 734431

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 733348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/21/23 08:30	09/27/23 14:02	1

Lab Sample ID: MB 500-733348/1-A
Matrix: Water
Analysis Batch: 734633

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 733348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/21/23 08:30	09/28/23 16:08	1

Lab Sample ID: LCS 500-733348/2-A
Matrix: Water
Analysis Batch: 734633

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 733348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.274		mg/L		109	85 - 115

Lab Sample ID: 500-239823-6 MS
Matrix: Water
Analysis Batch: 734431

Client Sample ID: VER_022_MS
Prep Type: Total Recoverable
Prep Batch: 733348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.035		0.250	0.307		mg/L		109	70 - 130

Lab Sample ID: 500-239823-6 MSD
Matrix: Water
Analysis Batch: 734431

Client Sample ID: VER_022_MSD
Prep Type: Total Recoverable
Prep Batch: 733348

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.035		0.250	0.314		mg/L		112	70 - 130	2	20

Lab Sample ID: 500-239823-6 DU
Matrix: Water
Analysis Batch: 734431

Client Sample ID: VER_022
Prep Type: Total Recoverable
Prep Batch: 733348

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.035		0.0337		mg/L		2	20

Lab Sample ID: MB 500-733782/1-A
Matrix: Water
Analysis Batch: 734631

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 733782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 12:30	1

Lab Sample ID: LCS 500-733782/2-A
Matrix: Water
Analysis Batch: 734631

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 733782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.267		mg/L		107	85 - 115

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-734010/1-A
Matrix: Water
Analysis Batch: 734631

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/26/23 08:42	09/28/23 15:24	1

Lab Sample ID: LCS 500-734010/2-A
Matrix: Water
Analysis Batch: 734631

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.235		mg/L		94	85 - 115

Lab Sample ID: MB 500-734230/1-A
Matrix: Water
Analysis Batch: 736686

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734230

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/27/23 09:25	10/11/23 16:31	1

Lab Sample ID: LCS 500-734230/2-A
Matrix: Water
Analysis Batch: 736686

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.272		mg/L		109	85 - 115

Lab Sample ID: 500-239823-29 MS
Matrix: Water
Analysis Batch: 736686

Client Sample ID: VER_FB/EB-1
Prep Type: Total Recoverable
Prep Batch: 734230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	<0.0050		0.250	0.272		mg/L		109	70 - 130

Lab Sample ID: 500-239823-29 DU
Matrix: Water
Analysis Batch: 736686

Client Sample ID: VER_FB/EB-1
Prep Type: Total Recoverable
Prep Batch: 734230

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	<0.0050		<0.0050		mg/L		NC	20

Lab Sample ID: MB 500-734408/1-A
Matrix: Water
Analysis Batch: 735077

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/28/23 08:37	10/02/23 15:51	1

Lab Sample ID: LCS 500-734408/2-A
Matrix: Water
Analysis Batch: 735077

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.286		mg/L		114	85 - 115

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-733347/1-A
Matrix: Water
Analysis Batch: 736355

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 733347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/21/23 08:28	10/10/23 19:40	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		09/21/23 08:28	10/10/23 19:40	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/21/23 08:28	10/10/23 19:40	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/21/23 08:28	10/10/23 19:40	1
Boron	0.0278	J ^1-	0.050	0.013	mg/L		09/21/23 08:28	10/10/23 19:40	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/21/23 08:28	10/10/23 19:40	1
Calcium	<0.20		0.20	0.044	mg/L		09/21/23 08:28	10/10/23 19:40	1
Chromium	<0.0050	^1-	0.0050	0.0011	mg/L		09/21/23 08:28	10/10/23 19:40	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/21/23 08:28	10/10/23 19:40	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/21/23 08:28	10/10/23 19:40	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/21/23 08:28	10/10/23 19:40	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/21/23 08:28	10/10/23 19:40	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/21/23 08:28	10/10/23 19:40	1

Lab Sample ID: LCS 500-733347/2-A
Matrix: Water
Analysis Batch: 736355

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 733347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.484		mg/L		97	80 - 120
Arsenic	0.100	0.0913		mg/L		91	80 - 120
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0511		mg/L		102	80 - 120
Boron	1.00	0.966	^1-	mg/L		97	80 - 120
Cadmium	0.0500	0.0483		mg/L		97	80 - 120
Calcium	10.0	8.38		mg/L		84	80 - 120
Chromium	0.200	0.202	^1-	mg/L		101	80 - 120
Cobalt	0.500	0.498		mg/L		100	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Molybdenum	1.00	0.914		mg/L		91	80 - 120
Selenium	0.100	0.0915		mg/L		91	80 - 120
Thallium	0.100	0.109		mg/L		109	80 - 120

Lab Sample ID: 500-239823-6 MS
Matrix: Water
Analysis Batch: 736355

Client Sample ID: VER_022_MS
Prep Type: Total Recoverable
Prep Batch: 733347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.504		mg/L		101	75 - 125
Arsenic	0.00040	J	0.100	0.0946		mg/L		94	75 - 125
Barium	0.074		0.500	0.601		mg/L		105	75 - 125
Beryllium	<0.0010		0.0500	0.0452		mg/L		90	75 - 125
Cadmium	<0.00050		0.0500	0.0484		mg/L		97	75 - 125
Calcium	39	F1	10.0	44.2	F1	mg/L		56	75 - 125
Cobalt	<0.0010		0.500	0.457		mg/L		91	75 - 125
Lead	<0.00050		0.100	0.103		mg/L		103	75 - 125
Molybdenum	<0.0050		1.00	0.944		mg/L		94	75 - 125
Selenium	<0.0025		0.100	0.0929		mg/L		93	75 - 125
Thallium	<0.0020		0.100	0.115		mg/L		115	75 - 125

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 500-239823-6 MS
Matrix: Water
Analysis Batch: 736629

Client Sample ID: VER_022_MS
Prep Type: Total Recoverable
Prep Batch: 733347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.39	B	1.00	1.27		mg/L		88	75 - 125
Chromium	<0.0050		0.200	0.196		mg/L		98	75 - 125

Lab Sample ID: 500-239823-6 MSD
Matrix: Water
Analysis Batch: 736355

Client Sample ID: VER_022_MSD
Prep Type: Total Recoverable
Prep Batch: 733347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.513		mg/L		103	75 - 125	2	20
Arsenic	0.00040	J	0.100	0.0962		mg/L		96	75 - 125	2	20
Barium	0.074		0.500	0.592		mg/L		104	75 - 125	1	20
Beryllium	<0.0010		0.0500	0.0459		mg/L		92	75 - 125	2	20
Cadmium	<0.00050		0.0500	0.0493		mg/L		99	75 - 125	2	20
Calcium	39	F1	10.0	44.2	F1	mg/L		56	75 - 125	0	20
Cobalt	<0.0010		0.500	0.461		mg/L		92	75 - 125	1	20
Lead	<0.00050		0.100	0.102		mg/L		102	75 - 125	1	20
Molybdenum	<0.0050		1.00	0.965		mg/L		97	75 - 125	2	20
Selenium	<0.0025		0.100	0.0961		mg/L		96	75 - 125	3	20
Thallium	<0.0020		0.100	0.113		mg/L		113	75 - 125	2	20

Lab Sample ID: 500-239823-6 MSD
Matrix: Water
Analysis Batch: 736629

Client Sample ID: VER_022_MSD
Prep Type: Total Recoverable
Prep Batch: 733347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.39	B	1.00	1.34		mg/L		95	75 - 125	5	20
Chromium	<0.0050		0.200	0.199		mg/L		99	75 - 125	2	20

Lab Sample ID: 500-239823-6 DU
Matrix: Water
Analysis Batch: 736355

Client Sample ID: VER_022
Prep Type: Total Recoverable
Prep Batch: 733347

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.00040	J	0.000454	J	mg/L		12	20
Barium	0.074		0.0733		mg/L		0.8	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	39	F1	38.5		mg/L		0.3	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	<0.0050		<0.0050		mg/L		NC	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

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

Lab Sample ID: 500-239823-6 DU
Matrix: Water
Analysis Batch: 736629

Client Sample ID: VER_022
Prep Type: Total Recoverable
Prep Batch: 733347

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	0.39	B	0.386		mg/L		1	20
Chromium	<0.0050		<0.0050		mg/L		NC	20

Lab Sample ID: MB 500-734233/1-A
Matrix: Water
Analysis Batch: 736355

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/27/23 09:34	10/10/23 21:41	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 21:41	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 21:41	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 21:41	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 21:41	1
Calcium	<0.20		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 21:41	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 21:41	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 21:41	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 21:41	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 21:41	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 21:41	1

Lab Sample ID: MB 500-734233/1-A
Matrix: Water
Analysis Batch: 736638

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 19:55	1

Lab Sample ID: LCS 500-734233/2-A
Matrix: Water
Analysis Batch: 736355

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.508		mg/L		102	80 - 120
Arsenic	0.100	0.0935		mg/L		94	80 - 120
Barium	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0473		mg/L		95	80 - 120
Cadmium	0.0500	0.0515		mg/L		103	80 - 120
Calcium	10.0	8.43		mg/L		84	80 - 120
Cobalt	0.500	0.512		mg/L		102	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Molybdenum	1.00	0.953		mg/L		95	80 - 120
Selenium	0.100	0.0939		mg/L		94	80 - 120
Thallium	0.100	0.118		mg/L		118	80 - 120

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

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

Lab Sample ID: LCS 500-734233/2-A
Matrix: Water
Analysis Batch: 736638

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.197		mg/L		98	80 - 120

Lab Sample ID: MB 500-734405/1-A
Matrix: Water
Analysis Batch: 736629

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/28/23 08:31	10/11/23 23:52	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		09/28/23 08:31	10/11/23 23:52	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/28/23 08:31	10/11/23 23:52	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/28/23 08:31	10/11/23 23:52	1
Boron	0.0386	J	0.050	0.013	mg/L		09/28/23 08:31	10/11/23 23:52	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/28/23 08:31	10/11/23 23:52	1
Calcium	<0.20		0.20	0.044	mg/L		09/28/23 08:31	10/11/23 23:52	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/28/23 08:31	10/11/23 23:52	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/28/23 08:31	10/11/23 23:52	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/28/23 08:31	10/11/23 23:52	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/28/23 08:31	10/11/23 23:52	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/28/23 08:31	10/11/23 23:52	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/28/23 08:31	10/11/23 23:52	1

Lab Sample ID: LCS 500-734405/2-A
Matrix: Water
Analysis Batch: 736629

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.515		mg/L		103	80 - 120
Arsenic	0.100	0.0983		mg/L		98	80 - 120
Barium	0.500	0.542		mg/L		108	80 - 120
Beryllium	0.0500	0.0561		mg/L		112	80 - 120
Boron	1.00	1.07		mg/L		107	80 - 120
Cadmium	0.0500	0.0531		mg/L		106	80 - 120
Calcium	10.0	8.93		mg/L		89	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120
Cobalt	0.500	0.526		mg/L		105	80 - 120
Lead	0.100	0.111		mg/L		111	80 - 120
Molybdenum	1.00	0.976		mg/L		98	80 - 120
Selenium	0.100	0.0998		mg/L		100	80 - 120
Thallium	0.100	0.113		mg/L		113	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-734077/12-A
Matrix: Water
Analysis Batch: 734292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/26/23 14:55	09/27/23 12:30	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-734077/13-A
Matrix: Water
Analysis Batch: 734292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734077

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00201	0.00212		mg/L		106	80 - 120		

Lab Sample ID: 500-239823-6 MS
Matrix: Water
Analysis Batch: 734292

Client Sample ID: VER_022_MS
Prep Type: Total/NA
Prep Batch: 734077

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.00040	F1	0.00100	0.00202	F1	mg/L		202	75 - 125		

Lab Sample ID: 500-239823-6 MSD
Matrix: Water
Analysis Batch: 734292

Client Sample ID: VER_022_MSD
Prep Type: Total/NA
Prep Batch: 734077

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00040	F1	0.00100	0.00205	F1	mg/L		205	75 - 125	1	20

Lab Sample ID: 500-239823-6 DU
Matrix: Water
Analysis Batch: 734292

Client Sample ID: VER_022
Prep Type: Total/NA
Prep Batch: 734077

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00040	F1	<0.00040		mg/L		NC	20

Lab Sample ID: MB 500-734254/12-A
Matrix: Water
Analysis Batch: 734443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/27/23 10:55	09/28/23 07:53	1

Lab Sample ID: LCS 500-734254/13-A
Matrix: Water
Analysis Batch: 734443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734254

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00201	0.00202		mg/L		101	80 - 120		

Lab Sample ID: MB 500-734449/12-A
Matrix: Water
Analysis Batch: 734668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/28/23 10:25	09/29/23 08:17	1

Lab Sample ID: LCS 500-734449/13-A
Matrix: Water
Analysis Batch: 734668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734449

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00201	0.00189		mg/L		94	80 - 120		

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-734440/44
Matrix: Water
Analysis Batch: 734440

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			09/28/23 22:24	1
Fluoride	<1.0		1.0	0.19	mg/L			09/28/23 22:24	1
Sulfate	<1.0		1.0	0.21	mg/L			09/28/23 22:24	1

Lab Sample ID: MB 500-734440/5
Matrix: Water
Analysis Batch: 734440

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			09/28/23 12:33	1
Fluoride	<1.0		1.0	0.19	mg/L			09/28/23 12:33	1
Sulfate	<1.0		1.0	0.21	mg/L			09/28/23 12:33	1

Lab Sample ID: LCS 500-734440/45
Matrix: Water
Analysis Batch: 734440

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	19.0		mg/L		95	90 - 110
Fluoride	20.0	18.2		mg/L		91	90 - 110
Sulfate	20.0	20.7		mg/L		104	90 - 110

Lab Sample ID: LCS 500-734440/6
Matrix: Water
Analysis Batch: 734440

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
Fluoride	20.0	18.1		mg/L		91	90 - 110
Sulfate	20.0	20.6		mg/L		103	90 - 110

Lab Sample ID: 500-239823-6 MS
Matrix: Water
Analysis Batch: 734440

Client Sample ID: VER_022_MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	16		10.0	24.1		mg/L		84	80 - 120
Fluoride	0.45	J	10.0	8.97		mg/L		85	80 - 120
Sulfate	33		10.0	41.9		mg/L		92	80 - 120

Lab Sample ID: 500-239823-6 MSD
Matrix: Water
Analysis Batch: 734440

Client Sample ID: VER_022_MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16		10.0	25.1		mg/L		93	80 - 120	4	20
Fluoride	0.45	J	10.0	8.98		mg/L		85	80 - 120	0	20
Sulfate	33		10.0	41.9		mg/L		92	80 - 120	0	20

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-734951/3
Matrix: Water
Analysis Batch: 734951

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			10/02/23 12:44	1
Fluoride	<1.0		1.0	0.19	mg/L			10/02/23 12:44	1
Sulfate	<1.0		1.0	0.21	mg/L			10/02/23 12:44	1

Lab Sample ID: MB 500-734951/45
Matrix: Water
Analysis Batch: 734951

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			10/02/23 23:40	1
Fluoride	<1.0		1.0	0.19	mg/L			10/02/23 23:40	1
Sulfate	<1.0		1.0	0.21	mg/L			10/02/23 23:40	1

Lab Sample ID: LCS 500-734951/4
Matrix: Water
Analysis Batch: 734951

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
Fluoride	20.0	18.6		mg/L		93	90 - 110
Sulfate	20.0	20.9		mg/L		105	90 - 110

Lab Sample ID: LCS 500-734951/46
Matrix: Water
Analysis Batch: 734951

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	19.0		mg/L		95	90 - 110
Fluoride	20.0	18.8		mg/L		94	90 - 110
Sulfate	20.0	21.1		mg/L		105	90 - 110

Lab Sample ID: MB 500-735574/3
Matrix: Water
Analysis Batch: 735574

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			10/05/23 14:09	1
Fluoride	<1.0		1.0	0.19	mg/L			10/05/23 14:09	1
Sulfate	<1.0		1.0	0.21	mg/L			10/05/23 14:09	1

Lab Sample ID: LCS 500-735574/4
Matrix: Water
Analysis Batch: 735574

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	19.3		mg/L		96	90 - 110
Fluoride	20.0	19.3		mg/L		97	90 - 110
Sulfate	20.0	20.1		mg/L		101	90 - 110

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

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

Lab Sample ID: MB 500-733267/1
Matrix: Water
Analysis Batch: 733267

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			09/20/23 20:43	1

Lab Sample ID: LCS 500-733267/2
Matrix: Water
Analysis Batch: 733267

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	242		mg/L		97	80 - 120

Lab Sample ID: 500-239823-6 MS
Matrix: Water
Analysis Batch: 733267

Client Sample ID: VER_022_MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	470		250	682		mg/L		86	75 - 125

Lab Sample ID: 500-239823-6 MSD
Matrix: Water
Analysis Batch: 733267

Client Sample ID: VER_022_MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	470		250	694		mg/L		90	75 - 125	2	20

Lab Sample ID: 500-239823-5 DU
Matrix: Water
Analysis Batch: 733267

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1700		1660		mg/L		0.6	5

Lab Sample ID: MB 500-733939/1
Matrix: Water
Analysis Batch: 733939

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			09/25/23 21:08	1

Lab Sample ID: LCS 500-733939/2
Matrix: Water
Analysis Batch: 733939

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	264		mg/L		106	80 - 120

Lab Sample ID: MB 500-734131/1
Matrix: Water
Analysis Batch: 734131

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			09/26/23 22:26	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

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

Lab Sample ID: LCS 500-734131/2
Matrix: Water
Analysis Batch: 734131

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

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

Lab Sample ID: MB 500-734546/1
Matrix: Water
Analysis Batch: 734546

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			09/29/23 02:31	1

Lab Sample ID: LCS 500-734546/2
Matrix: Water
Analysis Batch: 734546

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	238		mg/L		95	80 - 120

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_070#S
Date Collected: 09/19/23 13:45
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733348	BDE	EET CHI	09/21/23 08:30 - 09/21/23 09:00 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	734431	RN	EET CHI	09/27/23 14:45
Total Recoverable	Prep	3005A			733347	BDE	EET CHI	09/21/23 08:28 - 09/21/23 08:58 [1]
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 19:49
Total Recoverable	Prep	3005A			733347	BDE	EET CHI	09/21/23 08:28 - 09/21/23 08:58 [1]
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/11/23 22:13
Total/NA	Prep	7470A			734077	MJG	EET CHI	09/26/23 14:55 - 09/26/23 16:55 [1]
Total/NA	Analysis	7470A		1	734292	MJG	EET CHI	09/27/23 12:40
Total/NA	Analysis	300.0		1	734440	NMB	EET CHI	09/28/23 19:53
Total/NA	Analysis	300.0		50	734440	NMB	EET CHI	09/28/23 20:08
Total/NA	Analysis	SM 2540C		1	733267	CLB	EET CHI	09/20/23 21:12
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/19/23 13:45

Client Sample ID: VER_070#SDUP
Date Collected: 09/19/23 13:50
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733348	BDE	EET CHI	09/21/23 08:30 - 09/21/23 09:00 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	734431	RN	EET CHI	09/27/23 14:49
Total Recoverable	Prep	3005A			733347	BDE	EET CHI	09/21/23 08:28 - 09/21/23 08:58 [1]
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 19:53
Total Recoverable	Prep	3005A			733347	BDE	EET CHI	09/21/23 08:28 - 09/21/23 08:58 [1]
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/11/23 22:17
Total/NA	Prep	7470A			734077	MJG	EET CHI	09/26/23 14:55 - 09/26/23 16:55 [1]
Total/NA	Analysis	7470A		1	734292	MJG	EET CHI	09/27/23 12:42
Total/NA	Analysis	300.0		1	734440	NMB	EET CHI	09/28/23 20:23
Total/NA	Analysis	300.0		50	734440	NMB	EET CHI	09/28/23 21:08
Total/NA	Analysis	SM 2540C		1	733267	CLB	EET CHI	09/20/23 21:15
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/19/23 13:50

Client Sample ID: VER_010
Date Collected: 09/19/23 10:15
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733348	BDE	EET CHI	09/21/23 08:30 - 09/21/23 09:00 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	734431	RN	EET CHI	09/27/23 14:54
Total Recoverable	Prep	3005A			733347	BDE	EET CHI	09/21/23 08:28 - 09/21/23 08:58 [1]
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 19:57
Total Recoverable	Prep	3005A			733347	BDE	EET CHI	09/21/23 08:28 - 09/21/23 08:58 [1]
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/11/23 22:21
Total/NA	Prep	7470A			734077	MJG	EET CHI	09/26/23 14:55 - 09/26/23 16:55 [1]
Total/NA	Analysis	7470A		1	734292	MJG	EET CHI	09/27/23 12:45

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_010
Date Collected: 09/19/23 10:15
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	734440	NMB	EET CHI	09/28/23 21:24
Total/NA	Analysis	300.0		20	734440	NMB	EET CHI	09/28/23 21:39
Total/NA	Analysis	SM 2540C		1	733267	CLB	EET CHI	09/20/23 21:18
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/19/23 10:15

Client Sample ID: VER_010DUP
Date Collected: 09/19/23 10:20
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733348	BDE	EET CHI	09/21/23 08:30 - 09/21/23 09:00 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	734431	RN	EET CHI	09/27/23 14:59
Total Recoverable	Prep	3005A			733347	BDE	EET CHI	09/21/23 08:28 - 09/21/23 08:58 [1]
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 20:02
Total Recoverable	Prep	3005A			733347	BDE	EET CHI	09/21/23 08:28 - 09/21/23 08:58 [1]
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/11/23 22:25
Total/NA	Prep	7470A			734077	MJG	EET CHI	09/26/23 14:55 - 09/26/23 16:55 [1]
Total/NA	Analysis	7470A		1	734292	MJG	EET CHI	09/27/23 12:47
Total/NA	Analysis	300.0		1	734440	NMB	EET CHI	09/28/23 22:55
Total/NA	Analysis	300.0		20	734440	NMB	EET CHI	09/28/23 23:10
Total/NA	Analysis	SM 2540C		1	733267	CLB	EET CHI	09/20/23 21:21
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/19/23 10:20

Client Sample ID: VER_070&D
Date Collected: 09/19/23 15:35
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733348	BDE	EET CHI	09/21/23 08:30 - 09/21/23 09:00 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	734431	RN	EET CHI	09/27/23 15:04
Total Recoverable	Prep	3005A			733347	BDE	EET CHI	09/21/23 08:28 - 09/21/23 08:58 [1]
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 20:15
Total Recoverable	Prep	3005A			733347	BDE	EET CHI	09/21/23 08:28 - 09/21/23 08:58 [1]
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/11/23 22:29
Total/NA	Prep	7470A			734077	MJG	EET CHI	09/26/23 14:55 - 09/26/23 16:55 [1]
Total/NA	Analysis	7470A		1	734292	MJG	EET CHI	09/27/23 12:53
Total/NA	Analysis	300.0		1	734440	NMB	EET CHI	09/28/23 23:25
Total/NA	Analysis	300.0		50	734440	NMB	EET CHI	09/29/23 00:26
Total/NA	Analysis	SM 2540C		1	733267	CLB	EET CHI	09/20/23 21:24
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/19/23 15:35

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_022
Date Collected: 09/19/23 10:20
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733348	BDE	EET CHI	09/21/23 08:30 - 09/21/23 09:00 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	734431	RN	EET CHI	09/27/23 15:09
Total Recoverable	Prep	3005A			733347	BDE	EET CHI	09/21/23 08:28 - 09/21/23 08:58 [1]
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 20:19
Total Recoverable	Prep	3005A			733347	BDE	EET CHI	09/21/23 08:28 - 09/21/23 08:58 [1]
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/11/23 22:33
Total/NA	Prep	7470A			734077	MJG	EET CHI	09/26/23 14:55 - 09/26/23 16:55 [1]
Total/NA	Analysis	7470A		1	734292	MJG	EET CHI	09/27/23 12:55
Total/NA	Analysis	300.0		1	734440	NMB	EET CHI	09/29/23 00:41
Total/NA	Analysis	SM 2540C		1	733267	CLB	EET CHI	09/20/23 21:30
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/19/23 10:20

Client Sample ID: VER_016A
Date Collected: 09/21/23 16:10
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 13:53
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 [1]
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 23:04
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 [1]
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 16:55
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 [1]
Total Recoverable	Analysis	6020B		1	736638	BJH	EET CHI	10/11/23 20:58
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 [1]
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:29
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/02/23 21:04
Total/NA	Analysis	300.0		5	734951	W1T	EET CHI	10/02/23 21:20
Total/NA	Analysis	SM 2540C		1	733939	CLB	EET CHI	09/25/23 21:15
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/21/23 16:10

Client Sample ID: VER_035&D
Date Collected: 09/22/23 09:35
Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			734010	BDE	EET CHI	09/26/23 08:42 - 09/26/23 09:12 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 16:05
Total Recoverable	Prep	3005A			734405	BDE	EET CHI	09/28/23 08:31 - 09/28/23 09:01 [1]
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/12/23 00:47
Total/NA	Prep	7470A			734449	MJG	EET CHI	09/28/23 10:25 - 09/28/23 12:25 [1]
Total/NA	Analysis	7470A		1	734668	MJG	EET CHI	09/29/23 08:21
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/03/23 02:32

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_035&D
Date Collected: 09/22/23 09:35
Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		100	734951	W1T	EET CHI	10/03/23 02:48
Total/NA	Analysis	SM 2540C		1	733939	CLB	EET CHI	09/25/23 21:41
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/22/23 09:35

Client Sample ID: VER_035&D-DUP
Date Collected: 09/22/23 09:40
Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			734010	BDE	EET CHI	09/26/23 08:42 - 09/26/23 09:12 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 16:14
Total Recoverable	Prep	3005A			734405	BDE	EET CHI	09/28/23 08:31 - 09/28/23 09:01 [1]
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/12/23 00:55
Total/NA	Prep	7470A			734449	MJG	EET CHI	09/28/23 10:25 - 09/28/23 12:25 [1]
Total/NA	Analysis	7470A		1	734668	MJG	EET CHI	09/29/23 08:23
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/03/23 03:04
Total/NA	Analysis	300.0		100	734951	W1T	EET CHI	10/03/23 03:19
Total/NA	Analysis	SM 2540C		1	733939	CLB	EET CHI	09/25/23 21:44
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/22/23 09:40

Client Sample ID: VER_FB/EB-1
Date Collected: 09/25/23 18:00
Date Received: 09/26/23 11:13

Lab Sample ID: 500-239823-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			734230	BDE	EET CHI	09/27/23 09:25 - 09/27/23 09:55 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	736686	RN	EET CHI	10/11/23 16:48
Total Recoverable	Prep	3005A			734405	BDE	EET CHI	09/28/23 08:31 - 09/28/23 09:01 [1]
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/12/23 01:03
Total/NA	Prep	7470A			734449	MJG	EET CHI	09/28/23 10:25 - 09/28/23 12:25 [1]
Total/NA	Analysis	7470A		1	734668	MJG	EET CHI	09/29/23 08:25
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/03/23 03:35
Total/NA	Analysis	SM 2540C		1	734131	CLB	EET CHI	09/26/23 22:36

Client Sample ID: VER_NED1
Date Collected: 09/26/23 13:36
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/26/23 13:36

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Client Sample ID: VER_EB-1
Date Collected: 09/26/23 17:00
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			734408	BDE	EET CHI	09/28/23 08:37 - 09/28/23 09:07 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	735077	RN	EET CHI	10/02/23 16:45
Total Recoverable	Prep	3005A			734405	BDE	EET CHI	09/28/23 08:31 - 09/28/23 09:01 [1]
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/12/23 01:43
Total Recoverable	Prep	3005A			734405	BDE	EET CHI	09/28/23 08:31 - 09/28/23 09:01 [1]
Total Recoverable	Analysis	6020B		1	737762	BJH	EET CHI	10/18/23 17:57
Total/NA	Prep	7470A			734449	MJG	EET CHI	09/28/23 10:25 - 09/28/23 12:25 [1]
Total/NA	Analysis	7470A		1	734668	MJG	EET CHI	09/29/23 09:08
Total/NA	Analysis	300.0		1	735574	NMB	EET CHI	10/05/23 18:57
Total/NA	Analysis	SM 2540C		1	734546	CLB	EET CHI	09/29/23 03:09

Client Sample ID: VER_071&D
Date Collected: 09/19/23 15:24
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/19/23 15:24

[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-23Q3

Job ID: 500-239823-1
SDG: VER_845_912

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	Lithium
Field Sampling		Water	Depth to Water (ft from MP)
Field Sampling		Water	Field pH
Field Sampling		Water	Field Temperature
Field Sampling		Water	Oxidation Reduction Potential
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Turbidity

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-239823

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_070#SDUP			9/19/2023	1350		15	2	9	4								X		X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0							
		9/20/23	1118		9/20/23	1118	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Alanna Tabares
SIGNATURE of SAMPLER: Alanna Tabares DATE Signed (MM/DD/YY): 09/19/23

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

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_010	WT	G	9/19/23	10:35		14											X	X	X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	M. J. Ellian	9/20/23	1116	M. J. Ellian	9/20/23	0916	
					9/20/23	1118	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
0.7	0.1	4	8

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_010DUP			9/19/23	10:20		14	X	X	X								X	X	X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
HEN-23Q3 Rev 0				M. J. Ellis	9/20/23	0916
	M. J. Ellis	9/20/23	1118	[signature]	9/20/23	1118

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt Barley

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/19/2023

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

0.7 70.4
48 QT

500-234823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911 Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_016A	WT	G	9/21/23	1616													X	X	X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
HEN-23Q3 Rev 0	[signature]	9/22/23		[signature]	9/22/23	0814
	[signature]	9/22/23	1109	[signature]	9/22/23	1184

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt Barley

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/21/23

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

Temp= 2.2→1.8

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_022_MS/MSD	WT	G	9/19/2023	1020													X		X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	Matt Burley (Rumbol)	9/20/23			9/20/23	09:16	
		9/20/23	1118		9/20/23	1118	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt Burley

SIGNATURE of SAMPLER: Matt Burley

DATE Signed (MM/DD/YY): 9/12/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.9→2.5			

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000										Residual Chlorine (Y/N)	Project No./ Lab I.D.
27	1	VER_035&D			9/22/23	0935		14	2	8	4									X	X											SHORT HOLDS-NO2
	2																															
	3																															
	4																															
	5																															
	6																															
	7																															
	8																															
	9																															
	10																															
	11																															
	12																															
	13																															
	14																															
	15																															
	16																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	[signature] / Ramboll	9/22/23	14:10	[signature] EETA	9/22/23	1410	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Doloure

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 09/22/23

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

3.7-3.3 48QT

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	Profile #:	

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

Section D Required Client Information

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

Requested Analysis Filtered (Y/N)

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	~~VER_035&DEB~~ VEL_035&DUP			09/22/23	0910		14	2	8	4									X	X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

28

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	[signature] / Ramboll	9/22/23	14:10	[signature] EETA	9/22/23	1410	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [handwritten name]

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 09/22/23

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

3.7 - 3.3 48 OH

500-239823 COC

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-239823

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_070#S			9/19/23	1345		14	2	8	4								X		X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

1

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0							
		9/20/23	1118		9/20/23	1118	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Tabares

SIGNATURE of SAMPLER: Alanna Tabares DATE Signed (MM/DD/YY): 09/19/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3.0 72.6			

48 Q+

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-239823

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Liste,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_070&D			9/19/23	1535		14		4									X		X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

5

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0							
		9/20/23	1118		9/20/23	0916	
					9/20/23	1118	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Tabares

SIGNATURE of SAMPLER: Alanna Tabares

DATE Signed (MM/DD/YY): 09/19/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3.1→2.7			

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	Ramboll
Address:	
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911
Fax:	
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000										Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	LCA ~~VER_035&DEB~~ EB-1	DI	G	9/26/23	1700		14	2	8	4							X	X	X	X											SHORT HOLDS-NO2
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
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12																															
13																															
14																															
15																															
16																															

35

LCA 9/26/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	[signature] / Ramboll	9/26/23	0900	[signature]	9/26/23	0900	
	[signature]	9/27/23	0915	[signature]	9/27/23	0915	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Warren Anderson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 9/26/23

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

[signature] 9/27/23 1131 [signature] 9/27/23 1131

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911 Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

500-239823 COC

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_FB / EB-1	DI	G	9/25/23	1800		14	2	8	4							X	X	X	X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

29

WA 9/26/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	[signature]	9/26/23	0815	[signature]	9/26/23	0900	
	[signature]	9/26/23	1117	[signature]	9/26/23	1113	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lauren Anderson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/26/23

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

Temp = 5.9 → 5.3

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_NED1	GW	G	9/26/23	1330		14	2	8	4							X		X		SHORT HOLDS-NO2
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11					LCA 9/26/23																
12																					
13																					
14																					
15																					
16																					

34

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	[signature] Ramboll	9/26/23	0900	[signature] Ramboll	~~9/26/23~~ 9/27/23	0900	
	[signature] Ramboll	9/27/23		[signature]	9/27/23	0915	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lawren Anderson
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/26/23

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

[signature] 9/27/23 1131 [signature] 9/27/23 1131

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:	Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	COC No: 500-179489.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Carlene.McCutcheon@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239823-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/19/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q3	Project #: 50022203			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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 W	904.0/PrecSep_0 W	Ra226_228GFPC_P/ W	903.0/PrecSep_21 X	904.0/PrecSep_0 X	Ra226_228GFPC_P/ X	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
VER_FB/EB-1 (500-239823-29)	9/25/23	18:00 Central		Water			X	X	X	X	X	X	2	
VER_101& (500-239823-30)	9/25/23	16:12 Central		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
Shirley Scott Fedex	9/26/23 1345		Fedex		
Relinquished by: Fedex	Date/Time:	Company	Received by: M Pinette	Date/Time: SEP 27 2023 0845	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:

Page 62 of 130

11/16/23

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912

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:	Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	COC No: 500-179489.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Carlene.McCutcheon@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239823-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/19/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q3	Project #: 50022203			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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 W	904.0/PrecSep_0 W	Ra226_228GFPC_P/ W	903.0/PrecSep_21 X	904.0/PrecSep_0 X	Ra226_228GFPC_P/ X	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
VER_FB/EB-1 (500-239823-29)	9/25/23	18:00 Central		Water			X	X	X	X	X	X	2	
VER_101& (500-239823-30)	9/25/23	16:12 Central		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
Shirley Scott Fedex	9/26/23 1345		Fedex		
Relinquished by: Fedex	Date/Time:	Company	Received by: M Pinette	Date/Time: SEP 27 2023 0845	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:

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:	Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	COC No: 500-179524.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Carlene.McCutcheon@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239823-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/19/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q3	Project #: 50022203			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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 W	904.0/PrecSep_0 W	Ra226_228GFPC_P/ W	903.0/PrecSep_21 X	904.0/PrecSep_0 X	Ra226_228GFPC_P/ X	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
VER_103& (500-239823-33)	9/26/23	10:43 Central		Water			X	X	X				2	
VER_NED1 (500-239823-34)	9/26/23	13:36 Central		Water						X	X	X	2	
VER_EB-1 (500-239823-35)	9/26/23	17:00 Central		Water			X	X	X	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
[signature] Fedex	9/27/23 1515		Fedex		
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: SEP 28 2023 0840	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: 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:	Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	COC No: 500-179524.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Carlene.McCutcheon@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239823-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/19/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q3	Project #: 50022203			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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 W	904.0/PrecSep_0 W	Ra226_228GFPC_P/ W	903.0/PrecSep_21 X	904.0/PrecSep_0 X	Ra226_228GFPC_P/ X	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X							X	
VER_103& (500-239823-33)	9/26/23	10:43 Central		Water			X	X	X				2	
VER_NED1 (500-239823-34)	9/26/23	13:36 Central		Water						X	X	X	2	
VER_EB-1 (500-239823-35)	9/26/23	17:00 Central		Water			X	X	X	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
[signature] Fedex	9/27/23 1515		Fedex		
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: SEP 28 2023 0840	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-239823-1
SDG Number: VER_845_912

Login Number: 239823
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,0.4,2.7,2.5,2.4,2.2,0.8,1.6,2.4,1.5,1.8,1.6,4.6,3.3,5.3,5.1,1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	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	

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 18, 2023 Time: 14:18
Field Personnel: Kikkert/Bartley/Tabares
Finish Date: September 18, 2023 Time:

WELL INFORMATION

Well ID: ND3
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ☐ Pump
Bailer Type: n/a
Pump Type and Serial #:
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	Dry	14:18		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600

WATER QUALITY INDICATOR PARAMETERS

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

NOTES

Initial/Potentiometric WL: Dry Date: 9/18/23 Time: 14:18
Well dry. No sample collected.

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 18, 2023
Time: 14:18
Field Personnel: Kikkert/Bartley/Tabares
Finish Date: September 18, 2023
Time:

WELL INFORMATION

Well ID: ND3
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 26, 2023 Time: 13:21
Field Personnel: Anderson/Tabares
Finish Date: September 26, 2023 Time: 13:36

WELL INFORMATION

Well ID: NED-1
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Peristaltic Pump
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	5.21	13:21		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	13:21	NA	5.21	NA	23.79	1614	2.56	7.49	305.79	-109.5	clear
purge	13:27	NA	5.21	NA	19.86	1705.5	0.33	7.45	125.55	-151.3	clear
purge	13:30	NA	5.21	NA	19.86	1751.8	0.31	7.55	95.98	-163.1	clear
purge	13:33	NA	5.24	NA	19.86	1759.7	0.27	7.58	87.18	-174.3	clear
sample	13:36	NA	5.3	NA	20.28	1772.1	0.24	7.58	77.98	-181.2	clear
Stabilized at 13:36. Sampled at 13:36											

NOTES

Initial/Potentiometric WL: 5.21 Date: 9/26/23 Time: 13:21

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 26, 2023 Time: 13:21
Field Personnel: Anderson/Tabares
Finish Date: September 26, 2023 Time: 13:36

WELL INFORMATION

Well ID: NED-1
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 18, 2023
Time: 14:25
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 18, 2023
Time:

WELL INFORMATION

Well ID: OED1
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ☐ Pump
Bailer Type: n/a
Pump Type and Serial #:
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	Dry	14:25		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons
3 Well Volumes: Gallons
5 Well Volumes: Gallons
10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial #: AquaTroll 600

WATER QUALITY INDICATOR PARAMETERS

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

NOTES

Initial/Potentiometric WL: Dry Date: 9/18/23 Time: 14:25
Well dry. No sample collected.

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 18, 2023
Time: 14:25
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 18, 2023
Time:

WELL INFORMATION

Well ID: OED1
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 20, 2023 Time: 13:53
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 20, 2023 Time: 14:11

WELL INFORMATION

Well ID: VER-002
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 / FA04650
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 300 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	19.50	13:53		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	13:53	NA	19.5	NA	15.97	797.24	0.23	7.46	9.23	-77.3	Clear
purge	13:56	NA	19.5	NA	15.92	819.45	0.21	7.49	2.3	-106.1	Clear
purge	13:59	NA	19.5	NA	15.67	810.39	0.15	7.55	9.26	-121.2	Clear
purge	14:02	NA	19.5	NA	15.58	813.02	0.13	7.56	7.99	-130.9	Clear
purge	14:05	NA	19.5	NA	15.51	794.09	0.12	7.57	5.7	-137.7	Clear
purge	14:08	NA	19.5	NA	15.41	792.24	0.11	7.58	5.98	-143.1	Clear
purge	14:11	NA	19.5	NA	15.25	780.39	0.09	7.58	7.24	-147.5	Clear

Stabilized at 14:11. Sampled at 14:11

NOTES

Initial/Potentiometric WL: 19.50 Date: 9/20/2023 Time: 13:53

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 20, 2023
Time: 13:53
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 20, 2023
Time: 14:11

WELL INFORMATION

Well ID: VER-002
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

NOTES (continued)

Duplicate sample collected @ 14:20.
Ferrous Iron reading = underrange

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 21, 2023 | Time: 8:40
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 21, 2023 | Time: 8:50

WELL INFORMATION

Well ID: VER-003R
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA05081
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	9.04	8:40		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #867305

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	8:40	NA	9.04	NA	13.13	1,587.80	0.16	7.44	19	-114.1	Clear
purge	8:43	NA	9.45	NA	13.13	1,601.90	0.18	7.43	16.8	-111.7	Clear
purge	8:46	NA	9.51	NA	13.11	1,613.20	0.15	7.43	22.5	-110.2	Clear
Stabilized at 8:46. Sampled at 8:50											

NOTES

Initial/Potentiometric WL: 9.04 Date: 9/21/2023 Time: 8:40

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 21, 2023 Time: 8:40
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 21, 2023 Time: 8:50

WELL INFORMATION

Well ID: VER-003R
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

NOTES (continued)

Ferrous Iron reading = 3.153 ppm

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 20, 2023 Time: 13:50
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 20, 2023 Time: 14:50

WELL INFORMATION

Well ID: VER-004
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA05081
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 300 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	8.94	13:50		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #867305

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	13:51	NA	8.94	NA	15.69	582.89	0.89	7.5	31.7	-123	Clear
purge	13:55	NA	9.31	NA	15.6	28.27	0.67	7.46	21.2	-120.7	Clear
purge	13:58	NA	9.31	NA	15.5	406.03	0.86	7.43	19.1	-126.9	Clear
purge	14:01	NA	9.31	NA	15.53	468.38	0.6	7.41	14.2	-125.5	Clear
purge	14:04	NA	9.31	NA	15.55	193.85	0.59	7.4	9.04	-123.3	Clear
purge	14:07	NA	9.31	NA	15.51	270.37	1.13	7.39	6.19	-120.6	Clear
purge	14:10	NA	9.31	NA	15.52	96.05	0.54	7.4	4.23	-125.8	Clear
purge	14:13	NA	9.31	NA	15.46	467.88	0.54	7.41	3.26	-127.3	Clear

Initial/Potentiometric WL: 8.94 Date: 9/20/2023 Time: 13:50

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 20, 2023 | Time: 13:50
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 20, 2023 | Time: 14:50

WELL INFORMATION

Well ID: VER-004
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	14:16	NA	9.31	NA	15.51	69.16	0.74	7.42	2.88	-126.7	Clear
purge	14:19	NA	9.31	NA	15.56	202.27	0.53	7.44	2.66	-121.6	Clear
purge	14:22	NA	9.31	NA	15.52	469.8	0.66	7.46	1.96	-133.1	Clear
purge	14:25	NA	9.31	NA	15.49	91.45	0.57	7.49	1.71	-132.3	Clear
purge	14:28	NA	9.31	NA	15.57	112.08	0.61	7.51	1.67	-134	Clear
purge	14:31	NA	9.31	NA	15.53	119.95	0.82	7.52	1.59	-134	Clear
purge	14:34	NA	9.31	NA	15.52	311.88	0.59	7.54	1.24	-138.9	Clear
purge	14:37	NA	9.31	NA	15.56	134.88	0.57	7.55	1.13	-137.8	Clear
purge	14:40	NA	9.31	NA	15.56	489.87	0.71	7.57	1.03	-136.8	Clear
purge	14:43	NA	9.31	NA	15.65	195.91	0.71	7.57	0.98	-138.7	Clear
Max purge time reached. Sampled at 14:50											

NOTES (continued)

MS/MSD samples collected @ 14:55.
Ferrous iron reading = underrange

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 21, 2023 Time: 10:35
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 21, 2023 Time: 10:57

WELL INFORMATION

Well ID: VER-005
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA04660
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 400 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	9.68	10:35		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	10:35	NA	9.68	NA	15.48	720.48	1.12	7.32	3.52	28.7	Clear
purge	10:38	NA	10.15	NA	15.1	722.13	0.13	7.44	138	-2.1	Slightly turbid
purge	10:41	NA	10.09	NA	15.05	722.34	0.08	7.46	106	-8.7	Slightly turbid
purge	10:44	NA	10	NA	15.05	723.18	0.04	7.47	59.5	-13.2	Clear
purge	10:47	NA	10	NA	15.02	723.8	0.03	7.49	34.4	-14.7	Clear
purge	10:50	NA	10	NA	15	724.85	0.01	7.5	27.9	-15.1	Clear
purge	10:53	NA	10	NA	14.92	725.02	0.01	7.5	23.2	-15.3	Clear
purge	10:57	NA	10	NA	14.91	724.87	0.01	7.51	19.1	-15.1	Clear

NOTES

Initial/Potentiometric WL: 9.68 Date: 9/21/23 Time: 10:35

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: Vermilion Power Station | Client: Vistra Energy

Project Number: 1940103649 | Task #: | Start Date: September 21, 2023 | Time: 10:35

Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 21, 2023 | Time: 10:57

WELL INFORMATION

Well ID: VER-005

Casing ID: inches

EVENT TYPE

☐ Well Development ■ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Stable at 10:57. Sampled at 10:57											

NOTES (continued)

Ferrous Iron reading = underrange

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 18, 2023
Time: 13:17
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 18, 2023
Time:

WELL INFORMATION

Well ID: VER-007R
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ☐ Pump
Bailer Type: n/a
Pump Type and Serial #:
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	15.94	13:17		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons
3 Well Volumes: Gallons
5 Well Volumes: Gallons
10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial #: AquaTroll 600

WATER QUALITY INDICATOR PARAMETERS

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

NOTES

Initial/Potentiometric WL: 16 Date: 9/18/23 Time: 13:17
Well obstructed. No sample collected.

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 18, 2023
Time: 13:17
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 18, 2023
Time:

WELL INFORMATION

Well ID: VER-007R
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 21, 2023 | Time: 9:15
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 21, 2023 | Time: 9:30

WELL INFORMATION

Well ID: VER-008R
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA05081
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 160 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	14.4	9:15		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #867305

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	9:17	NA	14.4	NA	15.02	1694.3	1.11	7.92	4853	-109.8	Turbid
purge	9:20	NA	14.4	NA	15.02	1689	0.45	8	33.53	-116.4	Turbid
	9:23	NA	14.4	NA	15.02	1685.2	0.36	8.04	31.99	-119.8	Turbid
	9:26	NA	14.4	NA	15.02	1686	0.35	8.03	35.48	-118.3	Turbid
Stabilized. Sample collected at 09:30											

NOTES

Initial/Potentiometric WL: 14 Date: 09/21/23Time: 09:15

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 21, 2023 Time: 9:15
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 21, 2023 Time: 9:30

WELL INFORMATION

Well ID: VER-008R
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

NOTES (continued)

Ferrous Iron reading = 0.669 ppm

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: Vermilion Power Station
Client: Vistra
Project Number: 1940103649
Task #:
Start Date: September 19, 2023 Time: 9:20
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 19, 2023 Time: 10:20

WELL INFORMATION

Well ID: VER-010
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 / FAO5081
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	50.64	9:24		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #867305

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	9:24	NA	50.64	NA	15.13	1,422.80	3.64	6.91	215.76	216.2	Clear
purge	9:29	NA	50.64	NA	14.47	1,441.60	3.63	6.91	114.2	218.4	Clear
purge	9:34	NA	50.64	NA	14.71	1,436.30	3.67	6.92	99.45	212	Clear
purge	9:39	NA	50.64	NA	14.93	1412.4	3.04	6.95	112.68	155.8	Clear
purge	9:44	NA	50.64	NA	15.57	1410.5	2.88	6.96	117.35	143.4	Clear
purge	9:49	NA	50.64	NA	15.7	1,387.10	2.41	6.97	70.73	81.1	Clear
purge	9:53	NA	50.64	NA	15.71	1368	2.04	6.98	41.86	60.3	Clear
purge	9:58	NA	50.64	NA	16.13	1373.8	2.22	6.96	57.93	81.3	Clear

NOTES

Initial/Potentiometric WL: 50.64 Date: 9/19/2023 Time: 09:20

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: Vermilion Power Station | Client: Vistra

Project Number: 1940103649 | Task #: | Start Date: September 19, 2023 | Time: 9:20

Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 19, 2023 | Time: 10:20

WELL INFORMATION

Well ID: VER-010

Casing ID: inches

EVENT TYPE

☐ Well Development ■ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	10:03	NA	50.64	NA	16.22	1385.3	2.6	6.94	50.19	136.7	Clear
purge	10:08	NA	50.64	NA	16.16	1388.2	2.78	6.93	36.96	176.1	Clear
purge	10:10	NA	50.64	NA	16.06	1388.5	2.82	6.94	45.77	184.8	Clear
purge	10:15	NA	50.64	NA	16.48	1386.9	2.96	6.94	43.84	195.7	Clear
STABILIZED. Sample collected at 10:20											

NOTES (continued)

Duplicate sample collected @ 10:20. Ferrous Iron Reading = Underrange

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 21, 2023 | Time: 15:40
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 21, 2023 | Time: 16:10

WELL INFORMATION

Well ID: VER-016A
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Peristaltic Pump #24345
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	9.60	15:40		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst | Water Quality Probe Type and Serial # AquaTroll 600

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	15:45	NA	10	NA	22.06	0.002	9.9	6.82	4.61	128	slightly
purge	15:50	NA	10.94	NA	21.51	0.002	9.6	6.81	4.77	92	slightly
purge	15:55	NA	11.9	NA	21.61	0.002	9..29	6.75	4.64	100	slightly
purge	15:58	NA	11.96	NA	21.61	0.002	9.26	6.74	4.63	106	slightly
purge	16:01	NA	12.19	NA	21.6	0.002	9.23	6.74	4.63	103	slightly
purge	16:04	NA	12.63	NA	21.58	0.002	9.21	6.71	4.61	110	slightly
Stabilized. Sample collected at 16:10											

NOTES

Initial/Potentiometric WL: 9.60 Date: 09/21/23 Time: 15:40

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 21, 2023 Time: 15:40
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 21, 2023 Time: 16:10

WELL INFORMATION

Well ID: VER-016A
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

NOTES (continued)

Ferrous Iron reading = underrange.

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 18, 2023
Time: 14:04
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 18, 2023
Time:

WELL INFORMATION

Well ID: VER-016B!
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ☐ Pump
Bailer Type: n/a
Pump Type and Serial #:
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	Dry	14:04		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons
3 Well Volumes: Gallons
5 Well Volumes: Gallons
10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial #: AquaTroll 600

WATER QUALITY INDICATOR PARAMETERS

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

NOTES

Initial/Potentiometric WL: Dry Date: 09/18/23Time: 14:04
Well dry. No sample collected.

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 18, 2023
Time: 14:04
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 18, 2023
Time:

WELL INFORMATION

Well ID: VER-016B!
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 21, 2023 Time: 7:52
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 21, 2023 Time: 8:51

WELL INFORMATION

Well ID: VER-017
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 / FA04650
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 350 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	39.91	7:52		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	7:52	NA	39.91	NA	14.01	2,051.20	4.81	7.05	180	179	Slightly turbid
purge	7:57	NA	BTOP	NA	13.85	2,015.10	0.68	6.86	178	-35.6	Slightly turbid
purge	8:00	NA	BTOP	NA	13.39	1,987.10	0.28	6.78	93.3	-18.7	Clear
purge	8:03	NA	BTOP	NA	13.32	1,977.20	0.17	6.73	66.9	1.7	Clear
purge	8:06	NA	BTOP	NA	13.3	1,978.00	0.13	6.72	56.6	5.3	Clear
purge	8:09	NA	BTOP	NA	13.44	1,982.50	0.15	6.72	66.6	0.4	Clear
purge	8:12	NA	BTOP	NA	13.4	1,778.40	0.52	6.73	64.3	-7.5	Clear
purge	8:15	NA	BTOP	NA	13.36	1,651.00	0.39	6.75	53	-17.1	Clear

NOTES

Initial/Potentiometric WL: 39.91 Date: 9/21/2023 Time: 07:52

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 21, 2023 Time: 7:52
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 21, 2023 Time: 8:51

WELL INFORMATION

Well ID: VER-017
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	8:18	NA	BTOP	NA	13.36	1,606.10	0.39	6.77	56.9	-25.1	Clear
purge	8:21	NA	BTOP	NA	13.36	1,792.70	0.37	6.79	48.8	-30.9	Clear
purge	8:24	NA	BTOP	NA	13.37	1,950.90	0.26	6.8	40.1	-34	Clear
purge	8:27	NA	BTOP	NA	13.65	1,960.90	0.39	6.82	37.7	-38.5	Clear
purge	8:30	NA	BTOP	NA	14.19	1,998	0.62	6.86	28.4	-48.7	Clear
purge	8:33	NA	BTOP	NA	14.52	2,050	0.85	6.92	37.7	-63.1	Clear
purge	8:36	NA	BTOP	NA	14.66	2,107.10	1.28	6.98	28.1	-71.5	Clear
purge	8:39	NA	BTOP	NA	14.84	2,128.80	2.15	7.01	23	-68.4	Clear
purge	8:42	NA	BTOP	NA	14.93	2,159	2.04	7.04	17.4	-71.2	Clear
purge	8:45	NA	BTOP	NA	14.9	2,164.40	1.91	7.05	13	-71	Clear
purge	8:48	NA	BTOP	NA	14.85	2,167.70	1.75	7.06	12.4	-70.6	Clear
purge	8:51	NA	BTOP	NA	14.85	2,171	1.57	7.06	8.34	-70.5	Clear
Max purge time reached. Sampled at 08:51											

NOTES (continued)

Water level below top of pump (BTOP). Ferrous Iron reading = overrange

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 21, 2023 Time: 12:40
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 21, 2023 Time: 13:07

WELL INFORMATION

Well ID: VER-020
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 / FA04650
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 400 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	15.62	12:40		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	12:40	NA	15.62	NA	14.21	685.45	0.22	7.02	106	-21.2	Clear
purge	12:43	NA	16	NA	14.2	700.58	0.14	6.96	66.8	-15.4	Clear
purge	12:46	NA	16	NA	14.22	708.73	0.11	6.93	35.3	-11	Clear
purge	12:49	NA	16	NA	14.31	714.16	0.11	6.92	33.7	-9.2	Clear
purge	12:52	NA	16	NA	14.25	718.81	0.09	6.92	14.7	-9.7	Clear
purge	12:55	NA	16	NA	14.24	722	0.07	6.93	13.5	-11	Clear
purge	12:58	NA	16.02	NA	14.18	726.61	0.05	6.94	11.7	-12.4	Clear
purge	13:01	NA	16.1	NA	14.2	725.83	0.04	6.95	9.97	-14.5	Clear

NOTES

Initial/Potentiometric WL: 15.62 Date: 9/21/2023 Time: 12:40

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 21, 2023
Time: 12:40
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 21, 2023
Time: 13:07

WELL INFORMATION

Well ID: VER-020
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	13:04	NA	16.1	NA	14.08	727.42	0.03	6.97	13.3	-16.1	Clear
purge	13:07	NA	16.1	NA	14.07	729.57	0.03	6.98	6.86	-17.3	Clear
Stabilized at 13:07. Sampled at 13:07.											

NOTES (continued)

Ferrous Iron reading = underrange.

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 20, 2023 | Time: 10:05
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 20, 2023 | Time: 10:20

WELL INFORMATION

Well ID: VER-021
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA05081
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 250 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	91.46	10:05		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst | Water Quality Probe Type and Serial #: AquaTroll 600 #867305

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	10:03	NA	91.46	NA	15.67	683.83	6.44	7.28	0.46	-3.4	Clear
purge	10:04	NA	91.46	NA	14.09	689.2	4.68	7.27	4.79	-24.9	Clear
purge	10:05	NA	91.46	NA	13.86	691.63	2.55	7.18	2.44	-41.9	Clear
purge	10:08	NA	93.78	NA	13.57	699.79	1.04	7.29	11.7	-77.9	Clear
purge	10:11	NA	94.38	NA	13.5	701.53	0.67	7.34	15.5	-89.9	Clear
purge	10:14	NA	95.49	NA	13.41	703.08	0.52	7.37	11.8	-98.4	Clear
purge	10:17	NA	95.49	NA	13.35	704.45	0.42	7.4	7.94	-108.7	Clear
purge	10:20	NA	95.95	NA	13.43	704.13	0.38	7.42	7.94	-116.2	Clear

Stabilized at 10:19. Sampled at 10:20

NOTES

Initial/Potentiometric WL: 91.46 Date: 9/20/2023 Time: 10:05

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: Vermilion Power Station | Client: Vistra Energy

Project Number: 1940103649 | Task #: | Start Date: September 20, 2023 | Time: 10:05

Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 20, 2023 | Time: 10:20

WELL INFORMATION

Well ID: VER-021

Casing ID: inches

EVENT TYPE

☐ Well Development ☐ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

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

NOTES (continued)

Switched to HACH at 10:05 for turbidity measurements.
Ferrous Iron reading = 2.424 ppm

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 19, 2023 Time: 8:06
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 19, 2023 Time: 9:20

WELL INFORMATION

Well ID: VER-022
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 / FA04650
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 440 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	56.33	8:06		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	8:06	NA	56.33	NA	15.55	533.25	4.98	7.48	210.99	-58.1	Clear
purge	8:11	NA	59.32	NA	14.03	0.07	5.6	7.33	479,11	64.3	Clear
purge	8:16	NA	59,32	NA	13.88	122.22	2.13	7.32	951.35	47	Clear
purge	8:21	NA	61.42	NA	13.86	247.72	1.7	7.32	777.02	40.7	Clear
purge	8:26	NA	61.42	NA	13.85	11.77	4.79	7.32	372.79	21.9	Clear
purge	8:31	NA	61.42	NA	13.89	0.07	4.6	7.33	2700.9	29	Clear
purge	8:36	NA	61.42	NA	13.77	0.07	0.91	7.32	0.00	34.9	Clear
purge	8:36	NA	61.42	NA	13.82	0.07	1.03	7.33	0.00	34.3	Clear

NOTES

Initial/Potentiometric WL: 56.33 Date: 9/19/23 Time: 08:06

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 19, 2023 | Time: 8:06
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 19, 2023 | Time: 9:20

WELL INFORMATION

Well ID: VER-022
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	8:41	NA	61.42	NA	13.79	0.07	0.56	7.33	114.07	37.7	Clear
purge	8:46	NA	62.42	NA	13.88	0.07	0.71	7.35	0.00	24.3	Clear
purge	8:51	NA	63.42	NA	13.77	30.25	1.88	7.36	0.00	-1.4	Clear
purge	8:54	NA	64.42	NA	13.76	38.37	1.08	7.38	0.00	-9.8	Clear
purge	8:59	NA	65.42	NA	13.89	16.1	2.21	7.39	0.00	-6.3	Clear
purge	9:00	NA	66.42	NA	13.72	760.27	1.54	7.4	0.00	-7.5	Clear
purge	9:05	NA	67.42	NA	13.72	40.71	1	7.4	0.00	-1.2	Clear
purge	9:10	NA	68.42	NA	13.68	37.73	0.67	7.41	0.00	-5.4	Clear
purge	9:15	NA	69.42	NA	13.91	0.07	0.83	7.42	0.00	-10.7	Clear
Max purge time reached. Sampled at 9:20											

NOTES (continued)

MS/MSD 1.
Ferrous Iron Reading = 1.921 ppm

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 21, 2023 Time: 13:42
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 21, 2023 Time: 14:46

WELL INFORMATION

Well ID: VER-034
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 / FA04650
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 400 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	15.39	13:42		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	13:46	NA	15.39	NA	14.95	915	0.56	7.16	94.07	-126.2	slightly
purge	13:49	NA	15.39	NA	12.87	884.01	0	7	170.77	-124	slightly
purge	13:52	NA	15.8	NA	12.98	850.35	0	6.93	114.36	-121.5	slightly
purge	13:55	NA	15.8	NA	12.73	953.18	0	6.88	369.01	-120.8	slightly
purge	13:58	NA	15.7	NA	12.79	930.83	0	6.85	187.66	-121.5	slightly
purge	14:01	NA	15.7	NA	12.7	905.33	0	6.85	146.34	-122	slightly
purge	14:04	NA	15.8	NA	12.69	893.7	0	6.85	372.66	-123.2	slightly
purge	14:07	NA	15.81	NA	12.72	834.23	0	6.85	119.49	-124.2	slightly

Notes

Initial/Potentiometric WL: 15.39 Date: 9/21/23 Time: 13:42

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

WELL INFORMATION	EVENT TYPE
Well ID: VER-034	☐ Well Development ☐ Low-Flow / Low Stress Sampling
Casing ID: inches	☐ Well Volume Approach Sampling ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	14:10	NA	15.83	NA	12.65	946.51	0	6.86	109.8	-125.3	slightly
purge	14:13	NA	15.79	NA	12.69	929.42	0	6.87	89.45	-126.3	clear
purge	14:16	NA	15.76	NA	12.59	902.29	0	6.88	91.7	-127.2	clear
purge	14:19	NA	15.76	NA	12.7	881.7	0	6.88	106.73	-128.2	slightly
purge	14:22	NA	15.76	NA	12.59	852.94	0	6.89	63.81	-129.1	clear
purge	14:25	NA	15.76	NA	12.71	828.38	0	6.91	71.81	-130	clear
purge	14:28	NA	15.76	NA	12.59	866.33	0	6.92	150.78	-130.8	slightly
purge	14:31	NA	15.76	NA	12.66	948.33	0	6.93	78.59	-131.8	clear
purge	14:34	NA	15.76	NA	12.61	932.88	0	6.94	49.12	-132.9	clear
purge	14:37	NA	15.76	NA	12.63	922.38	0	6.95	63.3	-133.9	clear
purge	14:40	NA	15.76	NA	12.6	891.69	0	6.96	43.93	-134.9	clear
purge	14:43	NA	15.76	NA	12.6	864.32	0	6.97	48.4	-135.8	clear
purge	14:46	NA	15.76	NA	12.62	859.19	0	6.99	45.12	-136.6	clear
Stabilized at 14:46. Sampled at 14:46											

Aquatroll turbidity malfunction. Used HACH 2100Q for turbidity readings.
Ferrous Iron = underrange

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 22, 2023 Time: 9:10
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 22, 2023 Time: 9:35

WELL INFORMATION

Well ID: VER-035D
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 / FA04650
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	11.3	9:20		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #867121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	09:20	NA	11.3	NA	15.65	4504.5	0.57	7.37	4.33	-120.1	Slightly
purge	09:23	NA	12.13	NA	14.69	4520.1	0.23	7.32	3.53	-125.9	clear
purge	09:26	NA	16.82	NA	14.36	4540	0.17	7.3	6.99	-127.3	clear
purge	09:29	NA	18.64	NA	14.05	4492.2	0.11	7.31	3.03	-131.5	clear
purge	09:32	NA	18.64	NA	13.86	4521.3	0.13	7.33	3.67	-132.8	clear
sample	09:35	NA	20.62	NA	13.73	4516	0.08	7.33	3.1	-132.5	clear
Stabilized at 09:35. Sampled at 09:35											

NOTES

Initial/Potentiometric WL: 11.3 Date: 9/22/23 Time: 09:20

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 22, 2023 Time: 9:10
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 22, 2023 Time: 9:35

WELL INFORMATION

Well ID: VER-035D
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

NOTES (continued)

Duplicate sample collected @ 09:40.
Aquatroll turbidity malfunction. Used HACH 2100Q for turbidity readings.
Ferrous Iron = 2.850 ppm

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 18, 2023
Time: 13:40
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 18, 2023
Time:

WELL INFORMATION

Well ID: VER-035S
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ☐ Pump
Bailer Type: n/a
Pump Type and Serial #:
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	Dry	13:40		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons
3 Well Volumes: Gallons
5 Well Volumes: Gallons
10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial #: AquaTroll 600

WATER QUALITY INDICATOR PARAMETERS

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

NOTES

Initial/Potentiometric WL: Dry Date: 9/18/23 Time: 13:40
Well dry. No sample collected.

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 18, 2023
Time: 13:40
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 18, 2023
Time:

WELL INFORMATION

Well ID: VER-035S
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 20, 2023 | Time: 10:35
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 20, 2023 | Time: 10:47

WELL INFORMATION

Well ID: VER-036
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA04650
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 400 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	14.95	10:35		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	10:35	NA	14.95	NA	26.22	0.05	7.16	7.27	28.3	45.3	Clear
purge	10:38	NA	15.10	NA	14.39	1,899.10	0.1	7.14	10.2	-119.2	Clear
purge	10:41	NA	15.15	NA	14.64	1,917.70	0.06	7.06	5.12	-113.9	Clear
purge	10:44	NA	15.05	NA	14.58	1,956.40	0.03	7.05	3.72	-111.0	Clear
purge	10:47	NA	15.05	NA	14.67	1,976.80	0.02	7.06	3.49	-110.3	Clear
Stabilized at 10:47. Sampled at 10:47											

NOTES

Initial/Potentiometric WL: 14.95 Date: 9/20/2023 Time: 10:35

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 20, 2023
Time: 10:35
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 20, 2023
Time: 10:47

WELL INFORMATION

Well ID: VER-036
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

NOTES (continued)

Ferrous Iron reading = 6.454 ppm

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 20, 2023 Time: 11:37
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 20, 2023 Time: 12:31

WELL INFORMATION

Well ID: VER-037
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA04650
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 300 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	8.96	11:37		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	11:37	NA	8.96	NA	19.65	1,277.30	1.07	6.99	62.9	-99.8	Slightly Turbid
purge	11:40	NA	9.41	NA	15.91	1,328.60	0.53	6.84	9.19	-116.7	Clear
purge	11:43	NA	9.41	NA	15.34	1,307.70	0.53	6.83	3.66	-123.3	Clear
purge	11:46	NA	9.41	NA	15.09	1,328.30	0.42	6.85	3.9	-124.4	Clear
purge	11:49	NA	9.41	NA	15.33	1,285.40	0.37	6.86	6.57	-124.6	Clear
purge	11:52	NA	9.41	NA	15.27	1,223.50	0.31	6.86	7.36	-125.6	Clear
purge	11:55	NA	9.41	NA	15.42	1,299.00	0.53	6.87	9.42	-124.0	Clear
purge	11:57	NA	9.39	NA	15.53	1,243.10	0.64	6.88	10.4	-122.3	Clear

NOTES

Initial/Potentiometric WL: 8.96 Date: 9/20/2023 Time: 11:37

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 20, 2023 | Time: 11:37
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 20, 2023 | Time: 12:31

WELL INFORMATION

Well ID: VER-037
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	12:01	NA	9.12	NA	15.55	1,339.90	0.66	6.88	10.4	-121.4	Clear
purge	12:04	NA	9.10	NA	17.28	1,322.80	0.89	6.87	10.5	-117.8	Clear
purge	12:07	NA	9.10	NA	20.79	1,317.60	1.36	6.86	12.8	-114	Clear
purge	12:10	NA	9.11	NA	15.48	1,312.50	0.46	6.86	15.4	-119	Clear
purge	12:13	NA	9.30	NA	15.05	1,313.40	0.42	6.89	10.3	-120.3	Clear
purge	12:16	NA	9.30	NA	14.97	1,271.00	0.41	6.88	9.64	-120.7	Clear
purge	12:19	NA	9.30	NA	15.04	1,328.70	0.4	6.87	14.3	0129,3	Clear
purge	12:22	NA	9.30	NA	14.82	1,260.90	0.46	6.88	14.1	0118,6	Clear
purge	12:25	NA	9.30	NA	14.93	1,277.80	0.35	6.87	10.8	-120.3	Clear
purge	12:28	NA	9.30	NA	14.9	1,303	0.4	6.88	11.3	-120.1	Clear
purge	12:31	NA	9.30	NA	14.89	1,320.20	0.34	6.87	11.2	-119.6	Clear
Stabilized at 12:31. Sampled at 12:31											

NOTES (continued)

At 11:57, marine battery for MP50 died. Replaced at 12:06. Ferrous Iron reading = 4.031 ppm

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 21, 2023 | Time: 15:35
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 21, 2023 | Time: 15:45

WELL INFORMATION

Well ID: VER-038
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA05081
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 760 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	9.11	15:35		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial #: AquaTroll 600 #867305

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	15:35	NA	9.11	NA					17		Clear
purge	15:38	NA	9.28	NA					8.83		Clear
purge	15:41	NA	9.32	NA	12.51	1,067.60	0.03	7.02	9.88	-121.7	Clear
Stabilized at 15:41. Sampled at 15:45											

NOTES

Initial/Potentiometric WL: 9.11 Date: 9/21/2023 Time: 15:35

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 21, 2023
Time: 15:35
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 21, 2023
Time: 15:45

WELL INFORMATION

Well ID: VER-038
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

NOTES (continued)

Ferrous Iron reading = Over range

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 21, 2023 | Time: 13:53
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 21, 2023 | Time: 14:30

WELL INFORMATION

Well ID: VER-040
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA04650
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	14.70	13:53		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial #: AquaTroll 600 #867121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	13:53	NA	14.70	NA					12.12		Clear
purge	13:56	NA	20.95	NA					7.74		Clear
purge	13:59	NA	21.90	NA					3.33		Clear
purge	14:02	NA	21.99	NA					2.72		Clear
purge	14:05	NA	21.30	NA					1.82		Clear
purge	14:08	NA	21.60	NA					2.50		Clear
purge	14:11	NA	21.60	NA					2.30		Clear

Stabilized at 14:30. Sampled at 14:30

NOTES

Initial/Potentiometric WL: 14.70 Date: 9/21/2023 Time: 13:53

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 21, 2023 Time: 13:53
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 21, 2023 Time: 14:30

WELL INFORMATION

Well ID: VER-040
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

NOTES (continued)

Ferrous Iron reading = Over range

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 20, 2023 Time: 11:50
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 20, 2023 Time: 12:35

WELL INFORMATION

Well ID: VER-041
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA5081
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 280 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	7.12	11:50		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #867305

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	12:00	NA	7.12	NA	14.61	1,242.40	1.16	7.1	38	-104.9	Clear
purge	12:03	NA	7.13	NA	14.32	1,216.40	0.91	7.06	67.1	-103.6	Clear
purge	12:06	NA	7.18	NA	14.34	1,047.90	0.97	7.05	36.2	-103.1	Clear
purge	12:09	NA	7.18	NA	14.28	1,203.70	0.94	7.06	31.9	-102.6	Clear
purge	12:12	NA	7.18	NA	14.17	1,217.20	0.99	7.07	25.8	-102.9	Clear
purge	12:15	NA	7.18	NA	14.17	1,176.10	1.01	7.07	18.6	-102.4	Clear
purge	12:18	NA	7.18	NA	14.17	1,164.70	0.93	7.08	22.0	-103.2	Clear
purge	12:21	NA	7.18	NA	14.09	1,164.70	0.96	7.09	15.6	-103.9	Clear

NOTES

Initial/Potentiometric WL: 7.12 Date: 9/20/2023 Time: 11:50

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 20, 2023 | Time: 11:50
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 20, 2023 | Time: 12:35

WELL INFORMATION

Well ID: VER-041
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	12:24	NA	7.18	NA	14.11	1,186.10	1.03	7.09	14.1	-104.1	Clear
purge	12:27	NA	7.21	NA	14.13	1,167.60	0.89	7.10	14.4	-105.1	Clear
purge	12:30	NA	7.20	NA	14.11	1,171.20	1.03	7.11	15.9	-105.1	Clear
Stabilized at 12:30. Sampled at 12:35.											

NOTES (continued)

Ferrous Iron reading = 4.522 ppm

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 21, 2023 | Time: 13:22
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 21, 2023 | Time: 13:35

WELL INFORMATION

Well ID: VER-042
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA05081
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 720 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	26.88	13:22		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #867305

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	13:22	NA	26.88	NA	11.93	1,020.00	1.27	7.48	16.9	-136.3	Clear
purge	13:25	NA	27.15	NA	11.74	1,025.10	0.64	7.38	8.58	-129.5	Clear
purge	13:28	NA	27.19	NA	11.79	1,020.20	0.8	7.36	6.65	-129.5	Clear
purge	13:31	NA	27.17	NA	11.72	1,015.20	0.73	7.36	5.72	-124	Clear
Stabilized at 13:31. Sampled at 13:35											

NOTES

Initial/Potentiometric WL: 26.88 Date: 9/21/2023 Time: 13:35

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 21, 2023 Time: 13:22
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 21, 2023 Time: 13:35

WELL INFORMATION

Well ID: VER-042
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

NOTES (continued)

Ferrous Iron reading = 3.591 ppm

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 21, 2023 | Time: 14:11
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 21, 2023 | Time: 14:30

WELL INFORMATION

Well ID: VER-043
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA05081
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 720 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	16.81	14:11		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial #: AquaTroll 600 #867305

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	14:11	NA	16.81	NA	12.57	1,153.80	0.52	7.35	3.61	-101.7	Clear
purge	14:14	NA	19.4	NA	12.44	1,171.20	0.25	7.34	20.3	-121.2	Clear
purge	14:17	NA	19.81	NA	12.48	1,167.60	0.22	7.33	15.8	-125.3	Clear
purge	14:20	NA	20.02	NA	12.65	1,163.20	0.43	7.34	13.5	-127.6	Clear
purge	14:23	NA	19.95	NA	12.66	1,162.20	0.28	7.36	9.84	-127.6	Clear
purge	14:26	NA	19.95	NA	12.59	1,159.30	0.3	7.37	7.43	-128.5	Clear
Stabilized at 14:26. Sampled at 14:30											

NOTES

Initial/Potentiometric WL: 16.81 Date: 9/21/2023 Time: 14:11

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 21, 2023 | Time: 14:11
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 21, 2023 | Time: 14:30

WELL INFORMATION

Well ID: VER-043
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

NOTES (continued)

Ferrous Iron reading = 4.603 ppm

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 19, 2023 Time: 12:50
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 19, 2023 Time: 13:45

WELL INFORMATION

Well ID: VER-070S
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA04650
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 400 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	15.97	12:50		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	12:50	NA	15.97	NA	14.12	1,349.60	0.00	6.87	854.11	-14.5	Slightly Turbid
purge	12:51	NA	15.97	NA	13.8	1.350.0	0.00	6.88	861.79	-17	Slightly Turbid
purge	12:56	NA	15.97	NA	13.75	1362.2	0.00	6.96	645.06	14.3	Slightly Turbid
purge	13:01	NA	15.97	NA	13.44	1369.9	0.00	6.99	673.78	34.5	Slightly Turbid
purge	13:06	NA	15.97	NA	12.89	1377.7	0.00	7.00	741.71	48.3	Slightly Turbid
purge	13:07	NA	15.97	NA	12.92	1376.1	0.00	7.00	729.26	50	Slightly Turbid
purge	13:12	NA	15.97	NA	12.76	1378.9	0.00	7.00	707.07	59.3	Slightly Turbid
purge	13:17	NA	15.97	NA	12.71	1375.6	0.00	7.03	710.48	67.1	Slightly Turbid

NOTES

Initial/Potentiometric WL: 15.97 Date: 9/19/2023 Time: 12:50

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: Vermilion Power Station | Client: Vistra Energy

Project Number: 1940103649 | Task #: | Start Date: September 19, 2023 | Time: 12:50

Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 19, 2023 | Time: 13:45

WELL INFORMATION

Well ID: VER-070S

Casing ID: inches

EVENT TYPE

☐ Well Development ■ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	13:22	NA	15.97	NA	12.71	1365.9	0.00	7	402.3	73.1	Slightly Turbid
purge	13:27	NA	15.97	NA	12.64	1366.9	0.00	7	410.62	77.2	Slightly Turbid
purge	13:32	NA	15.97	NA	12.65	1367.2	0.00	7.03	451.32	80	Slightly Turbid
purge	13:37	NA	15.97	NA	12.63	1365.9	0.00	7.05	467.03	81.7	Slightly Turbid
purge	13:42	NA	15.97	NA	12.63	1359.1	0.00	7.07	519.08	82.9	Slightly Turbid
purge	13:47	NA	15.97	NA	12.67	1347.1	0.00	7.09	572.11	83.5	Slightly Turbid
Stabilized at 13:42. Sampled at 13:45											

NOTES (continued)

DO reading 0.00. Checked the probe at 12:50 and no issues were observed. Duplicate sample collected @ 13:50. Ferrous Iron Reading = underrange

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 19, 2023 Time: 14:54
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 19, 2023 Time: 15:35

WELL INFORMATION

Well ID: VER-070D
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA04650
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 400 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	30.25	14:54		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	14:54	NA	30.25	NA	15.75	3,211.70	3.21	7.16	47.40	-46.3	Clear
purge	14:54	NA	30.25	NA	14.95	3,522.40	1.84	7.18	29.70	-69.4	Clear
purge	14:59	NA	36.95	NA	13.65	3,210	0.67	7.04	29.4	-21.7	Clear
purge	15:04	NA	36.95	NA	13.67	3,087.10	0.54	6.98	25.5	5.7	Clear
purge	15:09	NA	42.1	NA	14.05	2,173.40	2.96	6.97	14.1	32.7	Clear
purge	15:14	NA	42.1	NA	13.69	1,746.00	2.71	6.96	13.4	50.2	Clear
purge	15:19	NA	42.3	NA	13.41	2,614.30	1.7	6.95	13.4	60.5	Clear
purge	15:24	NA	42.3	NA	13.08	2,592.20	0.31	6.94	6.82	53.9	Clear

Notes

Initial/Potentiometric WL: 30.25 Date: 9/19/2023 Time: 14:54

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 19, 2023 | Time: 14:54
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 19, 2023 | Time: 15:35

WELL INFORMATION

Well ID: VER-070D
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	15:29	NA	45.12	NA	13.07	2,566.90	0.28	66.54	6.82	56.9	Clear
purge	15:34	NA	45.12	NA	13.29	2,539.10	0.34	103.6	5.48	63.6	Clear
Stabilized at 15:34. Sampled at 15:35											

NOTES (continued)

Aquatroll turbidity malfunction. Used HACH 2100Q for turbidity readings. Ferrous Iron = underrange

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 19, 2023 | Time: 14:50
Field Personnel: Barley/Kikkert/Tabares | Finish Date: September 19, 2023 | Time:

WELL INFORMATION

Well ID: VER-071S
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ☐ Pump
Bailer Type: n/a
Pump Type and Serial #:
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	BTOP			
Groundwater				
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial #: AquaTroll 600

WATER QUALITY INDICATOR PARAMETERS

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

UNABLE TO PURGE DUE TO INSUFFICIENT WATER IN WELL. Water level below top of pump (BTOP)

NOTES

Initial/Potentiometric WL: Date: Time:

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 19, 2023
Time: 14:50
Field Personnel: Barley/Kikkert/Tabares
Finish Date: September 19, 2023
Time:

WELL INFORMATION

Well ID: VER-071S
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 19, 2023 | Time: 15:04
Field Personnel: | Finish Date: | Time: 15:24

WELL INFORMATION

Well ID: VER-071D
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50 FA05081
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 420 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	37.25	15:04		
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ■ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial # AquaTroll 600 #867305

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	15:04	NA	37.25	NA	24.98	3,897.40	2.39	7.17	355.27	122.5	Clear
purge	15:09	NA	BTOP	NA	15.96	3,618.50	1.78	7.14	110.72	144.6	Clear
purge	15:14	NA	BTOP	NA	16.17	3,762.00	1.05	7.11	4,304.00	132.1	Clear
purge	15:19	NA	BTOP	NA	17.93	3,067.90	1.83	7.10	10.33	138	Clear
purge	15:24	NA	BTOP	NA	21.74	4,020.70	3.18	7.10	10.85	139.7	Clear
Well Purged Dry. Water level below top of pump (BTOP) No sample collected											

NOTES

Initial/Potentiometric WL: 37.25 Date: 9/19/2023 Time: 15:04

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 19, 2023
Time: 15:04
Field Personnel:
Finish Date:
Time: 15:24

WELL INFORMATION

Well ID: VER-071D
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

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

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 25, 2023 Time: 15:29
Field Personnel: Anderson/Tabares
Finish Date: September 25, 2023 Time: 16:12

WELL INFORMATION

Well ID: VER-101
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 300 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	108.55	15:29	110.27	16:12
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial #: AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	15:29	NA	108.55	NA	27.64	838.26	3.54	7.10	961	105.2	Cloudy
purge	15:32	NA	108.55	NA	18.86	842.52	0.57	7.15	Over range	-143.3	Very Cloudy
purge	15:35	NA	108.55	NA	16.69	847.86	0.29	7.18	Over range	-146.5	Very Cloudy
purge	15:38	NA	109.9	NA	16.4	856.02	0.24	7.28	959	-155.8	Very Cloudy
purge	15:41	NA	109.9	NA	18.09	859.34	0.29	7.30	625	-159.8	Very Cloudy
purge	15:44	NA	109.9	NA	18.84	830.09	0.33	7.32	483	-158.7	Very Cloudy
purge	15:47	NA	109.9	NA	19.46	820.99	0.33	7.32	340	-156.2	Very Cloudy
purge	15:50	NA	110.27	NA	19.08	817.10	0.31	7.32	233	-153.5	Very Cloudy

NOTES

Initial/Potentiometric WL: 108.55 Date: 9/25/2023 Time: 15:29

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 25, 2023 | Time: 15:29
Field Personnel: Anderson/Tabares | Finish Date: September 25, 2023 | Time: 16:12

WELL INFORMATION

Well ID: VER-101
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	15:53	NA	110.27	NA	18.05	779.67	0.31	7.33	205	-150.8	Very Cloudy
purge	15:56	NA	110.27	NA	18.19	798.65	0.3	7.33	140	-149.7	Very Cloudy
purge	15:59	NA	110.27	NA	18.43	788.24	0.31	7.32	102	-147.8	Very Cloudy
purge	16:02	NA	110.27	NA	18.7	766.01	0.32	7.32	87.4	-145.4	Very Cloudy
purge	16:05	NA	110.27	NA	18.76	757.28	0.32	7.31	60.9	-143.5	Very Cloudy
purge	16:09	NA	110.27	NA	18.83	741.70	0.33	7.31		-142.5	Very Cloudy
purge	16:12	NA	110.27	NA	18.93	736.61	0.33	7.3		-140.5	Clear/cloudy
Stabilized at 16:12. Sampled at 16:12											

NOTES (continued)

Ferrous Iron reading = under range

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: Vermilion Power Station | Client: Vistra Energy
Project Number: 1940103649 | Task #: | Start Date: September 26, 2023 | Time: 10:19
Field Personnel: Anderson/Tabares | Finish Date: September 26, 2023 | Time: 10:43

WELL INFORMATION

Well ID: VER-103
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

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

PURGE INFORMATION

Purge Method: ☐ Bailer ■ Pump
Bailer Type: n/a
Pump Type and Serial #: Dedicated Bladder with MP50
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 150 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	138.00	10:19	141.28	10:43
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Solinst
Water Quality Probe Type and Serial #: AquaTroll 600 #887121

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	10:19	NA	138	NA	18.84	741.40	8.46	7.12	8.33	24.2	Clear
purge	10:22	NA		NA	17.29	770.80	7.59	7.08		55.4	Clear
purge	10:25	NA		NA	16.89	1,776.70	6.07	7.03	27.6	68.3	Clear
purge	10:28	NA		NA	17.88	1,864.50	5.53	7.03	42.9	72.2	Clear
purge	10:31	NA		NA	18.33	2,057.30	5.42	7.03	43	75.6	Clear
purge	10:34	NA		NA	17.54	2,199.40	5.08	7.03	44.7	79.2	Clear
purge	10:37	NA		NA	17.63	2,272.60	4.91	7.02	44.9	81.9	Clear
purge	10:40	NA		NA	17.67	2,309.50	4.83	7.02	31.6	83.7	Clear

NOTES

Initial/Potentiometric WL: 138.00 Date: 9/26/2023 Time: 10:19

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: Vermilion Power Station
Client: Vistra Energy
Project Number: 1940103649
Task #:
Start Date: September 26, 2023 Time: 10:19
Field Personnel: Anderson/Tabares
Finish Date: September 26, 2023 Time: 10:43

WELL INFORMATION

Well ID: VER-103
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	10:43	NA	141.28	NA	18.03	2,328.00	4.75	7.03	37.4	85.1	Clear
Stabilized at 10:43. Sampled at 10:43											

NOTES (continued)

Ferrous Iron reading = under range

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
10188 E 2150 North Rd
Danville, Illinois 61834

Generated 11/16/23 12:02:12 Revision 1

JOB DESCRIPTION

VER-23Q3
VER_845_912_RAD

JOB NUMBER

500-239823-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

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

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

Authorization

Generated
11/16/23 12:02:12
Revision 1

Authorized for release by
Dirk Nelson, Project Management Assistant II
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Designee for
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Table of Contents

Case Narrative

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Job ID: 500-239823-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative (Comprehensive)
500-239823-2

Revision
The report being provided is a revision of the original report sent on 11/16/23. The report (revision 1) is being revised due to: Created to supply merged comprehensive report.

Receipt
The samples were received on 9/20/2023 11:18 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 17 coolers at receipt time were 0.4º C, 0.8º C, 1.3º C, 1.5º C, 1.6º C, 1.6º C, 1.8º C, 2.2º C, 2.4º C, 2.4º C, 2.5º C, 2.6º C, 2.7º C, 3.3º C, 4.6º C, 5.1º C and 5.3º C.

Receipt Exceptions
Received RAD bottles for samples 27 & 28 not marked on COC.

The Client SAR requests Programs VER_845_912 (includes RAD), VER_SUP_000 and VER_NPDES_912. COC only marked for VER_SUP_000 and VER_NPDES_912. Updated login to match SAR, since containers were received. - dbn 092223

Received COC for VER_035&DEB but no sample.

RAD
Method 903.0: Radium-226 batch 629216
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_070#S (500-239823-1), VER_070#SDUP (500-239823-2), VER_010 (500-239823-3), VER_010DUP (500-239823-4), VER_070&D (500-239823-5), VER_022 (500-239823-6), VER_022_MS (500-239823-6[MS]), VER_022_MSD (500-239823-6[MSD]), (LCS 160-629216/2-A) and (MB 160-629216/1-A).

Method 903.0: Radium-226 batch 629533
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_016A (500-239823-17), (LCS 160-629533/2-A), (MB 160-629533/1-A), (500-239823-N-26-A) and (500-239823-M-26-A DU).

Methods 903.0, 9315: Radium-226 batch 629712
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_035&D (500-239823-27), VER_035&D-DUP (500-239823-28), (LCS 160-629712/2-A), (MB 160-629712/1-A), (160-51573-B-1-A) and (160-51573-C-1-A DU).

Methods 903.0, 9315: Radium-226 629954
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_FB/EB-1 (500-239823-29), (LCS 160-629954/2-A), (MB 160-629954/1-A), (400-243976-A-4-A) and (400-243976-B-4-A DU).

Methods 903.0, 9315: Radium-226 batch 630055
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_EB-1 (500-239823-35), (LCS 160-630055/2-A), (MB 160-630055/1-A), (480-213107-A-4-A), (480-213107-A-4-B MS) and (480-213107-A-4-C MSD).

Job ID: 500-239823-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 904.0: Radium-228 batch 629220
The LCS recovered at (68%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (63-150%) per method requirements. The LCS passes, no further action is required (LCS 160-629220/2-A).

Method 904.0: Radium-228 batch 629220
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_070#S (500-239823-1), VER_070#SDUP (500-239823-2), VER_010 (500-239823-3), VER_010DUP (500-239823-4), VER_070&D (500-239823-5), VER_022 (500-239823-6), VER_022_MS (500-239823-6[MS]), VER_022_MSD (500-239823-6[MSD]), (LCS 160-629220/2-A) and (MB 160-629220/1-A).

Method 904.0: Radium-228 batch 629534
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_016A (500-239823-17), (LCS 160-629534/2-A), (MB 160-629534/1-A), (500-239823-N-26-B) and (500-239823-M-26-B DU).

Methods 904.0, 9320: Radium-228 batch 629714
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_035&D (500-239823-27), VER_035&D-DUP (500-239823-28), (LCS 160-629714/2-A), (MB 160-629714/1-A), (160-51573-B-1-B) and (160-51573-C-1-B DU).

Methods 904.0, 9320: Radium-228 batch 629957
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_FB/EB-1 (500-239823-29), (LCS 160-629957/2-A), (MB 160-629957/1-A), (400-243976-A-4-B) and (400-243976-B-4-B DU).

Methods 904.0, 9320: Radium-228 batch 630056
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_EB-1 (500-239823-35), (LCS 160-630056/2-A), (MB 160-630056/1-A), (480-213107-A-4-D), (480-213107-A-4-E MS) and (480-213107-A-4-F MSD).

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

Job ID: 500-239823-6

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-239823-6

Receipt
The samples were received on 9/20/2023 11:18 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 17 coolers at receipt time were 0.4º C, 0.8º C, 1.3º C, 1.5º C, 1.6º C, 1.6º C, 1.8º C, 2.2º C, 2.4º C, 2.4º C, 2.5º C, 2.6º C, 2.7º C, 3.3º C, 4.6º C, 5.1º C and 5.3º C.

Receipt Exceptions
Received COC for VER_035&DEB but no sample.

Job ID: 500-239823-6 (Continued)

Laboratory: Eurofins Chicago (Continued)

RAD

Methods 903.0, 9315: Radium-226 batch 629461
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_002 (500-239823-7), VER_002DUP (500-239823-8), VER_004 (500-239823-9), VER_004_MS (500-239823-9[MS]), VER_004_MSD (500-239823-9[MSD]), VER_021 (500-239823-10), VER_036 (500-239823-11), VER_037 (500-239823-12), VER_041 (500-239823-13), (LCS 160-629461/2-A) and (MB 160-629461/1-A).

Method 903.0: Radium-226 batch 629533
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_003R (500-239823-14), VER_005 (500-239823-15), VER_008R (500-239823-16), VER_017 (500-239823-18), VER_020 (500-239823-19), VER_034 (500-239823-20), VER_038 (500-239823-21), VER_040 (500-239823-22), VER_042 (500-239823-23), VER_043 (500-239823-24), VER_EB-01 (500-239823-25), VER_EB-02 (500-239823-26), (LCS 160-629533/2-A), (MB 160-629533/1-A) and (500-239823-M-26-A DU).

Methods 903.0, 9315: Radium-226 629954
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_FB/EB-1 (500-239823-29), VER_101& (500-239823-30), (LCS 160-629954/2-A), (MB 160-629954/1-A), (400-243976-A-4-A) and (400-243976-B-4-A DU).

Methods 903.0, 9315: Radium-226 batch 630055
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_103& (500-239823-33), VER_EB-1 (500-239823-35), (LCS 160-630055/2-A), (MB 160-630055/1-A), (480-213107-A-4-A), (480-213107-A-4-B MS) and (480-213107-A-4-C MSD).

Methods 904.0, 9320: Radium-228 batch 629462
The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: VER_041 (500-239823-13). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 batch 629462
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_002 (500-239823-7), VER_002DUP (500-239823-8), VER_004 (500-239823-9), VER_004_MS (500-239823-9[MS]), VER_004_MSD (500-239823-9[MSD]), VER_021 (500-239823-10), VER_036 (500-239823-11), VER_037 (500-239823-12), VER_041 (500-239823-13), (LCS 160-629462/2-A) and (MB 160-629462/1-A).

Method 904.0: Radium-228 batch 629534
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_003R (500-239823-14), VER_005 (500-239823-15), VER_008R (500-239823-16), VER_017 (500-239823-18), VER_020 (500-239823-19), VER_034 (500-239823-20), VER_038 (500-239823-21), VER_040 (500-239823-22), VER_042 (500-239823-23), VER_043 (500-239823-24), VER_EB-01 (500-239823-25), VER_EB-02 (500-239823-26), (LCS 160-629534/2-A), (MB 160-629534/1-A) and (500-239823-M-26-B DU).

Methods 904.0, 9320: Radium-228 batch 629957
The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix

Job ID: 500-239823-6 (Continued)

Laboratory: Eurofins Chicago (Continued)

interferences: VER_101& (500-239823-30). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 batch 629957
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_FB/EB-1 (500-239823-29), VER_101& (500-239823-30), (LCS 160-629957/2-A), (MB 160-629957/1-A), (400-243976-A-4-B) and (400-243976-B-4-B DU).

Methods 904.0, 9320: Radium-228 batch 630056
The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: VER_103& (500-239823-33). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 batch 630056
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_103& (500-239823-33), VER_EB-1 (500-239823-35), (LCS 160-630056/2-A), (MB 160-630056/1-A), (480-213107-A-4-D), (480-213107-A-4-E MS) and (480-213107-A-4-F MSD).

Method PrecSep-21: Radium-226 Prep Batch 160-629954
The following sample(s) were prepared at a reduced aliquot due to matrix. The sample 310-265234-1 was yellow. The samples 500-239823-30 and 380-63993-5 were slightly cloudy. The rest of the selected samples were cloudy.

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

Job ID: 500-239823-8

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-239823-8

Receipt
The samples were received on 9/20/2023 11:18 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 17 coolers at receipt time were 0.4º C, 0.8º C, 1.3º C, 1.5º C, 1.6º C, 1.6º C, 1.8º C, 2.2º C, 2.4º C, 2.4º C, 2.5º C, 2.6º C, 2.7º C, 3.3º C, 4.6º C, 5.1º C and 5.3º C.

RAD
Method 903.0: Radium-226 batch 630506
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_NED1 (500-239823-34), (LCS 160-630506/2-A), (MB 160-630506/1-A), (480-213107-E-4-H), (480-213107-F-4-D MS) and (480-213107-F-4-E MSD).

Method 904.0: Radium-228 batch 630512
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
VER_NED1 (500-239823-34), (LCS 160-630512/2-A), (MB 160-630512/1-A), (480-213107-E-4-I), (480-213107-F-4-F MS) and (480-213107-F-4-G 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-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_070#S — Lab Sample ID: 500-239823-1

No Detections.

Client Sample ID: VER_070#SDUP — Lab Sample ID: 500-239823-2

No Detections.

Client Sample ID: VER_010 — Lab Sample ID: 500-239823-3

No Detections.

Client Sample ID: VER_010DUP — Lab Sample ID: 500-239823-4

No Detections.

Client Sample ID: VER_070&D — Lab Sample ID: 500-239823-5

No Detections.

Client Sample ID: VER_022 — Lab Sample ID: 500-239823-6

No Detections.

Client Sample ID: VER_002 — Lab Sample ID: 500-239823-7

No Detections.

Client Sample ID: VER_002DUP — Lab Sample ID: 500-239823-8

No Detections.

Client Sample ID: VER_004 — Lab Sample ID: 500-239823-9

No Detections.

Client Sample ID: VER_021 — Lab Sample ID: 500-239823-10

No Detections.

Client Sample ID: VER_036 — Lab Sample ID: 500-239823-11

No Detections.

Client Sample ID: VER_037 — Lab Sample ID: 500-239823-12

No Detections.

Client Sample ID: VER_041 — Lab Sample ID: 500-239823-13

No Detections.

Client Sample ID: VER_003R — Lab Sample ID: 500-239823-14

No Detections.

Client Sample ID: VER_005 — Lab Sample ID: 500-239823-15

No Detections.

Client Sample ID: VER_008R — Lab Sample ID: 500-239823-16

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_016A — Lab Sample ID: 500-239823-17

No Detections.

Client Sample ID: VER_017 — Lab Sample ID: 500-239823-18

No Detections.

Client Sample ID: VER_020 — Lab Sample ID: 500-239823-19

No Detections.

Client Sample ID: VER_034 — Lab Sample ID: 500-239823-20

No Detections.

Client Sample ID: VER_038 — Lab Sample ID: 500-239823-21

No Detections.

Client Sample ID: VER_040 — Lab Sample ID: 500-239823-22

No Detections.

Client Sample ID: VER_042 — Lab Sample ID: 500-239823-23

No Detections.

Client Sample ID: VER_043 — Lab Sample ID: 500-239823-24

No Detections.

Client Sample ID: VER_EB-01 — Lab Sample ID: 500-239823-25

No Detections.

Client Sample ID: VER_EB-02 — Lab Sample ID: 500-239823-26

No Detections.

Client Sample ID: VER_035&D — Lab Sample ID: 500-239823-27

No Detections.

Client Sample ID: VER_035&D-DUP — Lab Sample ID: 500-239823-28

No Detections.

Client Sample ID: VER_FB/EB-1 — Lab Sample ID: 500-239823-29

No Detections.

Client Sample ID: VER_101& — Lab Sample ID: 500-239823-30

No Detections.

Client Sample ID: VER_103& — Lab Sample ID: 500-239823-33

No Detections.

Client Sample ID: VER_NED1 — Lab Sample ID: 500-239823-34

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_EB-1

Lab Sample ID: 500-239823-35

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_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-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-239823-1	VER_070#S	Water	09/19/23 13:45	09/20/23 11:18
500-239823-2	VER_070#SDUP	Water	09/19/23 13:50	09/20/23 11:18
500-239823-3	VER_010	Water	09/19/23 10:15	09/20/23 11:18
500-239823-4	VER_010DUP	Water	09/19/23 10:20	09/20/23 11:18
500-239823-5	VER_070&D	Water	09/19/23 15:35	09/20/23 11:18
500-239823-6	VER_022	Water	09/19/23 10:20	09/20/23 11:18
500-239823-7	VER_002	Water	09/20/23 14:11	09/21/23 11:13
500-239823-8	VER_002DUP	Water	09/20/23 14:20	09/21/23 11:13
500-239823-9	VER_004	Water	09/20/23 14:50	09/21/23 11:13
500-239823-10	VER_021	Water	09/20/23 10:20	09/21/23 11:13
500-239823-11	VER_036	Water	09/20/23 10:47	09/21/23 11:13
500-239823-12	VER_037	Water	09/20/23 12:31	09/21/23 11:13
500-239823-13	VER_041	Water	09/20/23 12:35	09/21/23 11:13
500-239823-14	VER_003R	Water	09/21/23 08:50	09/22/23 11:09
500-239823-15	VER_005	Water	09/21/23 10:51	09/22/23 11:09
500-239823-16	VER_008R	Water	09/21/23 09:30	09/22/23 11:09
500-239823-17	VER_016A	Water	09/21/23 16:10	09/22/23 11:09
500-239823-18	VER_017	Water	09/21/23 08:51	09/22/23 11:09
500-239823-19	VER_020	Water	09/21/23 13:07	09/22/23 11:09
500-239823-20	VER_034	Water	09/21/23 14:46	09/22/23 11:09
500-239823-21	VER_038	Water	09/21/23 15:45	09/22/23 11:09
500-239823-22	VER_040	Water	09/21/23 14:30	09/22/23 11:09
500-239823-23	VER_042	Water	09/21/23 13:35	09/22/23 11:09
500-239823-24	VER_043	Water	09/21/23 14:30	09/22/23 11:09
500-239823-25	VER_EB-01	Water	09/21/23 08:40	09/22/23 11:09
500-239823-26	VER_EB-02	Water	09/22/23 07:30	09/22/23 14:10
500-239823-27	VER_035&D	Water	09/22/23 09:35	09/22/23 14:10
500-239823-28	VER_035&D-DUP	Water	09/22/23 09:40	09/22/23 14:10
500-239823-29	VER_FB/EB-1	Water	09/25/23 18:00	09/26/23 11:13
500-239823-30	VER_101&	Water	09/25/23 16:12	09/26/23 11:13
500-239823-33	VER_103&	Water	09/26/23 10:43	09/27/23 11:31
500-239823-34	VER_NED1	Water	09/26/23 13:36	09/27/23 11:31
500-239823-35	VER_EB-1	Water	09/26/23 17:00	09/27/23 11:31

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_070#S

Date Collected: 09/19/23 13:45
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-1

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	0.0780	U	0.0677	0.0680	1.00	0.0975	pCi/L	09/22/23 10:09	10/17/23 09:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*30 - 110*	*09/22/23 10:09*	*10/17/23 09:40*	*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	0.431	U	0.361	0.363	1.00	0.564	pCi/L	09/22/23 10:21	10/11/23 11:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:22*	*1*
Y Carrier	*80.0*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:22*	*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	0.509	U	0.367	0.369	5.00	0.564	pCi/L		10/18/23 15:04	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_070#SDUP

Date Collected: 09/19/23 13:50
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-2

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	0.0987	U	0.0814	0.0819	1.00	0.117	pCi/L	09/22/23 10:09	10/17/23 09:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*09/22/23 10:09*	*10/17/23 09:40*	*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	**1.32**		0.520	0.534	1.00	0.679	pCi/L	09/22/23 10:21	10/11/23 11:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.6*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:22*	*1*
Y Carrier	*77.8*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:22*	*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**		0.526	0.540	5.00	0.679	pCi/L		10/18/23 15:04	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_010
Date Collected: 09/19/23 10:15
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-3
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	0.180		0.103	0.104	1.00	0.132	pCi/L	09/22/23 10:09	10/17/23 09:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*09/22/23 10:09*	*10/17/23 09:40*	*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	0.756		0.374	0.380	1.00	0.499	pCi/L	09/22/23 10:21	10/11/23 11:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:22*	*1*
Y Carrier	*81.1*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:22*	*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	0.936		0.388	0.394	5.00	0.499	pCi/L		10/18/23 15:04	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_010DUP

Date Collected: 09/19/23 10:20
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-4

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	0.199		0.103	0.105	1.00	0.124	pCi/L	09/22/23 10:09	10/17/23 09:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.1*		*30 - 110*	*09/22/23 10:09*	*10/17/23 09:40*	*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	-0.0180	U	0.324	0.324	1.00	0.615	pCi/L	09/22/23 10:21	10/11/23 11:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.1*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:22*	*1*
Y Carrier	*75.5*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:22*	*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	0.199	U	0.340	0.341	5.00	0.615	pCi/L		10/18/23 15:04	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_070&D

Date Collected: 09/19/23 15:35
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-5

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	0.554		0.170	0.177	1.00	0.134	pCi/L	09/22/23 10:09	10/17/23 09:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*30 - 110*	*09/22/23 10:09*	*10/17/23 09:40*	*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	1.54		0.601	0.617	1.00	0.767	pCi/L	09/22/23 10:21	10/11/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:24*	*1*
Y Carrier	*75.9*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:24*	*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	2.10		0.625	0.642	5.00	0.767	pCi/L		10/18/23 15:04	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_022

Date Collected: 09/19/23 10:20
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-6

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	0.443		0.137	0.143	1.00	0.124	pCi/L	09/22/23 10:09	10/17/23 09:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.2*		*30 - 110*	*09/22/23 10:09*	*10/17/23 09:45*	*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	3.91		0.704	0.791	1.00	0.595	pCi/L	09/22/23 10:21	10/11/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.2*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:24*	*1*
Y Carrier	*70.7*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:24*	*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	4.36		0.717	0.804	5.00	0.595	pCi/L		10/18/23 15:04	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_002

Date Collected: 09/20/23 14:11
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-7

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	0.274		0.146	0.148	1.00	0.177	pCi/L	09/25/23 11:17	10/17/23 14:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.2*		*30 - 110*	*09/25/23 11:17*	*10/17/23 14:02*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.16		0.575	0.585	1.00	0.777	pCi/L	09/25/23 11:21	10/12/23 11:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.2*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:08*	*1*
Y Carrier	*76.6*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:08*	*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	1.43		0.593	0.603	5.00	0.777	pCi/L		10/18/23 16:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_002DUP

Date Collected: 09/20/23 14:20
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-8

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	0.126	U	0.134	0.134	1.00	0.214	pCi/L	09/25/23 11:17	10/17/23 14:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*09/25/23 11:17*	*10/17/23 14:02*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.881**		0.549	0.555	1.00	0.806	pCi/L	09/25/23 11:21	10/12/23 11:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:08*	*1*
Y Carrier	*76.6*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:08*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.01**		0.565	0.571	5.00	0.806	pCi/L		10/18/23 16:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_004
Date Collected: 09/20/23 14:50
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-9
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	**0.748**		0.180	0.192	1.00	0.129	pCi/L	09/25/23 11:17	10/17/23 14:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*09/25/23 11:17*	*10/17/23 14:02*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.477	U	0.356	0.359	1.00	0.541	pCi/L	09/25/23 11:21	10/12/23 11:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:07*	*1*
Y Carrier	*80.0*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:07*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.23**		0.399	0.407	5.00	0.541	pCi/L		10/18/23 16:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_021
Date Collected: 09/20/23 10:20
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-10
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	0.144	U	0.154	0.154	1.00	0.247	pCi/L	09/25/23 11:17	10/17/23 14:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*09/25/23 11:17*	*10/17/23 14:02*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.42**		0.607	0.621	1.00	0.800	pCi/L	09/25/23 11:21	10/12/23 11:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:11*	*1*
Y Carrier	*75.9*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:11*	*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**		0.626	0.640	5.00	0.800	pCi/L		10/18/23 16:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_036
Date Collected: 09/20/23 10:47
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-11
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	0.286		0.128	0.130	1.00	0.155	pCi/L	09/25/23 11:17	10/17/23 14:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*09/25/23 11:17*	*10/17/23 14:04*	*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	1.27		0.444	0.459	1.00	0.527	pCi/L	09/25/23 11:21	10/12/23 11:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:11*	*1*
Y Carrier	*79.3*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:11*	*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		0.462	0.477	5.00	0.527	pCi/L		10/18/23 16:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_037
Date Collected: 09/20/23 12:31
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-12
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	0.727		0.217	0.227	1.00	0.206	pCi/L	09/25/23 11:17	10/17/23 14:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.4*		*30 - 110*	*09/25/23 11:17*	*10/17/23 14:05*	*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	1.37		0.572	0.586	1.00	0.730	pCi/L	09/25/23 11:21	10/12/23 11:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.4*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:11*	*1*
Y Carrier	*79.3*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:11*	*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	2.10		0.612	0.628	5.00	0.730	pCi/L		10/18/23 16:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_041

Date Collected: 09/20/23 12:35
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-13

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	0.468		0.188	0.193	1.00	0.204	pCi/L	09/25/23 11:17	10/17/23 14:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.6*		*30 - 110*	*09/25/23 11:17*	*10/17/23 14:05*	*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	3.22	G	0.886	0.935	1.00	1.01	pCi/L	09/25/23 11:21	10/12/23 11:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.6*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:11*	*1*
Y Carrier	*78.5*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:11*	*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	3.69		0.906	0.955	5.00	1.01	pCi/L		10/18/23 16:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_003R
Date Collected: 09/21/23 08:50
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-14
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	0.293		0.192	0.194	1.00	0.274	pCi/L	09/26/23 09:51	10/18/23 13:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.9*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:55*	*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	1.44		0.690	0.702	1.00	0.939	pCi/L	09/26/23 09:54	10/12/23 11:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.9*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:25*	*1*
Y Carrier	*79.3*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:25*	*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	1.74		0.716	0.728	5.00	0.939	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_005

Date Collected: 09/21/23 10:51
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-15

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	0.0651	U	0.0988	0.0990	1.00	0.169	pCi/L	09/26/23 09:51	10/18/23 13:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*69.4*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:54*	*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	0.635	U	0.510	0.513	1.00	0.794	pCi/L	09/26/23 09:54	10/12/23 11:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*69.4*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:25*	*1*
Y Carrier	*80.4*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:25*	*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	0.701	U	0.519	0.522	5.00	0.794	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_008R
Date Collected: 09/21/23 09:30
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-16
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	0.201		0.113	0.115	1.00	0.151	pCi/L	09/26/23 09:51	10/18/23 13:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.4*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:55*	*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	1.25		0.470	0.484	1.00	0.595	pCi/L	09/26/23 09:54	10/12/23 11:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.4*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:25*	*1*
Y Carrier	*83.4*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:25*	*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	1.46		0.483	0.497	5.00	0.595	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_016A
Date Collected: 09/21/23 16:10
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-17
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	0.700		0.213	0.222	1.00	0.206	pCi/L	09/26/23 09:51	10/18/23 13:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.0*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:55*	*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	0.890		0.589	0.595	1.00	0.876	pCi/L	09/26/23 09:54	10/12/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.0*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*1*
Y Carrier	*80.0*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*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	1.59		0.626	0.635	5.00	0.876	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_017
Date Collected: 09/21/23 08:51
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-18
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	0.0904	U	0.0862	0.0866	1.00	0.133	pCi/L	09/26/23 09:51	10/18/23 13:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.2*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:54*	*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	0.150	U	0.316	0.316	1.00	0.553	pCi/L	09/26/23 09:54	10/12/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.2*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*1*
Y Carrier	*83.4*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*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	0.240	U	0.328	0.328	5.00	0.553	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_020

Date Collected: 09/21/23 13:07
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-19

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	0.113	U	0.100	0.101	1.00	0.152	pCi/L	09/26/23 09:51	10/18/23 13:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.1*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:54*	*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	**0.691**		0.455	0.460	1.00	0.674	pCi/L	09/26/23 09:54	10/12/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.1*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*1*
Y Carrier	*77.4*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*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	**0.804**		0.466	0.471	5.00	0.674	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_034
Date Collected: 09/21/23 14:46
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-20
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	0.371		0.162	0.166	1.00	0.191	pCi/L	09/26/23 09:51	10/18/23 13:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.1*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:54*	*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	0.886		0.559	0.565	1.00	0.825	pCi/L	09/26/23 09:54	10/12/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.1*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*1*
Y Carrier	*78.9*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*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	1.26		0.582	0.589	5.00	0.825	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_038

Date Collected: 09/21/23 15:45
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-21

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	**0.531**		0.195	0.201	1.00	0.205	pCi/L	09/26/23 09:51	10/18/23 13:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.3*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:54*	*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	0.873	U	0.608	0.614	1.00	0.917	pCi/L	09/26/23 09:54	10/12/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.3*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*1*
Y Carrier	*79.6*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*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**		0.639	0.646	5.00	0.917	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_040
Date Collected: 09/21/23 14:30
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-22
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	0.157		0.0884	0.0896	1.00	0.115	pCi/L	09/26/23 09:51	10/18/23 13:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.6*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:54*	*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	1.58		0.471	0.493	1.00	0.555	pCi/L	09/26/23 09:54	10/12/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.6*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*1*
Y Carrier	*86.0*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*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	1.74		0.479	0.501	5.00	0.555	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_042

Date Collected: 09/21/23 13:35
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-23

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	0.166		0.0991	0.100	1.00	0.131	pCi/L	09/26/23 09:51	10/18/23 13:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:54*	*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	1.21		0.526	0.537	1.00	0.730	pCi/L	09/26/23 09:54	10/12/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*1*
Y Carrier	*78.9*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*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	1.37		0.535	0.546	5.00	0.730	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_043
Date Collected: 09/21/23 14:30
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-24
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	**0.378**		0.136	0.140	1.00	0.142	pCi/L	09/26/23 09:51	10/18/23 13:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.7*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:54*	*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	0.520	U	0.396	0.399	1.00	0.605	pCi/L	09/26/23 09:54	10/12/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.7*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*1*
Y Carrier	*81.9*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*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	**0.898**		0.419	0.423	5.00	0.605	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_EB-01
Date Collected: 09/21/23 08:40
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-25
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	0.0691	U	0.0921	0.0923	1.00	0.154	pCi/L	09/26/23 09:51	10/18/23 13:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.0*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:54*	*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	**0.678**		0.422	0.427	1.00	0.617	pCi/L	09/26/23 09:54	10/12/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.0*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*1*
Y Carrier	*83.4*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*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	**0.747**		0.432	0.437	5.00	0.617	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_EB-02
Date Collected: 09/22/23 07:30
Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-26
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	-0.0322	U	0.0614	0.0615	1.00	0.141	pCi/L	09/26/23 09:51	10/18/23 13:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*09/26/23 09:51*	*10/18/23 13:54*	*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	0.119	U	0.319	0.319	1.00	0.562	pCi/L	09/26/23 09:54	10/12/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*1*
Y Carrier	*87.1*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:24*	*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	0.119	U	0.325	0.325	5.00	0.562	pCi/L		10/20/23 16:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_035&D

Date Collected: 09/22/23 09:35
Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-27

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	0.0765	U	0.0926	0.0928	1.00	0.152	pCi/L	09/27/23 10:44	10/19/23 09:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.9*		*30 - 110*	*09/27/23 10:44*	*10/19/23 09:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.164	U	0.394	0.394	1.00	0.701	pCi/L	09/27/23 10:49	10/13/23 12:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.9*		*30 - 110*	*09/27/23 10:49*	*10/13/23 12:24*	*1*
Y Carrier	*70.3*		*30 - 110*	*09/27/23 10:49*	*10/13/23 12:24*	*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	0.240	U	0.405	0.405	5.00	0.701	pCi/L		10/20/23 17:51	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_035&D-DUP

Date Collected: 09/22/23 09:40
Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-28

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	0.255		0.149	0.150	1.00	0.195	pCi/L	09/27/23 10:44	10/19/23 09:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*09/27/23 10:44*	*10/19/23 09:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.385	U	0.402	0.403	1.00	0.649	pCi/L	09/27/23 10:49	10/13/23 12:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*09/27/23 10:49*	*10/13/23 12:24*	*1*
Y Carrier	*83.4*		*30 - 110*	*09/27/23 10:49*	*10/13/23 12:24*	*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	0.640	U	0.429	0.430	5.00	0.649	pCi/L		10/20/23 17:51	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_FB/EB-1

Date Collected: 09/25/23 18:00
Date Received: 09/26/23 11:13

Lab Sample ID: 500-239823-29

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	-0.0452	U	0.0780	0.0781	1.00	0.181	pCi/L	09/28/23 10:53	10/20/23 16:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*09/28/23 10:53*	*10/20/23 16:48*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.88**		0.626	0.680	1.00	0.611	pCi/L	09/28/23 11:02	10/17/23 11:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*09/28/23 11:02*	*10/17/23 11:44*	*1*
Y Carrier	*76.6*		*30 - 110*	*09/28/23 11:02*	*10/17/23 11:44*	*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	**2.88**		0.631	0.684	5.00	0.611	pCi/L		10/24/23 12:27	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_101&
Date Collected: 09/25/23 16:12
Date Received: 09/26/23 11:13

Lab Sample ID: 500-239823-30
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	0.371		0.190	0.193	1.00	0.237	pCi/L	09/28/23 10:53	10/20/23 16:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.8*		*30 - 110*	*09/28/23 10:53*	*10/20/23 16:49*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.72	G	0.857	0.893	1.00	1.03	pCi/L	09/28/23 11:02	10/17/23 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.8*		*30 - 110*	*09/28/23 11:02*	*10/17/23 11:45*	*1*
Y Carrier	*75.5*		*30 - 110*	*09/28/23 11:02*	*10/17/23 11:45*	*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	3.09		0.878	0.914	5.00	1.03	pCi/L		10/24/23 12:27	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_103&
Date Collected: 09/26/23 10:43
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-33
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	0.184	U	0.137	0.138	1.00	0.190	pCi/L	09/29/23 10:43	10/23/23 21:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*70.7*		*30 - 110*	*09/29/23 10:43*	*10/23/23 21:14*	*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	**1.04**	**G**	0.692	0.699	1.00	1.03	pCi/L	09/29/23 10:47	10/18/23 16:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*70.7*		*30 - 110*	*09/29/23 10:47*	*10/18/23 16:46*	*1*
Y Carrier	*81.1*		*30 - 110*	*09/29/23 10:47*	*10/18/23 16:46*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.23**		0.705	0.712	5.00	1.03	pCi/L		10/24/23 13:23	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_NED1
Date Collected: 09/26/23 13:36
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-34
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	**0.151**		0.108	0.109	1.00	0.151	pCi/L	10/03/23 09:55	10/25/23 07:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*10/03/23 09:55*	*10/25/23 07:10*	*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	0.550	U	0.410	0.413	1.00	0.614	pCi/L	10/03/23 10:14	10/18/23 16:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*10/03/23 10:14*	*10/18/23 16:24*	*1*
Y Carrier	*80.7*		*30 - 110*	*10/03/23 10:14*	*10/18/23 16:24*	*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	**0.701**		0.424	0.427	5.00	0.614	pCi/L		10/25/23 16:18	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_EB-1

Date Collected: 09/26/23 17:00
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-35

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	0.0174	U	0.0603	0.0603	1.00	0.120	pCi/L	09/29/23 10:43	10/23/23 21:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.8*		*30 - 110*	*09/29/23 10:43*	*10/23/23 21:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.269	U	0.298	0.299	1.00	0.485	pCi/L	09/29/23 10:47	10/18/23 16:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.8*		*30 - 110*	*09/29/23 10:47*	*10/18/23 16:47*	*1*
Y Carrier	*81.9*		*30 - 110*	*09/29/23 10:47*	*10/18/23 16:47*	*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	0.286	U	0.304	0.305	5.00	0.485	pCi/L		10/24/23 13:23	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Qualifiers

Rad

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Rad

Prep Batch: 629216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total/NA	Water	PrecSep-21	
500-239823-2	VER_070#SDUP	Total/NA	Water	PrecSep-21	
500-239823-3	VER_010	Total/NA	Water	PrecSep-21	
500-239823-4	VER_010DUP	Total/NA	Water	PrecSep-21	
500-239823-5	VER_070&D	Total/NA	Water	PrecSep-21	
500-239823-6	VER_022	Total/NA	Water	PrecSep-21	
MB 160-629216/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-629216/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-239823-6 MS	VER_022_MS	Total/NA	Water	PrecSep-21	
500-239823-6 MSD	VER_022_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 629220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total/NA	Water	PrecSep_0	
500-239823-2	VER_070#SDUP	Total/NA	Water	PrecSep_0	
500-239823-3	VER_010	Total/NA	Water	PrecSep_0	
500-239823-4	VER_010DUP	Total/NA	Water	PrecSep_0	
500-239823-5	VER_070&D	Total/NA	Water	PrecSep_0	
500-239823-6	VER_022	Total/NA	Water	PrecSep_0	
MB 160-629220/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-629220/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-239823-6 MS	VER_022_MS	Total/NA	Water	PrecSep_0	
500-239823-6 MSD	VER_022_MSD	Total/NA	Water	PrecSep_0	

Prep Batch: 629461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total/NA	Water	PrecSep-21	
500-239823-8	VER_002DUP	Total/NA	Water	PrecSep-21	
500-239823-9	VER_004	Total/NA	Water	PrecSep-21	
500-239823-10	VER_021	Total/NA	Water	PrecSep-21	
500-239823-11	VER_036	Total/NA	Water	PrecSep-21	
500-239823-12	VER_037	Total/NA	Water	PrecSep-21	
500-239823-13	VER_041	Total/NA	Water	PrecSep-21	
MB 160-629461/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-629461/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-239823-9 MS	VER_004_MS	Total/NA	Water	PrecSep-21	
500-239823-9 MSD	VER_004_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 629462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total/NA	Water	PrecSep_0	
500-239823-8	VER_002DUP	Total/NA	Water	PrecSep_0	
500-239823-9	VER_004	Total/NA	Water	PrecSep_0	
500-239823-10	VER_021	Total/NA	Water	PrecSep_0	
500-239823-11	VER_036	Total/NA	Water	PrecSep_0	
500-239823-12	VER_037	Total/NA	Water	PrecSep_0	
500-239823-13	VER_041	Total/NA	Water	PrecSep_0	
MB 160-629462/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-629462/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-239823-9 MS	VER_004_MS	Total/NA	Water	PrecSep_0	
500-239823-9 MSD	VER_004_MSD	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Rad

Prep Batch: 629533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-14	VER_003R	Total/NA	Water	PrecSep-21	
500-239823-15	VER_005	Total/NA	Water	PrecSep-21	
500-239823-16	VER_008R	Total/NA	Water	PrecSep-21	
500-239823-17	VER_016A	Total/NA	Water	PrecSep-21	
500-239823-18	VER_017	Total/NA	Water	PrecSep-21	
500-239823-19	VER_020	Total/NA	Water	PrecSep-21	
500-239823-20	VER_034	Total/NA	Water	PrecSep-21	
500-239823-21	VER_038	Total/NA	Water	PrecSep-21	
500-239823-22	VER_040	Total/NA	Water	PrecSep-21	
500-239823-23	VER_042	Total/NA	Water	PrecSep-21	
500-239823-24	VER_043	Total/NA	Water	PrecSep-21	
500-239823-25	VER_EB-01	Total/NA	Water	PrecSep-21	
500-239823-26	VER_EB-02	Total/NA	Water	PrecSep-21	
MB 160-629533/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-629533/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-239823-26 DU	VER_EB-02	Total/NA	Water	PrecSep-21	

Prep Batch: 629534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-14	VER_003R	Total/NA	Water	PrecSep_0	
500-239823-15	VER_005	Total/NA	Water	PrecSep_0	
500-239823-16	VER_008R	Total/NA	Water	PrecSep_0	
500-239823-17	VER_016A	Total/NA	Water	PrecSep_0	
500-239823-18	VER_017	Total/NA	Water	PrecSep_0	
500-239823-19	VER_020	Total/NA	Water	PrecSep_0	
500-239823-20	VER_034	Total/NA	Water	PrecSep_0	
500-239823-21	VER_038	Total/NA	Water	PrecSep_0	
500-239823-22	VER_040	Total/NA	Water	PrecSep_0	
500-239823-23	VER_042	Total/NA	Water	PrecSep_0	
500-239823-24	VER_043	Total/NA	Water	PrecSep_0	
500-239823-25	VER_EB-01	Total/NA	Water	PrecSep_0	
500-239823-26	VER_EB-02	Total/NA	Water	PrecSep_0	
MB 160-629534/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-629534/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-239823-26 DU	VER_EB-02	Total/NA	Water	PrecSep_0	

Prep Batch: 629712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-27	VER_035&D	Total/NA	Water	PrecSep-21	
500-239823-28	VER_035&D-DUP	Total/NA	Water	PrecSep-21	
MB 160-629712/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-629712/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 629714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-27	VER_035&D	Total/NA	Water	PrecSep_0	
500-239823-28	VER_035&D-DUP	Total/NA	Water	PrecSep_0	
MB 160-629714/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-629714/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Rad

Prep Batch: 629954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total/NA	Water	PrecSep-21	
500-239823-30	VER_101&	Total/NA	Water	PrecSep-21	
MB 160-629954/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-629954/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 629957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total/NA	Water	PrecSep_0	
500-239823-30	VER_101&	Total/NA	Water	PrecSep_0	
MB 160-629957/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-629957/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 630055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-33	VER_103&	Total/NA	Water	PrecSep-21	
500-239823-35	VER_EB-1	Total/NA	Water	PrecSep-21	
MB 160-630055/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-630055/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 630056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-33	VER_103&	Total/NA	Water	PrecSep_0	
500-239823-35	VER_EB-1	Total/NA	Water	PrecSep_0	
MB 160-630056/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-630056/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 630506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-34	VER_NED1	Total/NA	Water	PrecSep-21	
MB 160-630506/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-630506/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 630512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-34	VER_NED1	Total/NA	Water	PrecSep_0	
MB 160-630512/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-630512/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-629216/1-A
Matrix: Water
Analysis Batch: 632158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629216

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02288	U	0.0606	0.0606	1.00	0.114	pCi/L	09/22/23 10:09	10/17/23 09:37	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*30 - 110*	*09/22/23 10:09*	*10/17/23 09:37*	*1*

Lab Sample ID: LCS 160-629216/2-A
Matrix: Water
Analysis Batch: 632158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629216

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.55		1.12	1.00	0.114	pCi/L	93	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.5*		*30 - 110*

Lab Sample ID: 500-239823-6 MS
Matrix: Water
Analysis Batch: 632161

Client Sample ID: VER_022_MS
Prep Type: Total/NA
Prep Batch: 629216

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.443		11.4	10.69		1.14	1.00	0.137	pCi/L	90	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*93.4*		*30 - 110*

Lab Sample ID: 500-239823-6 MSD
Matrix: Water
Analysis Batch: 632159

Client Sample ID: VER_022_MSD
Prep Type: Total/NA
Prep Batch: 629216

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	0.443		11.4	10.78		1.15	1.00	0.132	pCi/L	91	60 - 140	0.04	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*93.2*		*30 - 110*

Lab Sample ID: MB 160-629461/1-A
Matrix: Water
Analysis Batch: 632159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629461

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01312	U	0.0626	0.0626	1.00	0.137	pCi/L	09/25/23 11:17	10/17/23 14:00	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

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

Lab Sample ID: MB 160-629461/1-A
Matrix: Water
Analysis Batch: 632159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629461

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110	09/25/23 11:17	10/17/23 14:00	1

Lab Sample ID: LCS 160-629461/2-A
Matrix: Water
Analysis Batch: 632159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629461

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.97		1.18	1.00	0.146	pCi/L	97	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.8		30 - 110

Lab Sample ID: 500-239823-9 MS
Matrix: Water
Analysis Batch: 632159

Client Sample ID: VER_004_MS
Prep Type: Total/NA
Prep Batch: 629461

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.748		11.3	10.95		1.17	1.00	0.145	pCi/L	90	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	94.1		30 - 110

Lab Sample ID: 500-239823-9 MSD
Matrix: Water
Analysis Batch: 632159

Client Sample ID: VER_004_MSD
Prep Type: Total/NA
Prep Batch: 629461

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	0.748		11.4	11.97		1.27	1.00	0.176	pCi/L	99	60 - 140	0.42	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	87.8		30 - 110

Lab Sample ID: MB 160-629533/1-A
Matrix: Water
Analysis Batch: 632342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629533

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01229	U	0.0492	0.0492	1.00	0.114	pCi/L	09/26/23 09:51	10/18/23 13:54	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110	09/26/23 09:51	10/18/23 13:54	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

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

Lab Sample ID: LCS 160-629533/2-A
Matrix: Water
Analysis Batch: 632342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629533

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.41		1.21	1.00	0.117	pCi/L	101	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.2*		*30 - 110*

Lab Sample ID: 500-239823-26 DU
Matrix: Water
Analysis Batch: 632344

Client Sample ID: VER_EB-02
Prep Type: Total/NA
Prep Batch: 629533

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	-0.0322	U		-0.01499	U	0.0590	1.00	0.131	pCi/L			0.14	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*87.3*		*30 - 110*

Lab Sample ID: MB 160-629712/1-A
Matrix: Water
Analysis Batch: 632572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629712

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04219	U	0.0741	0.0742	1.00	0.130	pCi/L	09/27/23 10:44	10/19/23 09:19	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.6*		*30 - 110*	*09/27/23 10:44*	*10/19/23 09:19*	*1*

Lab Sample ID: LCS 160-629712/2-A
Matrix: Water
Analysis Batch: 632572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629712

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.59		1.14	1.00	0.151	pCi/L	93	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.5*		*30 - 110*

Lab Sample ID: MB 160-629954/1-A
Matrix: Water
Analysis Batch: 632841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629954

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05286	U	0.112	0.112	1.00	0.200	pCi/L	09/28/23 10:53	10/20/23 16:48	1

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

Lab Sample ID: MB 160-629954/1-A
Matrix: Water
Analysis Batch: 632841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629954

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	77.0		30 - 110	09/28/23 10:53	10/20/23 16:48	1

Lab Sample ID: LCS 160-629954/2-A
Matrix: Water
Analysis Batch: 632841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629954

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.98		1.30	1.00	0.159	pCi/L	106	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.2		30 - 110

Lab Sample ID: MB 160-630055/1-A
Matrix: Water
Analysis Batch: 632935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630055

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.03219	U	0.0558	0.0558	1.00	0.133	pCi/L	09/29/23 10:43	10/23/23 18:16	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110	09/29/23 10:43	10/23/23 18:16	1

Lab Sample ID: LCS 160-630055/2-A
Matrix: Water
Analysis Batch: 632935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630055

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.03		1.17	1.00	0.143	pCi/L	97	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.4		30 - 110

Lab Sample ID: MB 160-630506/1-A
Matrix: Water
Analysis Batch: 633327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630506

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.09095	U	0.0716	0.0721	1.00	0.102	pCi/L	10/03/23 09:55	10/25/23 07:07	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		30 - 110	10/03/23 09:55	10/25/23 07:07	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

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

Lab Sample ID: LCS 160-630506/2-A
Matrix: Water
Analysis Batch: 633327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630506

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.47		1.10	1.00	0.104	pCi/L	92	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.3*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-629220/1-A
Matrix: Water
Analysis Batch: 631445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629220

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.3832	U	0.215	0.218	1.00	0.531	pCi/L	09/22/23 10:21	10/11/23 11:25	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:25*	*1*
Y Carrier	*84.1*		*30 - 110*	*09/22/23 10:21*	*10/11/23 11:25*	*1*

Lab Sample ID: LCS 160-629220/2-A
Matrix: Water
Analysis Batch: 631445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629220

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.81	5.347		0.869	1.00	0.439	pCi/L	68	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.5*		*30 - 110*
Y Carrier	*84.9*		*30 - 110*

Lab Sample ID: 500-239823-6 MS
Matrix: Water
Analysis Batch: 631441

Client Sample ID: VER_022_MS
Prep Type: Total/NA
Prep Batch: 629220

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	3.91		7.85	10.26		1.43	1.00	0.718	pCi/L	81	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*93.4*		*30 - 110*
Y Carrier	*72.9*		*30 - 110*

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

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

Lab Sample ID: 500-239823-6 MSD
Matrix: Water
Analysis Batch: 631441

Client Sample ID: VER_022_MSD
Prep Type: Total/NA
Prep Batch: 629220

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	3.91		7.84	8.989		1.30	1.00	0.574	pCi/L	65	60 - 140	0.47	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*93.2*		*30 - 110*
Y Carrier	*71.0*		*30 - 110*

Lab Sample ID: MB 160-629462/1-A
Matrix: Water
Analysis Batch: 631771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629462

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.09942	U	0.274	0.274	1.00	0.545	pCi/L	09/25/23 11:21	10/12/23 11:09	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:09*	*1*
Y Carrier	*80.0*		*30 - 110*	*09/25/23 11:21*	*10/12/23 11:09*	*1*

Lab Sample ID: LCS 160-629462/2-A
Matrix: Water
Analysis Batch: 631771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629462

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.80	8.294		1.19	1.00	0.471	pCi/L	106	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*87.8*		*30 - 110*
Y Carrier	*80.7*		*30 - 110*

Lab Sample ID: 500-239823-9 MS
Matrix: Water
Analysis Batch: 631771

Client Sample ID: VER_004_MS
Prep Type: Total/NA
Prep Batch: 629462

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.477	U	7.79	8.775		1.21	1.00	0.457	pCi/L	107	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*94.1*		*30 - 110*
Y Carrier	*78.1*		*30 - 110*

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

Lab Sample ID: 500-239823-9 MSD — **Client Sample ID: VER_004_MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 631771 — **Prep Batch: 629462**

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	0.477	U	7.82	8.343		1.20	1.00	0.522	pCi/L	101	60 - 140	0.18	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*87.8*		*30 - 110*
Y Carrier	*79.6*		*30 - 110*

Lab Sample ID: MB 160-629534/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 631642 — **Prep Batch: 629534**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.9975		0.467	0.476	1.00	0.657	pCi/L	09/26/23 09:54	10/12/23 11:14	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:14*	*1*
Y Carrier	*84.1*		*30 - 110*	*09/26/23 09:54*	*10/12/23 11:14*	*1*

Lab Sample ID: LCS 160-629534/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 631642 — **Prep Batch: 629534**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.80	9.156		1.26	1.00	0.508	pCi/L	117	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.2*		*30 - 110*
Y Carrier	*84.1*		*30 - 110*

Lab Sample ID: 500-239823-26 DU — **Client Sample ID: VER_EB-02**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 631770 — **Prep Batch: 629534**

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.119	U		-0.1151	U	0.268	1.00	0.546	pCi/L			0.40	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*87.3*		*30 - 110*
Y Carrier	*83.4*		*30 - 110*

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

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

Lab Sample ID: MB 160-629714/1-A
Matrix: Water
Analysis Batch: 631973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629714

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.3580	U	0.134	0.138	1.00	0.421	pCi/L	09/27/23 10:49	10/13/23 12:18	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.6*		*30 - 110*	*09/27/23 10:49*	*10/13/23 12:18*	*1*
Y Carrier	*82.6*		*30 - 110*	*09/27/23 10:49*	*10/13/23 12:18*	*1*

Lab Sample ID: LCS 160-629714/2-A
Matrix: Water
Analysis Batch: 631973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629714

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.80	7.923		1.13	1.00	0.485	pCi/L	102	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.5*		*30 - 110*
Y Carrier	*83.7*		*30 - 110*

Lab Sample ID: MB 160-629957/1-A
Matrix: Water
Analysis Batch: 632161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629957

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2359	U	0.521	0.522	1.00	0.928	pCi/L	09/28/23 11:02	10/17/23 16:53	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.0*		*30 - 110*	*09/28/23 11:02*	*10/17/23 16:53*	*1*
Y Carrier	*78.1*		*30 - 110*	*09/28/23 11:02*	*10/17/23 16:53*	*1*

Lab Sample ID: LCS 160-629957/2-A
Matrix: Water
Analysis Batch: 632161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629957

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.79	7.079		1.35	1.00	0.936	pCi/L	91	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.2*		*30 - 110*
Y Carrier	*82.2*		*30 - 110*

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

Lab Sample ID: MB 160-630056/1-A
Matrix: Water
Analysis Batch: 632344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630056

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1075	U	0.237	0.238	1.00	0.423	pCi/L	09/29/23 10:47	10/18/23 16:34	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.4*		*30 - 110*	*09/29/23 10:47*	*10/18/23 16:34*	*1*
Y Carrier	*83.0*		*30 - 110*	*09/29/23 10:47*	*10/18/23 16:34*	*1*

Lab Sample ID: LCS 160-630056/2-A
Matrix: Water
Analysis Batch: 632344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630056

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.79	7.477		1.11	1.00	0.527	pCi/L	96	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.4*		*30 - 110*
Y Carrier	*81.9*		*30 - 110*

Lab Sample ID: MB 160-630512/1-A
Matrix: Water
Analysis Batch: 632342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630512

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4080	U	0.305	0.307	1.00	0.459	pCi/L	10/03/23 10:14	10/18/23 16:23	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.3*		*30 - 110*	*10/03/23 10:14*	*10/18/23 16:23*	*1*
Y Carrier	*82.6*		*30 - 110*	*10/03/23 10:14*	*10/18/23 16:23*	*1*

Lab Sample ID: LCS 160-630512/2-A
Matrix: Water
Analysis Batch: 632574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630512

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.79	9.297		2.82	1.00	3.11	pCi/L	119	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.3*		*30 - 110*
Y Carrier	*85.2*		*30 - 110*

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_070#S
Date Collected: 09/19/23 13:45
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629216	KAC	EET SL	09/22/23 10:09
Total/NA	Analysis	903.0		1	632158	FLC	EET SL	10/17/23 09:40
Total/NA	Prep	PrecSep_0			629220	KAC	EET SL	09/22/23 10:21
Total/NA	Analysis	904.0		1	631441	FLC	EET SL	10/11/23 11:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	632539	SCB	EET SL	10/18/23 15:04

Client Sample ID: VER_070#SDUP
Date Collected: 09/19/23 13:50
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629216	KAC	EET SL	09/22/23 10:09
Total/NA	Analysis	903.0		1	632158	FLC	EET SL	10/17/23 09:40
Total/NA	Prep	PrecSep_0			629220	KAC	EET SL	09/22/23 10:21
Total/NA	Analysis	904.0		1	631441	FLC	EET SL	10/11/23 11:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	632539	SCB	EET SL	10/18/23 15:04

Client Sample ID: VER_010
Date Collected: 09/19/23 10:15
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629216	KAC	EET SL	09/22/23 10:09
Total/NA	Analysis	903.0		1	632158	FLC	EET SL	10/17/23 09:40
Total/NA	Prep	PrecSep_0			629220	KAC	EET SL	09/22/23 10:21
Total/NA	Analysis	904.0		1	631441	FLC	EET SL	10/11/23 11:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	632539	SCB	EET SL	10/18/23 15:04

Client Sample ID: VER_010DUP
Date Collected: 09/19/23 10:20
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629216	KAC	EET SL	09/22/23 10:09
Total/NA	Analysis	903.0		1	632158	FLC	EET SL	10/17/23 09:40
Total/NA	Prep	PrecSep_0			629220	KAC	EET SL	09/22/23 10:21
Total/NA	Analysis	904.0		1	631441	FLC	EET SL	10/11/23 11:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	632539	SCB	EET SL	10/18/23 15:04

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_070&D
Date Collected: 09/19/23 15:35
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629216	KAC	EET SL	09/22/23 10:09
Total/NA	Analysis	903.0		1	632158	FLC	EET SL	10/17/23 09:40
Total/NA	Prep	PrecSep_0			629220	KAC	EET SL	09/22/23 10:21
Total/NA	Analysis	904.0		1	631441	FLC	EET SL	10/11/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632539	SCB	EET SL	10/18/23 15:04

Client Sample ID: VER_022
Date Collected: 09/19/23 10:20
Date Received: 09/20/23 11:18

Lab Sample ID: 500-239823-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629216	KAC	EET SL	09/22/23 10:09
Total/NA	Analysis	903.0		1	632159	FLC	EET SL	10/17/23 09:45
Total/NA	Prep	PrecSep_0			629220	KAC	EET SL	09/22/23 10:21
Total/NA	Analysis	904.0		1	631441	FLC	EET SL	10/11/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632539	SCB	EET SL	10/18/23 15:04

Client Sample ID: VER_002
Date Collected: 09/20/23 14:11
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632159	FLC	EET SL	10/17/23 14:02
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631771	FLC	EET SL	10/12/23 11:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Client Sample ID: VER_002DUP
Date Collected: 09/20/23 14:20
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632159	FLC	EET SL	10/17/23 14:02
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631771	FLC	EET SL	10/12/23 11:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_004
Date Collected: 09/20/23 14:50
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632159	FLC	EET SL	10/17/23 14:02
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631771	FLC	EET SL	10/12/23 11:07
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Client Sample ID: VER_021
Date Collected: 09/20/23 10:20
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632159	FLC	EET SL	10/17/23 14:02
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631642	FLC	EET SL	10/12/23 11:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Client Sample ID: VER_036
Date Collected: 09/20/23 10:47
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632161	FLC	EET SL	10/17/23 14:04
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631642	FLC	EET SL	10/12/23 11:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Client Sample ID: VER_037
Date Collected: 09/20/23 12:31
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632161	FLC	EET SL	10/17/23 14:05
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631642	FLC	EET SL	10/12/23 11:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_041
Date Collected: 09/20/23 12:35
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632161	FLC	EET SL	10/17/23 14:05
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631642	FLC	EET SL	10/12/23 11:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Client Sample ID: VER_003R
Date Collected: 09/21/23 08:50
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632342	FLC	EET SL	10/18/23 13:55
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_005
Date Collected: 09/21/23 10:51
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_008R
Date Collected: 09/21/23 09:30
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:55
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_016A
Date Collected: 09/21/23 16:10
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:55
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_017
Date Collected: 09/21/23 08:51
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_020
Date Collected: 09/21/23 13:07
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_034
Date Collected: 09/21/23 14:46
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_038
Date Collected: 09/21/23 15:45
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_040
Date Collected: 09/21/23 14:30
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_042
Date Collected: 09/21/23 13:35
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_043
Date Collected: 09/21/23 14:30
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631770	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_EB-01
Date Collected: 09/21/23 08:40
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631770	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_EB-02
Date Collected: 09/22/23 07:30
Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631770	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_035&D
Date Collected: 09/22/23 09:35
Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629712	KAC	EET SL	09/27/23 10:44
Total/NA	Analysis	903.0		1	632572	FLC	EET SL	10/19/23 09:18
Total/NA	Prep	PrecSep_0			629714	KAC	EET SL	09/27/23 10:49
Total/NA	Analysis	904.0		1	631973	FLC	EET SL	10/13/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632908	EMH	EET SL	10/20/23 17:51

Client Sample ID: VER_035&D-DUP
Date Collected: 09/22/23 09:40
Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629712	KAC	EET SL	09/27/23 10:44
Total/NA	Analysis	903.0		1	632572	FLC	EET SL	10/19/23 09:18
Total/NA	Prep	PrecSep_0			629714	KAC	EET SL	09/27/23 10:49
Total/NA	Analysis	904.0		1	631973	FLC	EET SL	10/13/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632908	EMH	EET SL	10/20/23 17:51

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_FB/EB-1
Date Collected: 09/25/23 18:00
Date Received: 09/26/23 11:13

Lab Sample ID: 500-239823-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629954	KAC	EET SL	09/28/23 10:53
Total/NA	Analysis	903.0		1	632841	FLC	EET SL	10/20/23 16:48
Total/NA	Prep	PrecSep_0			629957	KAC	EET SL	09/28/23 11:02
Total/NA	Analysis	904.0		1	632158	FLC	EET SL	10/17/23 11:44
Total/NA	Analysis	Ra226_Ra228 Pos		1	633287	EMH	EET SL	10/24/23 12:27

Client Sample ID: VER_101&
Date Collected: 09/25/23 16:12
Date Received: 09/26/23 11:13

Lab Sample ID: 500-239823-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629954	KAC	EET SL	09/28/23 10:53
Total/NA	Analysis	903.0		1	632841	FLC	EET SL	10/20/23 16:49
Total/NA	Prep	PrecSep_0			629957	KAC	EET SL	09/28/23 11:02
Total/NA	Analysis	904.0		1	632158	FLC	EET SL	10/17/23 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	633287	EMH	EET SL	10/24/23 12:27

Client Sample ID: VER_103&
Date Collected: 09/26/23 10:43
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			630055	KAC	EET SL	09/29/23 10:43
Total/NA	Analysis	903.0		1	632929	FLC	EET SL	10/23/23 21:14
Total/NA	Prep	PrecSep_0			630056	KAC	EET SL	09/29/23 10:47
Total/NA	Analysis	904.0		1	632341	FLC	EET SL	10/18/23 16:46
Total/NA	Analysis	Ra226_Ra228 Pos		1	633295	EMH	EET SL	10/24/23 13:23

Client Sample ID: VER_NED1
Date Collected: 09/26/23 13:36
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			630506	KAC	EET SL	10/03/23 09:55
Total/NA	Analysis	903.0		1	633327	FLC	EET SL	10/25/23 07:10
Total/NA	Prep	PrecSep_0			630512	KAC	EET SL	10/03/23 10:14
Total/NA	Analysis	904.0		1	632342	FLC	EET SL	10/18/23 16:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	633461	EMH	EET SL	10/25/23 16:18

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_EB-1
Date Collected: 09/26/23 17:00
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			630055	KAC	EET SL	09/29/23 10:43
Total/NA	Analysis	903.0		1	632929	FLC	EET SL	10/23/23 21:18
Total/NA	Prep	PrecSep_0			630056	KAC	EET SL	09/29/23 10:47
Total/NA	Analysis	904.0		1	632341	FLC	EET SL	10/18/23 16:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	633295	EMH	EET SL	10/24/23 13:23

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-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_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	11-30-23

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

500-239823 COC

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-239823

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_070#S			9/19/23	1345		14	2	8	4								X		X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

1

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Tabares

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 09/19/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3.072.6			
48 Q+			

CHAIN-OF-CUSTODY / Analytical Request Document

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500-239823

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_070#SDUP			9/19/2023	1350		15	2	9	4								X		X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0							
		9/20/23	1118		9/20/23	1118	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Tabares

SIGNATURE of SAMPLER: Alanna Tabares DATE Signed (MM/DD/YY): 09/19/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-239823

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Liste,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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 #	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1			9/19/23	1535		14		4									X		X		SHORT HOLDS-NO2
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					

5

HNO3 9/11/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0							
		9/20/23	1118		9/20/23	0916	
					9/20/23	1118	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Tabares

SIGNATURE of SAMPLER: Alanna Tabares

DATE Signed (MM/DD/YY): 09/19/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3.1→2.7			

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_022_MS/MSD	WT	G	9/19/2023	1020													X		X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	Matt Burley (Rumbol)	9/20/23			9/20/23	09:16	
		9/20/23	1118		9/20/23	1118	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt Burley

SIGNATURE of SAMPLER: Matt Burley

DATE Signed (MM/DD/YY): 9/12/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.9→2.5			

500-239823 COC

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-239823

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_002			09/20/2023	1411		1	2	8	4							X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0					9/21/23	0923	
		9/21/23	1113		9/21/23	1113	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Hanna Tabor

SIGNATURE of SAMPLER: Hanna Tabor DATE Signed (MM/DD/YY): 09/20/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.4-2.4	4	8	9

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp/A3	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 3030 Warrenville Rd, Ste 418	Copy To: Jason Stuckey	Company Name: Vistra Corp
Lisle,IL 60532		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: 50021987	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_002DUP			9/20/2023	1420		14	2	8	4							X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	M. J. Ellis	9/21/23	1117	M. J. Ellis	9/21/23	0923	
				Thur Todd	9/21/23	1113	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Tabaret

SIGNATURE of SAMPLER: Alanna Tabaret

DATE Signed (MM/DD/YY): 09/20/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.8-2.4			

48 hr

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_004_MS/MSD	WT	G	9/20/23	14:50		12	X	X	X							X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	S.J. Elkins			S. J. Elkins	9/21/23	0923	
	S.J. Elkins	9/21/23	1113	Steven Kilcrease	9/21/23	1113	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Steven Kilcrease

SIGNATURE of SAMPLER: Steven Kilcrease

DATE Signed (MM/DD/YY): 09/20/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.6 - 2.2			

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-239823

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_021			9/20/2023	1020		14	2	8	4							X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

10

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	N.J. Ellar	9/21/23	1117	[signature]	9/21/23	0923	
				[signature]	9/21/23	1113	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alauna Tabares

SIGNATURE of SAMPLER: Alauna Tabares DATE Signed (MM/DD/YY): 09/20/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.8-2.4			

480T

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-239823

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_036	WT	G	9/20/23	1047		14	X	X	X							X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	N. J. Ellison	9/21/23	1117	N. J. Ellison Alan Foote	9/20/23 9/21/23	0923 1113	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Tabor

SIGNATURE of SAMPLER: Alanna Tabor

DATE Signed (MM/DD/YY): 09/20/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1.1 → 0.8			

48 QT

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:	Section C Invoice Information:
Company:	Vistra Corp/A3	Report To: Brian Voelker	Attention: Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To: Jason Stuckey	Company Name: Vistra Corp
	Lisle,IL 60532		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: 50021987	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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000									Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_037	WT	G	9/20/23	1231		14	X	X	X							X			X										SHORT HOLDS-NO2
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														
13																														
14																														
15																														
16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0				[signature]	9/21/23	0923	
	[signature]	9/21/23	1113	[signature]	9/21/23	1113	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Zbaro

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 09/20/2023

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

1.1-0.8
48Q+

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp/A3	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 3030 Warrenville Rd, Ste 418	Copy To: Jason Stuckey	Company Name: Vistra Corp
Lisle,IL 60532		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: 50021987	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_041	WT	G	9/20/23	12:35		14	X	X	X							X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

13

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0					9/21/23	0923	
	B. J. Ellis	9/21/23			9/21/23	1113	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Steven Kilkelt

SIGNATURE of SAMPLER: Steven Kilkelt

DATE Signed (MM/DD/YY): 09/20/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1.1 - 0.8			

4805

500-239823

500-239823 COC

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_003R	WT	G	9/21/23	8:50		14	X	XX								X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

14

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	D.J. Ellias	9/22/23	1109	D.J. Ellias	9/22/23	0914	
					9/22/23	1109	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Steven Fletcher

SIGNATURE of SAMPLER: Steven Fletcher

DATE Signed (MM/DD/YY): 09/21/23

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

Temp = 1.9 → 1.6, 2.8 → 2.4
1.8 → 1.8, 2.2 → 1.8
1.9 → 1.6

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-23982 3

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_005				9/21/23	1051		14	2	8	4					X			X			SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0					9/21/23	0914	
	N. J. Ellen	9/22/23	1109		9/22/23	1109	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Taborn

SIGNATURE of SAMPLER: Alanna Taborn

DATE Signed (MM/DD/YY): 09/21/23

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

Temp: 2.8-2.4

500-239823

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/A3	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 3030 Warrenville Rd, Ste 418	Copy To: Jason Stuckey	Company Name: Vistra Corp
Lisle,IL 60532		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: 50021987	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
16																						
1	VER_008R	WT	G	9/21/23	9:30		14	X	X	X							X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	S. J. Elder	9/22/23	1109	S. J. Elder	9/22/23	0914	
					9/22/23	1109	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Steven Kilcrease

SIGNATURE of SAMPLER: Steven Kilcrease

DATE Signed (MM/DD/YY): 09/21/23

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

Temp = 1.9 → 1.6

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_017			9/21/23	0851		14	2	8	4							X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

18

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0					9/22/23	0914	
		9/22/23	1109		9/22/23	1109	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Alana Igbaras
SIGNATURE of SAMPLER: Alana Igbaras
DATE Signed (MM/DD/YY): 09/21/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-239823

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Liste,IL 60532			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:	50021987	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
19 1	VER_020			9/21/23	1307		1	2	8	4							X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	M.J. Ellis	9/21/23	1109	M.J. Ellis	9/21/23	0919	
				Alanna Tabares	9/21/23	1109	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Tabares

SIGNATURE of SAMPLER: Alanna Tabares DATE Signed (MM/DD/YY): 09/21/23

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

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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

ITEM #	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1			9/21/23	1446		14	2	8	4							X			X		SHORT HOLDS-NO2
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					

20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0							
	M. J. Ellias	9/22/23	1109	M. J. Ellias	9/22/23	0914	
					9/22/23	1109	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Fabro

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 09/21/23

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

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_038	WT	G	9/21/23	15:45		14	X	X	X						X			X		SHORT HOLDS-NO2
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0							
	S.J. Ellis	9/22/23	1109	[signature]	9/22/23	0914	
				[signature]	9/22/23	1109	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Steven Kilcoyne

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 09/21/23

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

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Liste,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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 #	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1			9/21/23	1436												X			X		SHORT HOLDS-NO2
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	M. J. Ellison	9/22/23	1109	M. J. Ellison	9/22/23	0914	
					9/22/23	1109	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt Barlen

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 9/21/23

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

500-234823

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/A3
Address:	3030 Warrenville Rd, Ste 418
	Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_042	WT	G	9/21/23	13:35		14	X	K	K							X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

23

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0							
	S.J. Elkin	9/22/23	1109		9/22/23	0914	
					9/22/23	1109	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Steven Kilcrease

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 09/21/23

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

Temp = 1.9 - 1.6

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp/A3	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 3030 Warrenville Rd, Ste 418	Copy To: Jason Stuckey	Company Name: Vistra Corp
Lisle,IL 60532		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: 50021987	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_043	WT	G	9/21/23	14:30		14	X	X	X							X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0							
		9/22/23	1109		9/22/23	0814	
					9/22/23	1109	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Steven Fiedler

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 09/21/23

Temp in °C: 2.8 - 2.4 | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

500-239823

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
25 1	~~VER-037~~EB 20-01			9/21/23	0840												X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	M.J. Ellison	9/22/23			9/22/23	0911	
	M.J. Ellison	9/22/23	1109		9/22/23	1109	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt Bortney

SIGNATURE of SAMPLER: M. Ellison

DATE Signed (MM/DD/YY): 9/21/23

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

500-239823 COC

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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

Requested Analysis Filtered (Y/N)

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000										Residual Chlorine (Y/N)	Project No./ Lab I.D.
26 1	WT ~~VER-005EB~~ EB-02			09/22/23	0730		14	2	8	4							X			X											SHORT HOLDS-NO2
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															
13																															
14																															
15																															
16																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	[signature] / Ramboll	9/22/23	2:10	[signature] EETA	9/22/23	1410	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Tabares

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 09/22/23

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

5.0-4.6 48Q7

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-239823

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	Profile #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000									Residual Chlorine (Y/N)	Project No./ Lab I.D.
28 1	~~VER-035&DEB~~ VER-0358DUP			09/22/23	0910		14	2	8	4									X	X										SHORT HOLDS-NO2
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														
13																														
14																														
15																														
16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	[signature] / Ramboll	9/22/23	14:10	[signature] EETA	9/22/23	1410	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [handwritten name]

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 09/22/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3.7 - 3.3			

48 OH

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-2398-23

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_101&	GW	G	09/25/23	1612		14	2	8	4							X			X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

LCH 9/26/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	N.J. Ellis	9/26/23	0815	N.J. Ellis	9/26/23	0900	
	N.J. Ellis	9/26/23	1113	[illegible]	9/26/23	1113	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lauren Anderson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 09/26/23

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

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
33 1	VER_103&			9/26/23	10:43		14	2	8	4						X			X			SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10					LRA 9/26/23																	
11																						
12																						
13																						
14																						
15																						
16																						

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	Lawren Ramboll	9/26/23	0900	Ramboll	9/26/23	0900	
	Ramboll	9/27/23	0915		9/27/23	0915	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lawren Anderson

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 9/26/23

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

N.J. Ellan 9/27/23 1131 9/21/23 1131

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_010	WT	G	9/19/23	10:35		14											X	X	X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	M. J. Ellian	9/20/23	1116	M. J. Ellian	9/20/23	0916	
					9/20/23	1118	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
0.7	0.1	4	8

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000									Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_010DUP			9/19/23	10:20		14	X	X	X								X	X	X										SHORT HOLDS-NO2
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														
13																														
14																														
15																														
16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0				M. J. Ellis	9/20/23	0816	
	M. J. Ellis	9/20/23	1118	[signature]	9/20/23	1118	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt Barley

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 9/19/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
0.7 → 0.4			

48 QT

11/16/23 (Rev. 1)

500-234823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418
	Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911 Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_016A	WT	G	9/21/23	1616													X	X	X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
HEN-23Q3 Rev 0	[signature]	9/22/23		[signature]	9/22/23	0814
	[signature]	9/22/23	1109	[signature]	9/22/23	1184

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt Barley

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/21/23

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

Temp= 2.2→1.8

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000										Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_035&D			9/22/23	0935		14	2	8	4									X	X											SHORT HOLDS-NO2
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															
13																															
14																															
15																															
16																															

27

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	[signature] / Ramboll	9/22/23	14:10	[signature] EETA	9/22/23	1410	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alanna Delgado

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 09/22/23

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

3.7-3.3 48QT

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Ramboll	Report To: Brian Voelker	Attention: Jason Stuckey
Address:	Copy To: Jason Stuckey	Company Name: Vistra Corp
		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: 50021987	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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 #	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-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	~~LCA VER-835&DEB~~ EB-1	DI	G	9/26/23	1700		14	2	8	4						X	X	X	X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

35

LCA 9/26/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	Ramboll	9/26/23	0900		9/26/23	0900	
		9/27/23	0915		9/27/23	0915	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lawren Anderson

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 9/26/23

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

9/27/23 1131 9/22/23 1131

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	Vistra Corp/A3
Address:	3030 Warrenville Rd, Ste 418, Lisle,IL 60532
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911 Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.:	
Project Name:	
Project Number:	50021987

500-239823 COC

Section C Invoice Information:

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

REGULATORY AGENCY: NPDES, GROUND WATER, DRINKING WATER, UST, RCRA, OTHER

Site Location STATE: IL

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
29 1	VER_FB / EB-1	DI	G	9/25/23	1800		14	2	8	4							X	X	X	X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10					WA 9/26/23																	
11																						
12																						
13																						
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	[signature]	9/26/23	0815	[signature]	9/26/23	0900	
	[signature]	9/26/23	1117	[signature]	9/26/23	1113	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lauren Anderson

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9/26/23

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

Temp = 5.9 → 5.3

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp/A3	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	3030 Warrenville Rd, Ste 418	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Lisle,IL 60532			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:	50021987	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

34

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER_NED1	GW	G	9/26/23	1330		14	2	8	4								X		X		SHORT HOLDS-NO2
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

Requested Analysis Filtered (Y/N)

LCA 9/26/23

9/26/23 CSW

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	[signature] / Ramboll	9/26/23	0900	[signature] Ramboll	9/26/23	0900	
	[signature] Ramboll	9/27/23		N. J. Ellison	9/27/23	0915	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lauren Anderson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 9/26/23

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

N. J. Ellison 9/27/23 1131 [signature] Scott 9/27/23 1131

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:	Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	COC No: 500-179258.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Carlene.McCutcheon@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239823-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/19/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q3	Project #: 50022203			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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 X	904.0/PrecSep_0 X	Ra226_228GFPC_P/ X	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
VER_070#S (500-239823-1)	9/19/23	13:45 Central		Water			X	X	X	2	
VER_070#SDUP (500-239823-2)	9/19/23	13:50 Central		Water			X	X	X	2	
VER_010 (500-239823-3)	9/19/23	10:15 Central		Water			X	X	X	2	
VER_010DUP (500-239823-4)	9/19/23	10:20 Central		Water			X	X	X	2	
VER_070&D (500-239823-5)	9/19/23	15:35 Central		Water			X	X	X	2	
VER-022 (500-239823-6)	9/19/23	10:20 Central		Water			X	X	X	2	
VER-022_MS (500-239823-6MS)	9/19/23	10:20 Central	MS	Water			X	X	X	2	
VER-022_MSD (500-239823-6MSD)	9/19/23	10:20 Central	MSD	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: Shri Shah Fedex	Date/Time: 9/20/23 1520	Company	Received by: M. Pinette	Fedex	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time: SEP 21 2023 0850	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:

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:	Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	COC No: 500-179304.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Carlene.McCutcheon@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239823-1
Address: 13715 Rider Trail North,	Due Date Requested: 10/19/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q3	Project #: 50022203			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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 W	904.0/PrecSep_0 W	Ra226_228GFPC_P/ W	Total Number of containers	Special Instructions/Note:
Preservation Code:											
VER_002 (500-239823-7)	9/20/23	14:11 Central		Water			X	X	X	2	
VER_002DUP (500-239823-8)	9/20/23	14:20 Central		Water			X	X	X	2	
VER_004 (500-239823-9)	9/20/23	14:50 Central		Water			X	X	X	2	
VER_004_MS (500-239823-9MS)	9/20/23	14:50 Central	MS	Water			X	X	X	2	
VER_004_MSD (500-239823-9MSD)	9/20/23	14:50 Central	MSD	Water			X	X	X	2	
VER_021 (500-239823-10)	9/20/23	10:20 Central		Water			X	X	X	2	
VER_036 (500-239823-11)	9/20/23	10:47 Central		Water			X	X	X	2	
VER_037 (500-239823-12)	9/20/23	12:31 Central		Water			X	X	X	2	
VER_041 (500-239823-13)	9/20/23	12:35 Central		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
	Relinquished by: FED EX	Date/Time: 9/21/23 1430	Company	Received by: FED EX	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: Micha Koninger	Date/Time: SEP 2 2 2023	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:

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:	Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	COC No: 500-179356.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Carlene.McCutcheon@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239823-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/19/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045	PO #:			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:			
Email:	Project #: 50022203			
Project Name: VER-23Q3	SSOW#:			
Site:				

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Analysis Requested

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 W	904.0/PrecSep_0 W	Ra226_228GFPC_P/ W	903.0/PrecSep_21 X	904.0/PrecSep_0 X	Ra226_228GFPC_P/ X	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
VER_003R (500-239823-14)	9/21/23	08:50 Central		Water			X	X	X				2	
VER_005 (500-239823-15)	9/21/23	10:51 Central		Water			X	X	X				2	
VER_008R (500-239823-16)	9/21/23	09:30 Central		Water			X	X	X				2	
VER_016A (500-239823-17)	9/21/23	16:10 Central		Water						X	X	X	2	
VER_017 (500-239823-18)	9/21/23	08:51 Central		Water			X	X	X				2	
VER_020 (500-239823-19)	9/21/23	13:07 Central		Water			X	X	X				2	
VER_034 (500-239823-20)	9/21/23	14:46 Central		Water			X	X	X				2	
VER_038 (500-239823-21)	9/21/23	15:45 Central		Water			X	X	X				2	
VER_040 (500-239823-22)	9/21/23	14:30 Central		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] FED EX	9/22/23 1530		FED EX		
2	Relinquished by: FED EX	Date/Time:	Company	Received by: M. Pinette	Date/Time: SEP 25 2023 0920	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:

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
VERMILION POWER PLANT, NEW EAST ASH POND (NEAP)
VER-845-912

11/16/23 (Rev. 1)

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:	Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	COC No: 500-179356.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Carlene.McCutcheon@et.eurofinsus.com	State of Origin: Illinois	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239823-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/19/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045	PO #:			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:			
Email:	Project #: 50022203			
Project Name: VER-23Q3	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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 W	904.0/PrecSep_0 W	Ra226_228GFPC_P/ W	903.0/PrecSep_21 X	904.0/PrecSep_0 X	Ra226_228GFPC_P/ X	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
VER_042 (500-239823-23)	9/21/23	13:35 Central		Water			X	X	X				2	
VER_043 (500-239823-24)	9/21/23	14:30 Central		Water			X	X	X				2	
VER_EB-01 (500-239823-25)	9/21/23	08:40 Central		Water			X	X	X				2	
VER_EB-01 (500-239823-26)	9/22/23	07:30 Central		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
	Relinquished by: FED EX	Date/Time: 9/22/23 1530	Company	Received by: FED EX	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: SEP 25 2023 0920	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:

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:	Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	COC No: 500-179379.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Carlene.McCutcheon@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239823-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/12/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q3	Project #: 50022203			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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 X	904.0/PrecSep_0 X	Ra226_228GFPC_P/ X	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
VER_035&D (500-239823-27)	9/22/23	09:35 Central		Water			X	X	X	2	
VER_035&D-DUP (500-239823-28)	9/22/23	09:40 Central		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: Shin Scott Fedex	Date/Time: 9/25/23 0900	Company	Received by: Fedex	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: SEP 26 2023 0830	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:

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:	Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	COC No: 500-179489.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Carlene.McCutcheon@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239823-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/19/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q3	Project #: 50022203			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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 W	904.0/PrecSep_0 W	Ra226_228GFPC_P/ W	903.0/PrecSep_21 X	904.0/PrecSep_0 X	Ra226_228GFPC_P/ X	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
VER_FB/EB-1 (500-239823-29)	9/25/23	18:00 Central		Water			X	X	X	X	X	X	2	
VER_101& (500-239823-30)	9/25/23	16:12 Central		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
Shirley Scott Fedex	9/26/23 1345		Fedex		
Relinquished by: Fedex	Date/Time:	Company	Received by: M Pinette	Date/Time: SEP 27 2023 0845	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:

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:	Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	COC No: 500-179524.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Carlene.McCutcheon@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239823-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/19/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q3	Project #: 50022203			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

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 W	904.0/PrecSep_0 W	Ra226_228GFPC_P/ W	903.0/PrecSep_21 X	904.0/PrecSep_0 X	Ra226_228GFPC_P/ X	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
VER_103& (500-239823-33)	9/26/23	10:43 Central		Water			X	X	X				2	
VER_NED1 (500-239823-34)	9/26/23	13:36 Central		Water						X	X	X	2	
VER_EB-1 (500-239823-35)	9/26/23	17:00 Central		Water			X	X	X	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
[signature] Fedex	9/27/23 1515		Fedex		
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: SEP 28 2023 0840	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-239823-2
SDG Number: VER_845_912_RAD

Login Number: 239823
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,0.4,2.7,2.5,2.4,2.2,0.8,1.6,2.4,1.5,1.8,1.6,4.6,3.3,5.3,5.1,1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	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	

Client: Vistra Energy Corp

Job Number: 500-239823-2
SDG Number: VER_845_912_RAD

Login Number: 239823
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 09/21/23 12:43 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?	True	
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").	True	
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: 500-239823-2
SDG Number: VER_845_912_RAD

Login Number: 239823
List Number: 3
Creator: Korrinhizer, Micha L

List Source: Eurofins St. Louis
List Creation: 09/22/23 12:21 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?	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Vistra Energy Corp

Job Number: 500-239823-2
SDG Number: VER_845_912_RAD

Login Number: 239823
List Number: 4
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 09/25/23 02:52 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?	True	
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").	True	
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: 500-239823-2
SDG Number: VER_845_912_RAD

Login Number: 239823
List Number: 5
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 09/26/23 01:41 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?	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Vistra Energy Corp

Job Number: 500-239823-2
SDG Number: VER_845_912_RAD

Login Number: 239823
List Number: 6
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 09/27/23 11:10 AM

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?	True	
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").	True	
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: 500-239823-2
SDG Number: VER_845_912_RAD

Login Number: 239823
List Number: 7
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 09/28/23 01:33 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?	True	
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").	True	
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-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_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)
500-239823-1	VER_070#S	90.5
500-239823-2	VER_070#SDUP	84.6
500-239823-3	VER_010	86.6
500-239823-4	VER_010DUP	85.1
500-239823-5	VER_070&D	92.4
500-239823-6	VER_022	92.2
500-239823-6 MS	VER_022_MS	93.4
500-239823-6 MSD	VER_022_MSD	93.2
500-239823-7	VER_002	79.2
500-239823-8	VER_002DUP	85.3
500-239823-9	VER_004	85.3
500-239823-9 MS	VER_004_MS	94.1
500-239823-9 MSD	VER_004_MSD	87.8
500-239823-10	VER_021	86.6
500-239823-11	VER_036	88.8
500-239823-12	VER_037	84.4
500-239823-13	VER_041	73.6
500-239823-14	VER_003R	71.9
500-239823-15	VER_005	69.4
500-239823-16	VER_008R	84.4
500-239823-17	VER_016A	79.0
500-239823-18	VER_017	82.2
500-239823-19	VER_020	75.1
500-239823-20	VER_034	86.1
500-239823-21	VER_038	74.3
500-239823-22	VER_040	95.6
500-239823-23	VER_042	87.3
500-239823-24	VER_043	80.7
500-239823-25	VER_EB-01	77.0
500-239823-26	VER_EB-02	89.7
500-239823-26 DU	VER_EB-02	87.3
500-239823-27	VER_035&D	91.9
500-239823-28	VER_035&D-DUP	91.0
500-239823-29	VER_FB/EB-1	88.8
500-239823-30	VER_101&	76.8
500-239823-33	VER_103&	70.7
500-239823-34	VER_NED1	91.2
500-239823-35	VER_EB-1	96.8
LCS 160-629216/2-A	Lab Control Sample	90.5
LCS 160-629461/2-A	Lab Control Sample	87.8
LCS 160-629533/2-A	Lab Control Sample	90.2
LCS 160-629712/2-A	Lab Control Sample	90.5
LCS 160-629954/2-A	Lab Control Sample	90.2
LCS 160-630055/2-A	Lab Control Sample	95.4
LCS 160-630506/2-A	Lab Control Sample	96.3
MB 160-629216/1-A	Method Blank	87.5
MB 160-629461/1-A	Method Blank	88.8
MB 160-629533/1-A	Method Blank	88.5
MB 160-629712/1-A	Method Blank	94.6

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

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

Matrix: Water — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits) Ba (30-110)
MB 160-629954/1-A	Method Blank	77.0
MB 160-630055/1-A	Method Blank	94.4
MB 160-630506/1-A	Method Blank	96.3

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits) Ba (30-110)	Y (30-110)
500-239823-1	VER_070#S	90.5	80.0
500-239823-2	VER_070#SDUP	84.6	77.8
500-239823-3	VER_010	86.6	81.1
500-239823-4	VER_010DUP	85.1	75.5
500-239823-5	VER_070&D	92.4	75.9
500-239823-6	VER_022	92.2	70.7
500-239823-6 MS	VER_022_MS	93.4	72.9
500-239823-6 MSD	VER_022_MSD	93.2	71.0
500-239823-7	VER_002	79.2	76.6
500-239823-8	VER_002DUP	85.3	76.6
500-239823-9	VER_004	85.3	80.0
500-239823-9 MS	VER_004_MS	94.1	78.1
500-239823-9 MSD	VER_004_MSD	87.8	79.6
500-239823-10	VER_021	86.6	75.9
500-239823-11	VER_036	88.8	79.3
500-239823-12	VER_037	84.4	79.3
500-239823-13	VER_041	73.6	78.5
500-239823-14	VER_003R	71.9	79.3
500-239823-15	VER_005	69.4	80.4
500-239823-16	VER_008R	84.4	83.4
500-239823-17	VER_016A	79.0	80.0
500-239823-18	VER_017	82.2	83.4
500-239823-19	VER_020	75.1	77.4
500-239823-20	VER_034	86.1	78.9
500-239823-21	VER_038	74.3	79.6
500-239823-22	VER_040	95.6	86.0
500-239823-23	VER_042	87.3	78.9
500-239823-24	VER_043	80.7	81.9
500-239823-25	VER_EB-01	77.0	83.4
500-239823-26	VER_EB-02	89.7	87.1
500-239823-26 DU	VER_EB-02	87.3	83.4
500-239823-27	VER_035&D	91.9	70.3
500-239823-28	VER_035&D-DUP	91.0	83.4
500-239823-29	VER_FB/EB-1	88.8	76.6
500-239823-30	VER_101&	76.8	75.5
500-239823-33	VER_103&	70.7	81.1
500-239823-34	VER_NED1	91.2	80.7
500-239823-35	VER_EB-1	96.8	81.9

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_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)								
LCS 160-629220/2-A	Lab Control Sample	90.5	84.9								
LCS 160-629462/2-A	Lab Control Sample	87.8	80.7								
LCS 160-629534/2-A	Lab Control Sample	90.2	84.1								
LCS 160-629714/2-A	Lab Control Sample	90.5	83.7								
LCS 160-629957/2-A	Lab Control Sample	90.2	82.2								
LCS 160-630056/2-A	Lab Control Sample	95.4	81.9								
LCS 160-630512/2-A	Lab Control Sample	96.3	85.2								
MB 160-629220/1-A	Method Blank	87.5	84.1								
MB 160-629462/1-A	Method Blank	88.8	80.0								
MB 160-629534/1-A	Method Blank	88.5	84.1								
MB 160-629714/1-A	Method Blank	94.6	82.6								
MB 160-629957/1-A	Method Blank	77.0	78.1								
MB 160-630056/1-A	Method Blank	94.4	83.0								
MB 160-630512/1-A	Method Blank	96.3	82.6								

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 3, 2023

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
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	E002	Antimony, total	mg/L	04/01/21 - 09/21/23	9	89	CI around median	0.001	0.00500
16A	BCU	E002	Arsenic, total	mg/L	04/01/21 - 09/21/23	9	0	CI around mean	0.000978	0.001
16A	BCU	E002	Barium, total	mg/L	04/01/21 - 09/21/23	9	0	CI around mean	0.24	0.0820
16A	BCU	E002	Beryllium, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.001	0.001
16A	BCU	E002	Boron, total	mg/L	04/01/21 - 09/21/23	9	0	CI around mean	0.678	0.430
16A	BCU	E002	Cadmium, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.0005	0.001
16A	BCU	E002	Chloride, total	mg/L	04/01/21 - 09/21/23	9	0	CI around mean	121	20.4
16A	BCU	E002	Chromium, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.005	0.00400
16A	BCU	E002	Cobalt, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.001	0.0900
16A	BCU	E002	Fluoride, total	mg/L	04/01/21 - 09/21/23	9	11	CI around mean	0.628	0.430
16A	BCU	E002	Lead, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.0005	0.001
16A	BCU	E002	Lithium, total	mg/L	04/01/21 - 09/21/23	9	0	CI around mean	0.0291	0.0300
16A	BCU	E002	Mercury, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.0002	0.0002
16A	BCU	E002	Molybdenum, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.005	0.00400
16A	BCU	E002	pH (field)	SU	04/01/21 - 09/21/23	14	0	CI around median	7.2/7.4	6.3/7.8
16A	BCU	E002	Selenium, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.0025	0.001
16A	BCU	E002	Sulfate, total	mg/L	04/01/21 - 09/21/23	14	5	CI around mean	14.5	338
16A	BCU	E002	Thallium, total	mg/L	04/01/21 - 09/21/23	9	100	All ND - Last	0.002	0.002
16A	BCU	E002	Total Dissolved Solids	mg/L	04/01/21 - 09/21/23	14	0	CI around mean	640	1,080
35D	BCU	E002	Antimony, total	mg/L	04/01/21 - 09/22/23	10	70	CI around median	0.001	0.00500
35D	BCU	E002	Arsenic, total	mg/L	04/01/21 - 09/22/23	10	10	CI around mean	0.0016	0.001
35D	BCU	E002	Barium, total	mg/L	04/01/21 - 09/22/23	10	0	CI around median	0.0261	0.0820
35D	BCU	E002	Beryllium, total	mg/L	04/01/21 - 09/22/23	10	100	All ND - Last	0.001	0.001
35D	BCU	E002	Boron, total	mg/L	04/01/21 - 09/22/23	10	0	CI around mean	1.55	0.430
35D	BCU	E002	Cadmium, total	mg/L	04/01/21 - 09/22/23	10	100	All ND - Last	0.0005	0.001
35D	BCU	E002	Chloride, total	mg/L	04/01/21 - 09/22/23	10	0	CI around mean	271	20.4
35D	BCU	E002	Chromium, total	mg/L	04/01/21 - 09/22/23	10	70	CI around median	0.0015	0.00400

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
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
35D	BCU	E002	Cobalt, total	mg/L	04/01/21 - 09/22/23	10	30	CI around geomean	0.000904	0.0900
35D	BCU	E002	Fluoride, total	mg/L	04/01/21 - 09/22/23	10	10	CI around median	0.65	0.430
35D	BCU	E002	Lead, total	mg/L	04/01/21 - 09/22/23	10	40	CI around geomean	0.000801	0.001
35D	BCU	E002	Lithium, total	mg/L	04/01/21 - 09/22/23	10	0	CI around mean	0.107	0.0300
35D	BCU	E002	Mercury, total	mg/L	04/01/21 - 09/22/23	10	100	All ND - Last	0.0002	0.0002
35D	BCU	E002	Molybdenum, total	mg/L	04/01/21 - 09/22/23	10	10	CI around mean	0.0107	0.00400
35D	BCU	E002	pH (field)	SU	04/01/21 - 09/22/23	14	0	CI around median	7.2/7.7	6.3/7.8
35D	BCU	E002	Selenium, total	mg/L	04/01/21 - 09/22/23	10	100	All ND - Last	0.0025	0.001
35D	BCU	E002	Sulfate, total	mg/L	04/01/21 - 09/22/23	15	0	CI around mean	1,060	338
35D	BCU	E002	Thallium, total	mg/L	04/01/21 - 09/22/23	10	100	All ND - Last	0.002	0.002
35D	BCU	E002	Total Dissolved Solids	mg/L	04/01/21 - 09/22/23	15	0	CI around mean	2,610	1,080
70S	UU	E002	Antimony, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.003	0.00500
70S	UU	E002	Arsenic, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.001	0.001
70S	UU	E002	Barium, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	0.0162	0.0820
70S	UU	E002	Beryllium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.001	0.001
70S	UU	E002	Boron, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	0.347	0.430
70S	UU	E002	Cadmium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.0005	0.001
70S	UU	E002	Chloride, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	13.4	20.4
70S	UU	E002	Chromium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.005	0.00400
70S	UU	E002	Cobalt, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.001	0.0900
70S	UU	E002	Fluoride, total	mg/L	04/01/21 - 09/19/23	10	10	CB around T-S line	0.14	0.430
70S	UU	E002	Lead, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.0005	0.001
70S	UU	E002	Lithium, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	0.0116	0.0300
70S	UU	E002	Mercury, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.0002	0.0002
70S	UU	E002	Molybdenum, total	mg/L	04/01/21 - 09/19/23	10	10	CI around mean	0.00499	0.00400
70S	UU	E002	pH (field)	SU	04/01/21 - 09/19/23	10	0	CI around mean	6.9/7.0	6.3/7.8
70S	UU	E002	Selenium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.0025	0.001

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
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	E002	Sulfate, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	598	338
70S	UU	E002	Thallium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.002	0.002
70S	UU	E002	Total Dissolved Solids	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	1,220	1,080
70D	BCU	E002	Antimony, total	mg/L	04/01/21 - 09/19/23	10	80	CI around median	0.001	0.00500
70D	BCU	E002	Arsenic, total	mg/L	04/01/21 - 09/19/23	10	50	CI around mean	0.000443	0.001
70D	BCU	E002	Barium, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	0.445	0.0820
70D	BCU	E002	Beryllium, total	mg/L	04/01/21 - 09/19/23	10	70	CI around median	0.001	0.001
70D	BCU	E002	Boron, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	1.09	0.430
70D	BCU	E002	Cadmium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.0005	0.001
70D	BCU	E002	Chloride, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	503	20.4
70D	BCU	E002	Chromium, total	mg/L	04/01/21 - 09/19/23	10	20	CI around geomean	0.00352	0.00400
70D	BCU	E002	Cobalt, total	mg/L	04/01/21 - 09/19/23	10	10	CI around geomean	0.00161	0.0900
70D	BCU	E002	Fluoride, total	mg/L	04/01/21 - 09/19/23	10	10	CI around mean	0.399	0.430
70D	BCU	E002	Lead, total	mg/L	04/01/21 - 09/19/23	10	20	CI around geomean	0.00144	0.001
70D	BCU	E002	Lithium, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	0.0698	0.0300
70D	BCU	E002	Mercury, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.0002	0.0002
70D	BCU	E002	Molybdenum, total	mg/L	04/01/21 - 09/19/23	10	20	CB around linear reg	-0.031	0.00400
70D	BCU	E002	pH (field)	SU	04/01/21 - 09/19/23	10	0	CB around linear reg	6.2/7.4	6.3/7.8
70D	BCU	E002	Selenium, total	mg/L	04/01/21 - 09/19/23	10	80	CI around median	0.001	0.001
70D	BCU	E002	Sulfate, total	mg/L	04/01/21 - 09/19/23	10	0	CI around mean	47.5	338
70D	BCU	E002	Thallium, total	mg/L	04/01/21 - 09/19/23	10	100	All ND - Last	0.002	0.002
70D	BCU	E002	Total Dissolved Solids	mg/L	04/01/21 - 09/19/23	10	0	CB around linear reg	871	1,080
71D	BCU	E002	pH (field)	SU	04/01/21 - 09/19/23	5	0	CI around mean	6.7/7.6	6.3/7.8

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845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Notes:
Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value
HSU = hydrostratigraphic unit:

BCU = Bedrock Confining Unit

UU = Upper Unit

mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range
For pH, the values presented are the lower / upper limits of the background determination