Luminant

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

July 19, 2024

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

Re: Hennepin Power Plant East Ash Pond; IEPA ID # W1550100002-05

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 2, 2024 sampling event at the Hennepin Power Plant East Ash Pond, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1550100002-05. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS.

Sincerely,

Dianna Tickner

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

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 2, 2024, East Ash Pond, Hennepin Power Plant, Hennepin, Illinois

RAMBOLL

ENVIRONMENT
& HEALTH

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

July 19, 2024

Samples were collected on April 15 and 16, 2024 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 May 20, 2024.

The monitoring well locations are included in **Figure 1**. **Attachment A** summarizes the groundwater elevation data for the Quarter 2, 2024 sampling event. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 2, 2024 sampling event.

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 2, 2024 groundwater monitoring data were evaluated for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

In accordance with 35 I.A.C. § 845.610(b)(3)(C), the statistically derived values identified as Statistical Results in **Table 2** were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS. As shown in **Table 2**, exceedances of the GWPS were not identified.

TABLES

FIGURES

ATTACHMENTS

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

TABLES

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
07	Background	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
07	Background	E005	04/16/2024	Arsenic, total	0.00023 U	mg/L
07	Background	E005	04/16/2024	Barium, total	0.0990	mg/L
07	Background	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
07	Background	E005	04/16/2024	Boron, total	0.0730 J+	mg/L
07	Background	E005	04/16/2024	Cadmium, total	0.00017 U	mg/L
07	Background	E005	04/16/2024	Calcium, total	120	mg/L
07	Background	E005	04/16/2024	Chloride, total	49.0	mg/L
07	Background	E005	04/16/2024	Chromium, total	0.0012 J	mg/L
07	Background	E005	04/16/2024	Cobalt, total	0.00680	mg/L
07	Background	E005	04/16/2024	Dissolved Oxygen	5.12	mg/L
07	Background	E005	04/16/2024	Fluoride, total	0.130	mg/L
07	Background	E005	04/16/2024	Lead, total	0.00019 U	mg/L
07	Background	E005	04/16/2024	Lithium, total	0.00800	mg/L
07	Background	E005	04/16/2024	Mercury, total	0.00019 U	mg/L
07	Background	E005	04/16/2024	Molybdenum, total	0.0025 U	mg/L
07	Background	E005	04/16/2024	Oxidation Reduction Potential	154	mV
07	Background	E005	04/16/2024	pH (field)	7.0	SU
07	Background	E005	04/16/2024	Radium 226 + Radium 228, total	1.3	pCi/L
07	Background	E005	04/16/2024	Selenium, total	0.00098 U	mg/L
07	Background	E005	04/16/2024	Specific Conductance @ 25C (field)	1,036	micromhos/cm
07	Background	E005	04/16/2024	Sulfate, total	60.0	mg/L
07	Background	E005	04/16/2024	Temperature	12.8	degrees C
07	Background	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
07	Background	E005	04/16/2024	Total Dissolved Solids	560	mg/L
07	Background	E005	04/16/2024	Turbidity, field	2.24	NTU
08	Background	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
08	Background	E005	04/16/2024	Arsenic, total	0.00023 U	mg/L
08	Background	E005	04/16/2024	Barium, total	0.120	mg/L
08	Background	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
08	Background	E005	04/16/2024	Boron, total	0.120 J+	mg/L
08	Background	E005	04/16/2024	Cadmium, total	0.000500	mg/L
08	Background	E005	04/16/2024	Calcium, total	170	mg/L
08	Background	E005	04/16/2024	Chloride, total	190	mg/L
08	Background	E005	04/16/2024	Chromium, total	0.0011 U	mg/L
08	Background	E005	04/16/2024	Cobalt, total	0.00330	mg/L
08	Background	E005	04/16/2024	Dissolved Oxygen	2.30	mg/L
08	Background	E005	04/16/2024	Fluoride, total	0.093 J	mg/L
08	Background	E005	04/16/2024	Lead, total	0.00048 J	mg/L
08	Background	E005	04/16/2024	Lithium, total	0.0160	mg/L
08	Background	E005	04/16/2024	Mercury, total	0.000076 U	mg/L
08	Background	E005	04/16/2024	Molybdenum, total	0.0025 U	mg/L
08	Background	E005	04/16/2024	Oxidation Reduction Potential	167	mV
08	Background	E005	04/16/2024	pH (field)	6.8	SU
08	Background	E005	04/16/2024	Radium 226 + Radium 228, total	1.35	pCi/L
08	Background	E005	04/16/2024	Selenium, total	0.00098 U	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
08	Background	E005	04/16/2024	Specific Conductance @ 25C (field)	1,879	micromhos/cm
08	Background	E005	04/16/2024	Sulfate, total	110	mg/L
08	Background	E005	04/16/2024	Temperature	14.6	degrees C
08	Background	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
08	Background	E005	04/16/2024	Total Dissolved Solids	1,100	mg/L
08	Background	E005	04/16/2024	Turbidity, field	0.550	NTU
08D	Background	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
08D	Background	E005	04/16/2024	Arsenic, total	0.00023 U	mg/L
08D	Background	E005	04/16/2024	Barium, total	0.120	mg/L
08D	Background	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
08D	Background	E005	04/16/2024	Boron, total	0.0990 J+	mg/L
08D	Background	E005	04/16/2024	Cadmium, total	0.00110	mg/L
08D	Background	E005	04/16/2024	Calcium, total	200	mg/L
08D	Background	E005	04/16/2024	Chloride, total	310	mg/L
08D	Background	E005	04/16/2024	Chromium, total	0.0011 U	mg/L
08D	Background	E005	04/16/2024	Cobalt, total	0.00680	mg/L
08D	Background	E005	04/16/2024	Dissolved Oxygen	1.08	mg/L
08D	Background	E005	04/16/2024	Fluoride, total	0.110	mg/L
08D	Background	E005	04/16/2024	Lead, total	0.000930	mg/L
08D	Background	E005	04/16/2024	Lithium, total	0.00940	mg/L
08D	Background	E005	04/16/2024	Mercury, total	0.000076 U	mg/L
08D	Background	E005	04/16/2024	Molybdenum, total	0.0025 U	mg/L
08D	Background	E005	04/16/2024	Oxidation Reduction Potential	154	mV
08D	Background	E005	04/16/2024	pH (field)	6.7	SU
08D	Background	E005	04/16/2024	Radium 226 + Radium 228, total	0.413	pCi/L
08D	Background	E005	04/16/2024	Selenium, total	0.00098 U	mg/L
08D	Background	E005	04/16/2024	Specific Conductance @ 25C (field)	3,232	micromhos/cm
08D	Background	E005	04/16/2024	Sulfate, total	190	mg/L
08D	Background	E005	04/16/2024	Temperature	13.8	degrees C
08D	Background	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
08D	Background	E005	04/16/2024	Total Dissolved Solids	1,400	mg/L
08D	Background	E005	04/16/2024	Turbidity, field	3.49	NTU
16	Background	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
16	Background	E005	04/16/2024	Arsenic, total	0.00023 U	mg/L
16	Background	E005	04/16/2024	Barium, total	0.0590	mg/L
16	Background	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
16	Background	E005	04/16/2024	Boron, total	0.0840 J+	mg/L
16	Background	E005	04/16/2024	Cadmium, total	0.00017 U	mg/L
16	Background	E005	04/16/2024	Calcium, total	73.0	mg/L
16	Background	E005	04/16/2024	Chloride, total	61.0	mg/L
16	Background	E005	04/16/2024	Chromium, total	0.0011 U	mg/L
16	Background	E005	04/16/2024	Cobalt, total	0.0004 U	mg/L
16	Background	E005	04/16/2024	Dissolved Oxygen	7.10	mg/L
16	Background	E005	04/16/2024	Fluoride, total	0.240	mg/L
16	Background	E005	04/16/2024	Lead, total	0.00019 U	mg/L
16	Background	E005	04/16/2024	Lithium, total	0.002 U	mg/L

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HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
16	Background	E005	04/16/2024	Mercury, total	0.000095 J	mg/L
16	Background	E005	04/16/2024	Molybdenum, total	0.00620	mg/L
16	Background	E005	04/16/2024	Oxidation Reduction Potential	149	mV
16	Background	E005	04/16/2024	pH (field)	7.4	SU
16	Background	E005	04/16/2024	Radium 226 + Radium 228, total	0.637	pCi/L
16	Background	E005	04/16/2024	Selenium, total	0.00098 U	mg/L
16	Background	E005	04/16/2024	Specific Conductance @ 25C (field)	1,051	micromhos/cm
16	Background	E005	04/16/2024	Sulfate, total	51.0	mg/L
16	Background	E005	04/16/2024	Temperature	13.5	degrees C
16	Background	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
16	Background	E005	04/16/2024	Total Dissolved Solids	420	mg/L
16	Background	E005	04/16/2024	Turbidity, field	0.720	NTU
17	Background	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
17	Background	E005	04/16/2024	Arsenic, total	0.00023 U	mg/L
17	Background	E005	04/16/2024	Barium, total	0.0770	mg/L
17	Background	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
17	Background	E005	04/16/2024	Boron, total	0.0870 J+	mg/L
17	Background	E005	04/16/2024	Cadmium, total	0.00017 U	mg/L
17	Background	E005	04/16/2024	Calcium, total	68.0	mg/L
17	Background	E005	04/16/2024	Chloride, total	59.0	mg/L
17	Background	E005	04/16/2024	Chromium, total	0.0011 U	mg/L
17	Background	E005	04/16/2024	Cobalt, total	0.0004 U	mg/L
17	Background	E005	04/16/2024	Dissolved Oxygen	7.42	mg/L
17	Background	E005	04/16/2024	Fluoride, total	0.180	mg/L
17	Background	E005	04/16/2024	Lead, total	0.00019 U	mg/L
17	Background	E005	04/16/2024	Lithium, total	0.0031 J	mg/L
17	Background	E005	04/16/2024	Mercury, total	0.000076 U	mg/L
17	Background	E005	04/16/2024	Molybdenum, total	0.0031 J	mg/L
17	Background	E005	04/16/2024	Oxidation Reduction Potential	154	mV
17	Background	E005	04/16/2024	pH (field)	7.3	SU
17	Background	E005	04/16/2024	Radium 226 + Radium 228, total	1.09	pCi/L
17	Background	E005	04/16/2024	Selenium, total	0.00098 U	mg/L
17	Background	E005	04/16/2024	Specific Conductance @ 25C (field)	1,053	micromhos/cm
17	Background	E005	04/16/2024	Sulfate, total	55.0	mg/L
17	Background	E005	04/16/2024	Temperature	14.8	degrees C
17	Background	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
17	Background	E005	04/16/2024	Total Dissolved Solids	420	mg/L
17	Background	E005	04/16/2024	Turbidity, field	6.22	NTU
12	Compliance	E005	04/15/2024	Antimony, total	0.0013 U	mg/L
12	Compliance	E005	04/15/2024	Arsenic, total	0.00023 J	mg/L
12	Compliance	E005	04/15/2024	Barium, total	0.0720	mg/L
12	Compliance	E005	04/15/2024	Beryllium, total	0.00053 U	mg/L
12	Compliance	E005	04/15/2024	Boron, total	0.210 J+	mg/L
12	Compliance	E005	04/15/2024	Cadmium, total	0.00017 U	mg/L
12	Compliance	E005	04/15/2024	Calcium, total	96.0	mg/L
12	Compliance	E005	04/15/2024	Chloride, total	68.0	mg/L

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845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
12	Compliance	E005	04/15/2024	Chromium, total	0.0011 U	mg/L
12	Compliance	E005	04/15/2024	Cobalt, total	0.0004 U	mg/L
12	Compliance	E005	04/15/2024	Dissolved Oxygen	3.04	mg/L
12	Compliance	E005	04/15/2024	Fluoride, total	0.190	mg/L
12	Compliance	E005	04/15/2024	Lead, total	0.00019 U	mg/L
12	Compliance	E005	04/15/2024	Lithium, total	0.0140	mg/L
12	Compliance	E005	04/15/2024	Mercury, total	0.000076 U	mg/L
12	Compliance	E005	04/15/2024	Molybdenum, total	0.0120	mg/L
12	Compliance	E005	04/15/2024	Oxidation Reduction Potential	114	mV
12	Compliance	E005	04/15/2024	pH (field)	7.2	SU
12	Compliance	E005	04/15/2024	Radium 226 + Radium 228, total	0.59	pCi/L
12	Compliance	E005	04/15/2024	Selenium, total	0.0014 J	mg/L
12	Compliance	E005	04/15/2024	Specific Conductance @ 25C (field)	999	micromhos/cm
12	Compliance	E005	04/15/2024	Sulfate, total	76.0	mg/L
12	Compliance	E005	04/15/2024	Temperature	17.6	degrees C
12	Compliance	E005	04/15/2024	Thallium, total	0.00057 U	mg/L
12	Compliance	E005	04/15/2024	Total Dissolved Solids	590	mg/L
12	Compliance	E005	04/15/2024	Turbidity, field	1.20	NTU
13	Compliance	E005	04/15/2024	Antimony, total	0.0013 U	mg/L
13	Compliance	E005	04/15/2024	Arsenic, total	0.00037 J	mg/L
13	Compliance	E005	04/15/2024	Barium, total	0.0530	mg/L
13	Compliance	E005	04/15/2024	Beryllium, total	0.00053 U	mg/L
13	Compliance	E005	04/15/2024	Boron, total	0.240 J+	mg/L
13	Compliance	E005	04/15/2024	Cadmium, total	0.00017 U	mg/L
13	Compliance	E005	04/15/2024	Calcium, total	92.0	mg/L
13	Compliance	E005	04/15/2024	Chloride, total	71.0	mg/L
13	Compliance	E005	04/15/2024	Chromium, total	0.0011 U	mg/L
13	Compliance	E005	04/15/2024	Cobalt, total	0.0004 U	mg/L
13	Compliance	E005	04/15/2024	Dissolved Oxygen	2.35	mg/L
13	Compliance	E005	04/15/2024	Fluoride, total	0.190	mg/L
13	Compliance	E005	04/15/2024	Lead, total	0.00021 J	mg/L
13	Compliance	E005	04/15/2024	Lithium, total	0.0180	mg/L
13	Compliance	E005	04/15/2024	Mercury, total	0.000076 U	mg/L
13	Compliance	E005	04/15/2024	Molybdenum, total	0.0110	mg/L
13	Compliance	E005	04/15/2024	Oxidation Reduction Potential	107	mV
13	Compliance	E005	04/15/2024	pH (field)	7.3	SU
13	Compliance	E005	04/15/2024	Radium 226 + Radium 228, total	0.0634	pCi/L
13	Compliance	E005	04/15/2024	Selenium, total	0.0011 J	mg/L
13	Compliance	E005	04/15/2024	Specific Conductance @ 25C (field)	998	micromhos/cm
13	Compliance	E005	04/15/2024	Sulfate, total	76.0	mg/L
13	Compliance	E005	04/15/2024	Temperature	17.9	degrees C
13	Compliance	E005	04/15/2024	Thallium, total	0.00057 U	mg/L
13	Compliance	E005	04/15/2024	Total Dissolved Solids	570	mg/L
13	Compliance	E005	04/15/2024	Turbidity, field	0.560	NTU
46	Compliance	E005	04/15/2024	Antimony, total	0.0013 U	mg/L
46	Compliance	E005	04/15/2024	Arsenic, total	0.00023 U	mg/L

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845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
46	Compliance	E005	04/15/2024	Barium, total	0.0760	mg/L
46	Compliance	E005	04/15/2024	Beryllium, total	0.00053 U	mg/L
46	Compliance	E005	04/15/2024	Boron, total	0.300 J+	mg/L
46	Compliance	E005	04/15/2024	Cadmium, total	0.00017 U	mg/L
46	Compliance	E005	04/15/2024	Calcium, total	91.0	mg/L
46	Compliance	E005	04/15/2024	Chloride, total	66.0	mg/L
46	Compliance	E005	04/15/2024	Chromium, total	0.0011 J	mg/L
46	Compliance	E005	04/15/2024	Cobalt, total	0.0004 U	mg/L
46	Compliance	E005	04/15/2024	Dissolved Oxygen	2.63	mg/L
46	Compliance	E005	04/15/2024	Fluoride, total	0.210	mg/L
46	Compliance	E005	04/15/2024	Lead, total	0.00019 U	mg/L
46	Compliance	E005	04/15/2024	Lithium, total	0.0130	mg/L
46	Compliance	E005	04/15/2024	Mercury, total	0.000076 U	mg/L
46	Compliance	E005	04/15/2024	Molybdenum, total	0.0150	mg/L
46	Compliance	E005	04/15/2024	Oxidation Reduction Potential	151	mV
46	Compliance	E005	04/15/2024	pH (field)	7.3	SU
46	Compliance	E005	04/15/2024	Radium 226 + Radium 228, total	0.436	pCi/L
46	Compliance	E005	04/15/2024	Selenium, total	0.0014 J	mg/L
46	Compliance	E005	04/15/2024	Specific Conductance @ 25C (field)	1,320	micromhos/cm
46	Compliance	E005	04/15/2024	Sulfate, total	79.0	mg/L
46	Compliance	E005	04/15/2024	Temperature	16.9	degrees C
46	Compliance	E005	04/15/2024	Thallium, total	0.00057 U	mg/L
46	Compliance	E005	04/15/2024	Total Dissolved Solids	530	mg/L
46	Compliance	E005	04/15/2024	Turbidity, field	0.920	NTU
47	Compliance	E005	04/15/2024	Antimony, total	0.0013 U	mg/L
47	Compliance	E005	04/15/2024	Arsenic, total	0.00023 U	mg/L
47	Compliance	E005	04/15/2024	Barium, total	0.0920	mg/L
47	Compliance	E005	04/15/2024	Beryllium, total	0.00053 U	mg/L
47	Compliance	E005	04/15/2024	Boron, total	0.260 J+	mg/L
47	Compliance	E005	04/15/2024	Cadmium, total	0.00017 U	mg/L
47	Compliance	E005	04/15/2024	Calcium, total	100	mg/L
47	Compliance	E005	04/15/2024	Chloride, total	68.0	mg/L
47	Compliance	E005	04/15/2024	Chromium, total	0.0011 U	mg/L
47	Compliance	E005	04/15/2024	Cobalt, total	0.0004 U	mg/L
47	Compliance	E005	04/15/2024	Dissolved Oxygen	2.22	mg/L
47	Compliance	E005	04/15/2024	Fluoride, total	0.280	mg/L
47	Compliance	E005	04/15/2024	Lead, total	0.00019 U	mg/L
47	Compliance	E005	04/15/2024	Lithium, total	0.0110	mg/L
47	Compliance	E005	04/15/2024	Mercury, total	0.000076 U	mg/L
47	Compliance	E005	04/15/2024	Molybdenum, total	0.0240	mg/L
47	Compliance	E005	04/15/2024	Oxidation Reduction Potential	148	mV
47	Compliance	E005	04/15/2024	pH (field)	7.1	SU
47	Compliance	E005	04/15/2024	Radium 226 + Radium 228, total	0.402	pCi/L
47	Compliance	E005	04/15/2024	Selenium, total	0.00400	mg/L
47	Compliance	E005	04/15/2024	Specific Conductance @ 25C (field)	1,358	micromhos/cm
47	Compliance	E005	04/15/2024	Sulfate, total	73.0	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
47	Compliance	E005	04/15/2024	Temperature	18.1	degrees C
47	Compliance	E005	04/15/2024	Thallium, total	0.00057 U	mg/L
47	Compliance	E005	04/15/2024	Total Dissolved Solids	560	mg/L
47	Compliance	E005	04/15/2024	Turbidity, field	0.740	NTU
52	Compliance	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
52	Compliance	E005	04/16/2024	Arsenic, total	0.00023 U	mg/L
52	Compliance	E005	04/16/2024	Barium, total	0.0780	mg/L
52	Compliance	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
52	Compliance	E005	04/16/2024	Boron, total	0.440 J+	mg/L
52	Compliance	E005	04/16/2024	Cadmium, total	0.00017 U	mg/L
52	Compliance	E005	04/16/2024	Calcium, total	81.0	mg/L
52	Compliance	E005	04/16/2024	Chloride, total	70.0	mg/L
52	Compliance	E005	04/16/2024	Chromium, total	0.0011 U	mg/L
52	Compliance	E005	04/16/2024	Cobalt, total	0.0004 U	mg/L
52	Compliance	E005	04/16/2024	Dissolved Oxygen	2.36	mg/L
52	Compliance	E005	04/16/2024	Fluoride, total	0.310	mg/L
52	Compliance	E005	04/16/2024	Lead, total	0.00019 U	mg/L
52	Compliance	E005	04/16/2024	Lithium, total	0.0046 J	mg/L
52	Compliance	E005	04/16/2024	Mercury, total	0.000076 U	mg/L
52	Compliance	E005	04/16/2024	Molybdenum, total	0.0170	mg/L
52	Compliance	E005	04/16/2024	Oxidation Reduction Potential	134	mV
52	Compliance	E005	04/16/2024	pH (field)	7.2	SU
52	Compliance	E005	04/16/2024	Radium 226 + Radium 228, total	1.33	pCi/L
52	Compliance	E005	04/16/2024	Selenium, total	0.0024 J	mg/L
52	Compliance	E005	04/16/2024	Specific Conductance @ 25C (field)	946	micromhos/cm
52	Compliance	E005	04/16/2024	Sulfate, total	71.0	mg/L
52	Compliance	E005	04/16/2024	Temperature	18.4	degrees C
52	Compliance	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
52	Compliance	E005	04/16/2024	Total Dissolved Solids	540	mg/L
52	Compliance	E005	04/16/2024	Turbidity, field	1.70	NTU
54	Compliance	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
54	Compliance	E005	04/16/2024	Arsenic, total	0.00024 J	mg/L
54	Compliance	E005	04/16/2024	Barium, total	0.0560	mg/L
54	Compliance	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
54	Compliance	E005	04/16/2024	Boron, total	0.580 J+	mg/L
54	Compliance	E005	04/16/2024	Cadmium, total	0.00017 U	mg/L
54	Compliance	E005	04/16/2024	Calcium, total	86.0	mg/L
54	Compliance	E005	04/16/2024	Chloride, total	71.0	mg/L
54	Compliance	E005	04/16/2024	Chromium, total	0.0011 U	mg/L
54	Compliance	E005	04/16/2024	Cobalt, total	0.0004 U	mg/L
54	Compliance	E005	04/16/2024	Dissolved Oxygen	1.07	mg/L
54	Compliance	E005	04/16/2024	Fluoride, total	0.270	mg/L
54	Compliance	E005	04/16/2024	Lead, total	0.00019 U	mg/L
54	Compliance	E005	04/16/2024	Lithium, total	0.290 J	mg/L
54	Compliance	E005	04/16/2024	Mercury, total	0.00170	mg/L
54	Compliance	E005	04/16/2024	Molybdenum, total	0.0250	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
54	Compliance	E005	04/16/2024	Oxidation Reduction Potential	152	mV
54	Compliance	E005	04/16/2024	pH (field)	7.3	SU
54	Compliance	E005	04/16/2024	Radium 226 + Radium 228, total	0.551	pCi/L
54	Compliance	E005	04/16/2024	Selenium, total	0.00280	mg/L
54	Compliance	E005	04/16/2024	Specific Conductance @ 25C (field)	1,340	micromhos/cm
54	Compliance	E005	04/16/2024	Sulfate, total	88.0	mg/L
54	Compliance	E005	04/16/2024	Temperature	17.7	degrees C
54	Compliance	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
54	Compliance	E005	04/16/2024	Total Dissolved Solids	580	mg/L
54	Compliance	E005	04/16/2024	Turbidity, field	1.61	NTU

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

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
12	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	21	100	All ND - Last	0.003	0.006	Standard	No Exceedance
12	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	26	100	All ND - Last	0.001	0.010	Standard	No Exceedance
12	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	0.0527	2.0	Standard	No Exceedance
12	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
12	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	29	0	CB around T-S line	0.0437	2	Standard	No Exceedance
12	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	30	90	CI around median	0.001	0.005	Standard	No Exceedance
12	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	70.5	435	Background	No Exceedance
12	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	26	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
12	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	24	83	Most recent sample	0.001	0.0380	Background	No Exceedance
12	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	29	2	CI around median	0.23	4.0	Standard	No Exceedance
12	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	26	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
12	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	25	4	CB around linear reg	0.00615	0.04	Standard	No Exceedance
12	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
12	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	28	0	CB around linear reg	0.0102	0.1	Standard	No Exceedance
12	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	36	0	CI around mean	7.3/7.4	6.5/9.0	Standard/Standard	No Exceedance
12	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.354	5	Standard	No Exceedance
12	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	28	59	CI around median	0.001	0.05	Standard	No Exceedance
12	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	64.3	400	Standard	No Exceedance
12	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
12	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	464	1,620	Background	No Exceedance
13	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	21	96	CB around T-S line	0.001	0.006	Standard	No Exceedance
13	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	26	97	CI around median	0.001	0.010	Standard	No Exceedance
13	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	0.0433	2.0	Standard	No Exceedance
13	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
13	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	0.553	2	Standard	No Exceedance
13	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	30	98	CI around median	0.001	0.005	Standard	No Exceedance
13	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	73.5	435	Background	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
13	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	26	86	CB around T-S line	0.00171	0.1	Standard	No Exceedance
13	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	24	83	Most recent sample	0.001	0.0380	Background	No Exceedance
13	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	29	2	CI around median	0.2	4.0	Standard	No Exceedance
13	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	26	97	CI around median	0.001	0.0075	Standard	No Exceedance
13	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	0.0162	0.04	Standard	No Exceedance
13	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
13	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	28	26	CI around mean	0.0144	0.1	Standard	No Exceedance
13	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	36	0	CI around mean	7.4/7.5	6.5/9.0	Standard/Standard	No Exceedance
13	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around mean	0.464	5	Standard	No Exceedance
13	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	28	46	CI around mean	0.00134	0.05	Standard	No Exceedance
13	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	77.1	400	Standard	No Exceedance
13	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
13	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	483	1,620	Background	No Exceedance
46	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.003	0.006	Standard	No Exceedance
46	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.001	0.010	Standard	No Exceedance
46	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0668	2.0	Standard	No Exceedance
46	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
46	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	0.2	2	Standard	No Exceedance
46	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
46	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	70.1	435	Background	No Exceedance
46	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	22	91	CB around T-S line	0.0015	0.1	Standard	No Exceedance
46	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.001	0.0380	Background	No Exceedance
46	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	25	4	CI around median	0.23	4.0	Standard	No Exceedance
46	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
46	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	24	4	CI around median	0.0089	0.04	Standard	No Exceedance
46	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
46	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	24	0	CB around T-S line	0.0106	0.1	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
46	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	25	0	CB around linear reg	7.0/7.3	6.5/9.0	Standard/Standard	No Exceedance
46	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.319	5	Standard	No Exceedance
46	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	24	62	CI around median	0.001	0.05	Standard	No Exceedance
46	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	25	0	CI around geomean	62.8	400	Standard	No Exceedance
46	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
46	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	25	0	CB around linear reg	463	1,620	Background	No Exceedance
47	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.003	0.006	Standard	No Exceedance
47	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	22	96	CI around median	0.001	0.010	Standard	No Exceedance
47	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0848	2.0	Standard	No Exceedance
47	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
47	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	25	0	CI around geomean	0.219	2	Standard	No Exceedance
47	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
47	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	74.2	435	Background	No Exceedance
47	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	22	96	CB around T-S line	0.00128	0.1	Standard	No Exceedance
47	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	23	83	CI around median	0.001	0.0380	Background	No Exceedance
47	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	25	4	CB around T-S line	0.217	4.0	Standard	No Exceedance
47	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
47	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	24	0	CI around mean	0.00843	0.04	Standard	No Exceedance
47	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
47	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0137	0.1	Standard	No Exceedance
47	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	25	0	CI around mean	7.0/7.1	6.5/9.0	Standard/Standard	No Exceedance
47	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.317	5	Standard	No Exceedance
47	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	23	87	CB around T-S line	0.001	0.05	Standard	No Exceedance
47	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	64.6	400	Standard	No Exceedance
47	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
47	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	25	0	CB around linear reg	501	1,620	Background	No Exceedance
52	UA	E005	Antimony, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.003	0.006	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
52	UA	E005	Arsenic, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.010	Standard	No Exceedance
52	UA	E005	Barium, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0738	2.0	Standard	No Exceedance
52	UA	E005	Beryllium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
52	UA	E005	Boron, total	mg/L	02/24/21 - 04/16/24	14	0	CI around geomean	0.141	2	Standard	No Exceedance
52	UA	E005	Cadmium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
52	UA	E005	Chloride, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	73.4	435	Background	No Exceedance
52	UA	E005	Chromium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.005	0.1	Standard	No Exceedance
52	UA	E005	Cobalt, total	mg/L	02/24/21 - 04/16/24	14	93	Most recent sample	0.001	0.0380	Background	No Exceedance
52	UA	E005	Fluoride, total	mg/L	02/24/21 - 04/16/24	14	7	CI around geomean	0.264	4.0	Standard	No Exceedance
52	UA	E005	Lead, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
52	UA	E005	Lithium, total	mg/L	02/24/21 - 04/16/24	14	14	CI around mean	0.00519	0.04	Standard	No Exceedance
52	UA	E005	Mercury, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
52	UA	E005	Molybdenum, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0107	0.1	Standard	No Exceedance
52	UA	E005	pH (field)	SU	02/24/21 - 04/16/24	14	0	CI around mean	7.0/7.3	6.5/9.0	Standard/Standard	No Exceedance
52	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 04/16/24	14	0	CI around mean	0.429	5	Standard	No Exceedance
52	UA	E005	Selenium, total	mg/L	02/24/21 - 04/16/24	14	93	CB around T-S line	0.001	0.05	Standard	No Exceedance
52	UA	E005	Sulfate, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	60.8	400	Standard	No Exceedance
52	UA	E005	Thallium, total	mg/L	02/24/21 - 04/16/24	14	93	CI around median	0.002	0.002	Standard	No Exceedance
52	UA	E005	Total Dissolved Solids	mg/L	02/24/21 - 04/16/24	13	0	CI around mean	447	1,620	Background	No Exceedance
54	UA	E005	Antimony, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.003	0.006	Standard	No Exceedance
54	UA	E005	Arsenic, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.010	Standard	No Exceedance
54	UA	E005	Barium, total	mg/L	02/24/21 - 04/16/24	14	0	CB around linear reg	0.0409	2.0	Standard	No Exceedance
54	UA	E005	Beryllium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
54	UA	E005	Boron, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.5	2	Standard	No Exceedance
54	UA	E005	Cadmium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
54	UA	E005	Chloride, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	78.4	435	Background	No Exceedance
54	UA	E005	Chromium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.005	0.1	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
54	UA	E005	Cobalt, total	mg/L	02/24/21 - 04/16/24	14	86	CI around median	0.001	0.0380	Background	No Exceedance
54	UA	E005	Fluoride, total	mg/L	02/24/21 - 04/16/24	14	7	CB around T-S line	-0.242	4.0	Standard	No Exceedance
54	UA	E005	Lead, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
54	UA	E005	Lithium, total	mg/L	02/24/21 - 04/16/24	14	0	CI around median	0.012	0.04	Standard	No Exceedance
54	UA	E005	Mercury, total	mg/L	02/24/21 - 04/16/24	14	93	CI around median	0.0002	0.002	Standard	No Exceedance
54	UA	E005	Molybdenum, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0217	0.1	Standard	No Exceedance
54	UA	E005	pH (field)	SU	02/24/21 - 04/16/24	14	0	CI around mean	7.0/7.4	6.5/9.0	Standard/Standard	No Exceedance
54	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 04/16/24	14	0	CI around mean	0.187	5	Standard	No Exceedance
54	UA	E005	Selenium, total	mg/L	02/24/21 - 04/16/24	14	50	CB around linear reg	0.00195	0.05	Standard	No Exceedance
54	UA	E005	Sulfate, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	77.4	400	Standard	No Exceedance
54	UA	E005	Thallium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
54	UA	E005	Total Dissolved Solids	mg/L	02/24/21 - 04/16/24	12	0	CI around mean	494	1,620	Background	No Exceedance

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

Notes:
Compliance Result:

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

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

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

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

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

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

FIGURES

BACKGROUND WELL
COMPLIANCE WELL
STAFF GAUGE
REGULATED UNIT (SUBJECT UNIT)
SITE FEATURE
LIMITS OF FINAL COVER
PROPERTY BOUNDARY

0 175 350
Feet

MONITORING WELL LOCATION MAP

EAST ASH POND
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\222285\MXD\845_Operating_Permit\Hennepin\GM\Figure 2-1_Proposed Monitoring Well Network.mxd

PROJECT: 169000XXX | DATED: 10/13/2021 | DESIGNER: HOTCALD

ATTACHMENTS

ATTACHMENT A
SUMMARY OF GROUNDWATER ELEVATION DATA
QUARTER 2, 2024

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

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
07	Background	04/15/2024	66.81	451.46
08	Background	04/15/2024	51.12	450.06
08D	Background	04/15/2024	51.58	449.83
12	Compliance	04/15/2024	48.75	449.86
13	Compliance	04/15/2024	48.72	449.92
16	Background	04/15/2024	51.76	449.75
17	Background	04/15/2024	55.09	452.21
46	Compliance	04/15/2024	48.95	449.97
47	Compliance	04/15/2024	53.22	449.60
52	Compliance	04/15/2024	51.33	449.77
54	Compliance	04/15/2024	50.63	449.74
XSG01	Water Level	04/15/2024	10.42	483.24
SG02	Water Level	04/16/2024	NA	449.00

Notes:
BMP = below measuring point
NA = not available/not applicable
NAVD88 = North American Vertical Datum of 1988

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 05/13/24 14:09:04

JOB DESCRIPTION

HEN-24Q2
HEN_845_803

JOB NUMBER

500-249028-8

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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05/13/24 14:09:04

Authorized for release by
Dirk Nelson, Project Management Assistant II
Dirk.Nelson@et.eurofinsus.com
(708)534-5200

Table of Contents

Case Narrative

Job ID: 500-249028-8 — Eurofins Chicago

Job Narrative
500-249028-8

Receipt
The samples were received on 04/16/24 11:25. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 3.3º C, 4.0º C, 4.2º C, 4.6º C, 4.8º C, 4.8º C, 5.2º C, 5.4º C and 5.6º C.

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Added to COC and logged in. HEN_TB1 (500-249028-25) and HEN_TB2 (500-249028-26)

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed for sample: HEN_02 (500-249028-13) COC received with sampling time of 1330. Field Data form stated sampling time was 1320. Per field sampler, correct sampling time is 1320.

Metals
Method 200.7 Rev 4.4: The initial low level calibration verification (ICVL) result for batch 765585 was above the 95-105% upper control limit. The affected analyte is: Li (107%). Sample results were below the reporting limit and have been reported as qualified data.

Method 6020B: The instrument blank for analytical batch 500-765372 contained Sodium greater than the reporting limit (RL), and were not reanalyzed because sample results were 10x greater than the concentration found in the blank. The data have been qualified and reported.

Method 6020B: The linear range check standard (LRC) for batch 765372 recovered low for Be. The high standard read back was within control limits. Sample results were below the high standard and have been qualified and reported. (LRC 500-765372/13)

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: HEN-24Q2

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_12 — Lab Sample ID: 500-249028-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.014		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00023	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.072		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.21		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	96		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	37		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.012		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0014	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	49	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	68		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	76		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	290		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	590		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.19		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	48.79				ft	1		Field Sampling	Total/NA
Field pH	7.25				SU	1		Field Sampling	Total/NA
Field Temperature	17.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	114.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.04				mg/L	1		Field Sampling	Total/NA
Specific Conductance	999				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.20				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_13 — Lab Sample ID: 500-249028-6

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	0.00037	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.053		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.24		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	92		0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00021	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	37		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.011		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.6		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0011	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_13 (Continued) — Lab Sample ID: 500-249028-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	51	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	71		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	76		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	270		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	570		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.19		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	48.82				ft	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Temperature	17.9				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	107.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.35				mg/L	1		Field Sampling	Total/NA
Specific Conductance	998				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.56				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_46 — Lab Sample ID: 500-249028-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.013		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.076		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.30		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	91		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0011	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Magnesium	35		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.015		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0014	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	53	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	66		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	79		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	270		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	530		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.21		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	48.96				ft	1		Field Sampling	Total/NA
Field pH	7.29				SU	1		Field Sampling	Total/NA
Field Temperature	16.9				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	151.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.63				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1320				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.92				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_47 — Lab Sample ID: 500-249028-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.011		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.092		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.26		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	100		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	31		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.024		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.9		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0040		0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	55	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	68		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	73		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	290		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	560		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.28		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.22				ft	1		Field Sampling	Total/NA
Field pH	7.09				SU	1		Field Sampling	Total/NA
Field Temperature	18.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	148.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.22				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1358				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.74				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_07 — Lab Sample ID: 500-249028-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0080		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.099		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.073		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	120		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0012	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0068		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	42		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.5		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	32	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	49		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	60		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	300		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	560		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_07 (Continued) — Lab Sample ID: 500-249028-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.13		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	66.82				ft	1		Field Sampling	Total/NA
Field pH	6.97				SU	1		Field Sampling	Total/NA
Field Temperature	12.8				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	154.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.12				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1036				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.24				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08 — Lab Sample ID: 500-249028-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.016		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.12		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.12		0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00050		0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	170		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0033		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00048	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	47		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	9.6		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	120	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	190		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	110		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	500		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1100		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.093	J	0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.23				ft	1		Field Sampling	Total/NA
Field pH	6.76				SU	1		Field Sampling	Total/NA
Field Temperature	14.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	166.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.30				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1879				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.55				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08&D — Lab Sample ID: 500-249028-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0094		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.12		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.099		0.050	0.013	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_08&D (Continued) — Lab Sample ID: 500-249028-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0011		0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	200		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0068		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00093		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	56		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	5.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	190	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	310		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	190		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	500		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1400		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.11		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.66				ft	1		Field Sampling	Total/NA
Field pH	6.72				SU	1		Field Sampling	Total/NA
Field Temperature	13.8				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	154.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.08				mg/L	1		Field Sampling	Total/NA
Specific Conductance	3232				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.49				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_16 — Lab Sample ID: 500-249028-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.059		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.084		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	73		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	25		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0062		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	3.4		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	41	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Mercury	0.000095	J	0.00020	0.000076	mg/L	1		7470A	Total/NA
Chloride	61		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	51		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	200		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	420		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.24		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.85				ft	1		Field Sampling	Total/NA
Field pH	7.41				SU	1		Field Sampling	Total/NA
Field Temperature	13.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	149.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.10				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_16 (Continued) — Lab Sample ID: 500-249028-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	1051				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.72				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_16_FD — Lab Sample ID: 500-249028-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0020	J ^1+	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.058		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.079		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	73		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	25		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0061		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	3.4		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	41	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	62		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	52		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	210		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	420		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.23		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.85				ft	1		Field Sampling	Total/NA
Field pH	7.41				SU	1		Field Sampling	Total/NA
Field Temperature	13.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	149.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.10				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1051				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.72				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_17 — Lab Sample ID: 500-249028-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0031	J ^1+	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.077		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.087		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	68		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	26		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0031	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	3.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	44	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	59		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	55		10	2.1	mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_17 (Continued) — Lab Sample ID: 500-249028-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	210		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	420		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.18		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.94				ft	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Temperature	14.8				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	154.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.42				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1053				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.22				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_52 — Lab Sample ID: 500-249028-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0046	J ^1+	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.078		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.44		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	81		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	26		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.017		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	5.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0024	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	66	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	70		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	71		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	250		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	540		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.31		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.45				ft	1		Field Sampling	Total/NA
Field pH	7.23				SU	1		Field Sampling	Total/NA
Field Temperature	18.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	133.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.36				mg/L	1		Field Sampling	Total/NA
Specific Conductance	946				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.70				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_54 — Lab Sample ID: 500-249028-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.29		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00024	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.056		0.0025	0.00073	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_54 (Continued) — Lab Sample ID: 500-249028-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.58		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	86		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	33		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.025		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	5.0		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0028		0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	61	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Mercury	0.0017		0.00020	0.000076	mg/L	1		7470A	Total/NA
Chloride	71		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	88		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	260		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	580		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.27		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	50.72				ft	1		Field Sampling	Total/NA
Field pH	7.31				SU	1		Field Sampling	Total/NA
Field Temperature	17.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	152.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1340				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.61				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_54_FD — Lab Sample ID: 500-249028-23

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	0.00023	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.056		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.57		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	88		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	33		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.026		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	5.1		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0029		0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	62	B ^2	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	71		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	89		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	260		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	560		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.27		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_54_FD (Continued) — Lab Sample ID: 500-249028-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	50.72				ft	1		Field Sampling	Total/NA
Field pH	7.31				SU	1		Field Sampling	Total/NA
Field Temperature	17.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	152.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1340				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.61				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_55 — Lab Sample ID: 500-249028-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	49.47				ft	1		Field Sampling	Total/NA

Client Sample ID: HEN_XSG01 — Lab Sample ID: 500-249028-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	10.42				ft	1		Field Sampling	Total/NA

Client Sample ID: HEN_YSG_ILRIVER — Lab Sample ID: 500-249028-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	19.85				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-249028-5	HEN_12	Water	04/15/24 18:15	04/16/24 11:25
500-249028-6	HEN_13	Water	04/15/24 17:25	04/16/24 11:25
500-249028-11	HEN_46	Water	04/15/24 18:00	04/16/24 11:25
500-249028-12	HEN_47	Water	04/15/24 17:10	04/16/24 11:25
500-249028-14	HEN_07	Water	04/16/24 10:05	04/16/24 16:30
500-249028-15	HEN_08	Water	04/16/24 11:00	04/16/24 16:30
500-249028-16	HEN_08&D	Water	04/16/24 10:10	04/16/24 16:30
500-249028-18	HEN_16	Water	04/16/24 11:00	04/16/24 16:30
500-249028-19	HEN_16_FD	Water	04/16/24 11:05	04/16/24 16:30
500-249028-20	HEN_17	Water	04/16/24 11:50	04/16/24 16:30
500-249028-21	HEN_52	Water	04/16/24 12:20	04/16/24 16:30
500-249028-22	HEN_54	Water	04/16/24 12:35	04/16/24 16:30
500-249028-23	HEN_54_FD	Water	04/16/24 12:35	04/16/24 16:30
500-249028-30	HEN_55	Water	04/15/24 10:10	04/30/24 11:09
500-249028-31	HEN_XSG01	Water	04/15/24 09:55	04/30/24 11:09
500-249028-32	HEN_YSG_ILRIVER	Water	04/15/24 11:45	04/30/24 11:09

Client Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_12
Date Collected: 04/15/24 18:15
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-5
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	**0.014**		0.0050	0.0020	mg/L		04/24/24 16:44	04/25/24 13:03	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		04/25/24 09:20	04/26/24 15:31	1
Arsenic	**0.00023**	**J**	0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 15:31	1
Barium	**0.072**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 15:31	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 15:31	1
Boron	**0.21**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 15:31	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 15:31	1
Calcium	**96**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 15:31	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 15:31	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 15:31	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 15:31	1
Magnesium	**37**		0.20	0.049	mg/L		04/25/24 09:20	04/26/24 15:31	1
Molybdenum	**0.012**		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 15:31	1
Potassium	**4.3**		0.50	0.11	mg/L		04/25/24 09:20	04/26/24 15:31	1
Selenium	**0.0014**	**J**	0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 15:31	1
Sodium	**49**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:20	04/26/24 15:31	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 15:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**68**		10	1.2	mg/L			05/06/24 15:05	10
Sulfate (EPA 300.0)	**76**		10	2.1	mg/L			05/06/24 15:05	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**290**		5.0	3.7	mg/L			04/29/24 13:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 13:50	1
Total Dissolved Solids (SM 2540C)	**590**		10	4.3	mg/L			04/16/24 21:36	1
Fluoride (SM 4500 F C)	**0.19**		0.10	0.056	mg/L			05/03/24 13:06	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**48.79**				ft			04/15/24 18:15	1
Field pH	**7.25**				SU			04/15/24 18:15	1
Field Temperature	**17.6**				Degrees C			04/15/24 18:15	1
Oxidation Reduction Potential	**114.1**				millivolts			04/15/24 18:15	1
Oxygen, Dissolved	**3.04**				mg/L			04/15/24 18:15	1
Specific Conductance	**999**				umhos/cm			04/15/24 18:15	1
Turbidity	**1.20**				NTU			04/15/24 18:15	1

Client Sample Results

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

Job ID: 500-249028-8
HEN-845-803
SDG: HEN_845_803

Client Sample ID: HEN_13
Date Collected: 04/15/24 17:25
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-6
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	**0.018**		0.0050	0.0020	mg/L		04/24/24 16:44	04/25/24 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 15:33	1
Arsenic	**0.00037**	**J**	0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 15:33	1
Barium	**0.053**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 15:33	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 15:33	1
Boron	**0.24**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 15:33	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 15:33	1
Calcium	**92**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 15:33	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 15:33	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 15:33	1
Lead	**0.00021**	**J**	0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 15:33	1
Magnesium	**37**		0.20	0.049	mg/L		04/25/24 09:20	04/26/24 15:33	1
Molybdenum	**0.011**		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 15:33	1
Potassium	**4.6**		0.50	0.11	mg/L		04/25/24 09:20	04/26/24 15:33	1
Selenium	**0.0011**	**J**	0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 15:33	1
Sodium	**51**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:20	04/26/24 15:33	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 15:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**71**		10	1.2	mg/L			05/06/24 15:20	10
Sulfate (EPA 300.0)	**76**		10	2.1	mg/L			05/06/24 15:20	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**270**		5.0	3.7	mg/L			04/29/24 13:59	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 13:59	1
Total Dissolved Solids (SM 2540C)	**570**		10	4.3	mg/L			04/16/24 21:38	1
Fluoride (SM 4500 F C)	**0.19**		0.10	0.056	mg/L			05/03/24 13:21	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**48.82**				ft			04/15/24 17:25	1
Field pH	**7.33**				SU			04/15/24 17:25	1
Field Temperature	**17.9**				Degrees C			04/15/24 17:25	1
Oxidation Reduction Potential	**107.1**				millivolts			04/15/24 17:25	1
Oxygen, Dissolved	**2.35**				mg/L			04/15/24 17:25	1
Specific Conductance	**998**				umhos/cm			04/15/24 17:25	1
Turbidity	**0.56**				NTU			04/15/24 17:25	1

Client Sample Results

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

Job ID: 500-249028-8
HEN-845-803
SDG: HEN_845_803

Client Sample ID: HEN_46
Date Collected: 04/15/24 18:00
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-11
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	**0.013**		0.0050	0.0020	mg/L		04/24/24 16:44	04/25/24 13:25	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		04/25/24 09:20	04/26/24 15:48	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 15:48	1
Barium	**0.076**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 15:48	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 15:48	1
Boron	**0.30**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 15:48	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 15:48	1
Calcium	**91**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 15:48	1
Chromium	**0.0011**	**J**	0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 15:48	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 15:48	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 15:48	1
Magnesium	**35**		0.20	0.049	mg/L		04/25/24 09:20	04/26/24 15:48	1
Molybdenum	**0.015**		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 15:48	1
Potassium	**4.3**		0.50	0.11	mg/L		04/25/24 09:20	04/26/24 15:48	1
Selenium	**0.0014**	**J**	0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 15:48	1
Sodium	**53**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:20	04/26/24 15:48	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 15:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**66**		10	1.2	mg/L			05/06/24 16:36	10
Sulfate (EPA 300.0)	**79**		10	2.1	mg/L			05/06/24 16:36	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**270**		5.0	3.7	mg/L			04/29/24 14:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 14:45	1
Total Dissolved Solids (SM 2540C)	**530**		10	4.3	mg/L			04/16/24 22:21	1
Fluoride (SM 4500 F C)	**0.21**		0.10	0.056	mg/L			05/01/24 15:22	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**48.96**				ft			04/15/24 18:00	1
Field pH	**7.29**				SU			04/15/24 18:00	1
Field Temperature	**16.9**				Degrees C			04/15/24 18:00	1
Oxidation Reduction Potential	**151.2**				millivolts			04/15/24 18:00	1
Oxygen, Dissolved	**2.63**				mg/L			04/15/24 18:00	1
Specific Conductance	**1320**				umhos/cm			04/15/24 18:00	1
Turbidity	**0.92**				NTU			04/15/24 18:00	1

Client Sample Results

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

Job ID: 500-249028-8
HEN-845-803
SDG: HEN_845_803

Client Sample ID: HEN_47

Date Collected: 04/15/24 17:10
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-12

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	**0.011**		0.0050	0.0020	mg/L		04/25/24 17:17	04/26/24 12:03	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		04/25/24 09:20	04/26/24 16:07	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:07	1
Barium	**0.092**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:07	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:07	1
Boron	**0.26**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:07	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:07	1
Calcium	**100**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:07	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:07	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:07	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:07	1
Magnesium	**31**		0.20	0.049	mg/L		04/25/24 09:20	04/26/24 16:07	1
Molybdenum	**0.024**		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:07	1
Potassium	**4.9**		0.50	0.11	mg/L		04/25/24 09:20	04/26/24 16:07	1
Selenium	**0.0040**		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:07	1
Sodium	**55**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:20	04/26/24 16:07	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**68**		10	1.2	mg/L			05/06/24 16:51	10
Sulfate (EPA 300.0)	**73**		10	2.1	mg/L			05/06/24 16:51	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**290**		5.0	3.7	mg/L			04/29/24 14:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 14:54	1
Total Dissolved Solids (SM 2540C)	**560**		10	4.3	mg/L			04/16/24 22:21	1
Fluoride (SM 4500 F C)	**0.28**		0.10	0.056	mg/L			05/01/24 15:27	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.22**				ft			04/15/24 17:10	1
Field pH	**7.09**				SU			04/15/24 17:10	1
Field Temperature	**18.1**				Degrees C			04/15/24 17:10	1
Oxidation Reduction Potential	**148.4**				millivolts			04/15/24 17:10	1
Oxygen, Dissolved	**2.22**				mg/L			04/15/24 17:10	1
Specific Conductance	**1358**				umhos/cm			04/15/24 17:10	1
Turbidity	**0.74**				NTU			04/15/24 17:10	1

Client Sample Results

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

Job ID: 500-249028-8
HEN-845-803
SDG: HEN_845_803

Client Sample ID: HEN_07

Date Collected: 04/16/24 10:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0080**		0.0050	0.0020	mg/L		04/25/24 17:17	04/26/24 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 16:09	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:09	1
Barium	**0.099**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:09	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:09	1
Boron	**0.073**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:09	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:09	1
Calcium	**120**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:09	1
Chromium	**0.0012**	**J**	0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:09	1
Cobalt	**0.0068**		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:09	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:09	1
Magnesium	**42**		0.20	0.049	mg/L		04/25/24 09:20	04/26/24 16:09	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:09	1
Potassium	**2.5**		0.50	0.11	mg/L		04/25/24 09:20	04/26/24 16:09	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:09	1
Sodium	**32**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:20	04/26/24 16:09	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00050		0.00050	0.00019	mg/L		04/29/24 10:55	04/30/24 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**49**		10	1.2	mg/L			05/06/24 17:36	10
Sulfate (EPA 300.0)	**60**		10	2.1	mg/L			05/06/24 17:36	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**300**		5.0	3.7	mg/L			04/29/24 17:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 17:21	1
Total Dissolved Solids (SM 2540C)	**560**		10	4.3	mg/L			04/18/24 03:34	1
Fluoride (SM 4500 F C)	**0.13**		0.10	0.056	mg/L			05/03/24 13:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**66.82**				ft			04/16/24 10:05	1
Field pH	**6.97**				SU			04/16/24 10:05	1
Field Temperature	**12.8**				Degrees C			04/16/24 10:05	1
Oxidation Reduction Potential	**154.0**				millivolts			04/16/24 10:05	1
Oxygen, Dissolved	**5.12**				mg/L			04/16/24 10:05	1
Specific Conductance	**1036**				umhos/cm			04/16/24 10:05	1
Turbidity	**2.24**				NTU			04/16/24 10:05	1

Client Sample Results

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

Job ID: 500-249028-8
HEN-845-803
SDG: HEN_845_803

Client Sample ID: HEN_08

Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.016**		0.0050	0.0020	mg/L		04/25/24 17:17	04/26/24 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 16:11	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:11	1
Barium	**0.12**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:11	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:11	1
Boron	**0.12**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:11	1
Cadmium	**0.00050**		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:11	1
Calcium	**170**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:11	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:11	1
Cobalt	**0.0033**		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:11	1
Lead	**0.00048**	**J**	0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:11	1
Magnesium	**47**		0.20	0.049	mg/L		04/25/24 09:20	04/26/24 16:11	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:11	1
Potassium	**9.6**		0.50	0.11	mg/L		04/25/24 09:20	04/26/24 16:11	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:11	1
Sodium	**120**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:20	04/26/24 16:11	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**190**		10	1.2	mg/L			05/06/24 17:52	10
Sulfate (EPA 300.0)	**110**		10	2.1	mg/L			05/06/24 17:52	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**500**		5.0	3.7	mg/L			04/29/24 17:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 17:30	1
Total Dissolved Solids (SM 2540C)	**1100**		10	4.3	mg/L			04/18/24 03:37	1
Fluoride (SM 4500 F C)	**0.093**	**J**	0.10	0.056	mg/L			05/03/24 13:49	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.23**				ft			04/16/24 11:00	1
Field pH	**6.76**				SU			04/16/24 11:00	1
Field Temperature	**14.6**				Degrees C			04/16/24 11:00	1
Oxidation Reduction Potential	**166.9**				millivolts			04/16/24 11:00	1
Oxygen, Dissolved	**2.30**				mg/L			04/16/24 11:00	1
Specific Conductance	**1879**				umhos/cm			04/16/24 11:00	1
Turbidity	**0.55**				NTU			04/16/24 11:00	1

Client Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_08&D
Date Collected: 04/16/24 10:10
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0094**		0.0050	0.0020	mg/L		04/26/24 08:48	04/30/24 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 16:13	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:13	1
Barium	**0.12**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:13	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:13	1
Boron	**0.099**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:13	1
Cadmium	**0.0011**		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:13	1
Calcium	**200**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:13	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:13	1
Cobalt	**0.0068**		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:13	1
Lead	**0.00093**		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:13	1
Magnesium	**56**		0.20	0.049	mg/L		04/25/24 09:20	04/26/24 16:13	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:13	1
Potassium	**5.2**		0.50	0.11	mg/L		04/25/24 09:20	04/26/24 16:13	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:13	1
Sodium	**190**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:20	04/26/24 16:13	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**310**		10	1.2	mg/L			05/06/24 18:07	10
Sulfate (EPA 300.0)	**190**		10	2.1	mg/L			05/06/24 18:07	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**500**		5.0	3.7	mg/L			04/29/24 17:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 17:40	1
Total Dissolved Solids (SM 2540C)	**1400**		10	4.3	mg/L			04/18/24 03:39	1
Fluoride (SM 4500 F C)	**0.11**		0.10	0.056	mg/L			05/03/24 13:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.66**				ft			04/16/24 10:10	1
Field pH	**6.72**				SU			04/16/24 10:10	1
Field Temperature	**13.8**				Degrees C			04/16/24 10:10	1
Oxidation Reduction Potential	**154.4**				millivolts			04/16/24 10:10	1
Oxygen, Dissolved	**1.08**				mg/L			04/16/24 10:10	1
Specific Conductance	**3232**				umhos/cm			04/16/24 10:10	1
Turbidity	**3.49**				NTU			04/16/24 10:10	1

Client Sample Results

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

Client Sample ID: HEN_16
Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-18
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	^1+	0.0050	0.0020	mg/L		04/26/24 08:48	04/29/24 17:29	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		04/25/24 09:20	04/26/24 16:17	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:17	1
Barium	**0.059**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:17	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:17	1
Boron	**0.084**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:17	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:17	1
Calcium	**73**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:17	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:17	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:17	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:17	1
Magnesium	**25**		0.20	0.049	mg/L		04/25/24 09:20	04/26/24 16:17	1
Molybdenum	**0.0062**		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:17	1
Potassium	**3.4**		0.50	0.11	mg/L		04/25/24 09:20	04/26/24 16:17	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:17	1
Sodium	**41**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:20	04/26/24 16:17	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000095**	**J**	0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**61**		10	1.2	mg/L			05/06/24 19:38	10
Sulfate (EPA 300.0)	**51**		10	2.1	mg/L			05/06/24 19:38	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**200**		5.0	3.7	mg/L			04/29/24 18:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 18:00	1
Total Dissolved Solids (SM 2540C)	**420**		10	4.3	mg/L			04/18/24 22:48	1
Fluoride (SM 4500 F C)	**0.24**		0.10	0.056	mg/L			05/01/24 16:04	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.85**				ft			04/16/24 11:00	1
Field pH	**7.41**				SU			04/16/24 11:00	1
Field Temperature	**13.5**				Degrees C			04/16/24 11:00	1
Oxidation Reduction Potential	**149.2**				millivolts			04/16/24 11:00	1
Oxygen, Dissolved	**7.10**				mg/L			04/16/24 11:00	1
Specific Conductance	**1051**				umhos/cm			04/16/24 11:00	1
Turbidity	**0.72**				NTU			04/16/24 11:00	1

Client Sample Results

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

Job ID: 500-249028-8
HEN-845-803
SDG: HEN_845_803

Client Sample ID: HEN_16_FD

Date Collected: 04/16/24 11:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-19

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	**0.0020**	**J ^1+**	0.0050	0.0020	mg/L		04/26/24 08:48	04/29/24 17:34	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		04/25/24 09:20	04/26/24 16:19	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:19	1
Barium	**0.058**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:19	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:19	1
Boron	**0.079**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:19	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:19	1
Calcium	**73**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:19	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:19	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:19	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:19	1
Magnesium	**25**		0.20	0.049	mg/L		04/25/24 09:20	04/26/24 16:19	1
Molybdenum	**0.0061**		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:19	1
Potassium	**3.4**		0.50	0.11	mg/L		04/25/24 09:20	04/26/24 16:19	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:19	1
Sodium	**41**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:20	04/26/24 16:19	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**62**		10	1.2	mg/L			05/06/24 20:54	10
Sulfate (EPA 300.0)	**52**		10	2.1	mg/L			05/06/24 20:54	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**210**		5.0	3.7	mg/L			04/29/24 18:11	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 18:11	1
Total Dissolved Solids (SM 2540C)	**420**		10	4.3	mg/L			04/18/24 22:50	1
Fluoride (SM 4500 F C)	**0.23**		0.10	0.056	mg/L			05/01/24 16:08	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.85**				ft			04/16/24 11:05	1
Field pH	**7.41**				SU			04/16/24 11:05	1
Field Temperature	**13.5**				Degrees C			04/16/24 11:05	1
Oxidation Reduction Potential	**149.2**				millivolts			04/16/24 11:05	1
Oxygen, Dissolved	**7.10**				mg/L			04/16/24 11:05	1
Specific Conductance	**1051**				umhos/cm			04/16/24 11:05	1
Turbidity	**0.72**				NTU			04/16/24 11:05	1

Client Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_17

Date Collected: 04/16/24 11:50
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-20

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	**0.0031**	**J ^1+**	0.0050	0.0020	mg/L		04/26/24 08:48	04/29/24 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 16:22	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:22	1
Barium	**0.077**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:22	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:22	1
Boron	**0.087**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:22	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:22	1
Calcium	**68**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:22	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:22	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:22	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:22	1
Magnesium	**26**		0.20	0.049	mg/L		04/25/24 09:20	04/26/24 16:22	1
Molybdenum	**0.0031**	**J**	0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:22	1
Potassium	**3.3**		0.50	0.11	mg/L		04/25/24 09:20	04/26/24 16:22	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:22	1
Sodium	**44**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:20	04/26/24 16:22	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**59**		10	1.2	mg/L			05/06/24 21:09	10
Sulfate (EPA 300.0)	**55**		10	2.1	mg/L			05/06/24 21:09	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**210**		5.0	3.7	mg/L			04/29/24 18:20	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 18:20	1
Total Dissolved Solids (SM 2540C)	**420**		10	4.3	mg/L			04/18/24 22:53	1
Fluoride (SM 4500 F C)	**0.18**		0.10	0.056	mg/L			05/01/24 16:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.94**				ft			04/16/24 11:50	1
Field pH	**7.33**				SU			04/16/24 11:50	1
Field Temperature	**14.8**				Degrees C			04/16/24 11:50	1
Oxidation Reduction Potential	**154.2**				millivolts			04/16/24 11:50	1
Oxygen, Dissolved	**7.42**				mg/L			04/16/24 11:50	1
Specific Conductance	**1053**				umhos/cm			04/16/24 11:50	1
Turbidity	**6.22**				NTU			04/16/24 11:50	1

Client Sample Results

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

Job ID: 500-249028-8
HEN-845-803
SDG: HEN_845_803

Client Sample ID: HEN_52

Date Collected: 04/16/24 12:20
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-21

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	**0.0046**	**J ^1+**	0.0050	0.0020	mg/L		04/26/24 08:48	04/29/24 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:23	04/26/24 14:16	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:23	04/26/24 14:16	1
Barium	**0.078**		0.0025	0.00073	mg/L		04/25/24 09:23	04/26/24 14:16	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:23	04/26/24 14:16	1
Boron	**0.44**		0.050	0.013	mg/L		04/25/24 09:23	04/29/24 13:02	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:23	04/26/24 14:16	1
Calcium	**81**		0.20	0.044	mg/L		04/25/24 09:23	04/26/24 14:16	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:23	04/26/24 14:16	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:23	04/26/24 14:16	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:23	04/26/24 14:16	1
Magnesium	**26**		0.20	0.049	mg/L		04/25/24 09:23	04/26/24 14:16	1
Molybdenum	**0.017**		0.0050	0.0025	mg/L		04/25/24 09:23	04/26/24 14:16	1
Potassium	**5.2**		0.50	0.11	mg/L		04/25/24 09:23	04/26/24 14:16	1
Selenium	**0.0024**	**J**	0.0025	0.00098	mg/L		04/25/24 09:23	04/26/24 14:16	1
Sodium	**66**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:23	04/26/24 14:16	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:23	04/26/24 14:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**70**		10	1.2	mg/L			05/06/24 21:24	10
Sulfate (EPA 300.0)	**71**		10	2.1	mg/L			05/06/24 21:24	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**250**		5.0	3.7	mg/L			04/29/24 18:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 18:29	1
Total Dissolved Solids (SM 2540C)	**540**		10	4.3	mg/L			04/18/24 22:55	1
Fluoride (SM 4500 F C)	**0.31**		0.10	0.056	mg/L			05/01/24 16:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.45**				ft			04/16/24 12:20	1
Field pH	**7.23**				SU			04/16/24 12:20	1
Field Temperature	**18.4**				Degrees C			04/16/24 12:20	1
Oxidation Reduction Potential	**133.6**				millivolts			04/16/24 12:20	1
Oxygen, Dissolved	**2.36**				mg/L			04/16/24 12:20	1
Specific Conductance	**946**				umhos/cm			04/16/24 12:20	1
Turbidity	**1.70**				NTU			04/16/24 12:20	1

Client Sample Results

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

Job ID: 500-249028-8
HEN-845-803
SDG: HEN_845_803

Client Sample ID: HEN_54
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-22
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	**0.29**		0.0050	0.0020	mg/L		04/26/24 08:48	04/30/24 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:23	04/26/24 14:19	1
Arsenic	**0.00024**	**J**	0.0010	0.00023	mg/L		04/25/24 09:23	04/26/24 14:19	1
Barium	**0.056**		0.0025	0.00073	mg/L		04/25/24 09:23	04/26/24 14:19	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:23	04/26/24 14:19	1
Boron	**0.58**		0.050	0.013	mg/L		04/25/24 09:23	04/29/24 13:04	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:23	04/26/24 14:19	1
Calcium	**86**		0.20	0.044	mg/L		04/25/24 09:23	04/26/24 14:19	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:23	04/26/24 14:19	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:23	04/26/24 14:19	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:23	04/26/24 14:19	1
Magnesium	**33**		0.20	0.049	mg/L		04/25/24 09:23	04/26/24 14:19	1
Molybdenum	**0.025**		0.0050	0.0025	mg/L		04/25/24 09:23	04/26/24 14:19	1
Potassium	**5.0**		0.50	0.11	mg/L		04/25/24 09:23	04/26/24 14:19	1
Selenium	**0.0028**		0.0025	0.00098	mg/L		04/25/24 09:23	04/26/24 14:19	1
Sodium	**61**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:23	04/26/24 14:19	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:23	04/26/24 14:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0017**		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 07:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**71**		10	1.2	mg/L			05/06/24 21:39	10
Sulfate (EPA 300.0)	**88**		10	2.1	mg/L			05/06/24 21:39	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**		5.0	3.7	mg/L			04/29/24 18:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 18:39	1
Total Dissolved Solids (SM 2540C)	**580**		10	4.3	mg/L			04/18/24 22:58	1
Fluoride (SM 4500 F C)	**0.27**		0.10	0.056	mg/L			05/01/24 16:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**50.72**				ft			04/16/24 12:35	1
Field pH	**7.31**				SU			04/16/24 12:35	1
Field Temperature	**17.7**				Degrees C			04/16/24 12:35	1
Oxidation Reduction Potential	**152.5**				millivolts			04/16/24 12:35	1
Oxygen, Dissolved	**1.07**				mg/L			04/16/24 12:35	1
Specific Conductance	**1340**				umhos/cm			04/16/24 12:35	1
Turbidity	**1.61**				NTU			04/16/24 12:35	1

Client Sample Results

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

Job ID: 500-249028-8
HEN-845-803
SDG: HEN_845_803

Client Sample ID: HEN_54_FD

Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-23

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		04/26/24 08:48	04/30/24 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:23	04/26/24 14:21	1
Arsenic	**0.00023**	**J**	0.0010	0.00023	mg/L		04/25/24 09:23	04/26/24 14:21	1
Barium	**0.056**		0.0025	0.00073	mg/L		04/25/24 09:23	04/26/24 14:21	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:23	04/26/24 14:21	1
Boron	**0.57**		0.050	0.013	mg/L		04/25/24 09:23	04/29/24 13:07	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:23	04/26/24 14:21	1
Calcium	**88**		0.20	0.044	mg/L		04/25/24 09:23	04/26/24 14:21	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:23	04/26/24 14:21	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:23	04/26/24 14:21	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:23	04/26/24 14:21	1
Magnesium	**33**		0.20	0.049	mg/L		04/25/24 09:23	04/26/24 14:21	1
Molybdenum	**0.026**		0.0050	0.0025	mg/L		04/25/24 09:23	04/26/24 14:21	1
Potassium	**5.1**		0.50	0.11	mg/L		04/25/24 09:23	04/26/24 14:21	1
Selenium	**0.0029**		0.0025	0.00098	mg/L		04/25/24 09:23	04/26/24 14:21	1
Sodium	**62**	**B ^2**	0.20	0.077	mg/L		04/25/24 09:23	04/26/24 14:21	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:23	04/26/24 14:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 07:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**71**		10	1.2	mg/L			05/06/24 21:54	10
Sulfate (EPA 300.0)	**89**		10	2.1	mg/L			05/06/24 21:54	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**		5.0	3.7	mg/L			04/29/24 18:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			04/29/24 18:48	1
Total Dissolved Solids (SM 2540C)	**560**		10	4.3	mg/L			04/18/24 23:01	1
Fluoride (SM 4500 F C)	**0.27**		0.10	0.056	mg/L			05/01/24 16:37	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**50.72**				ft			04/16/24 12:35	1
Field pH	**7.31**				SU			04/16/24 12:35	1
Field Temperature	**17.7**				Degrees C			04/16/24 12:35	1
Oxidation Reduction Potential	**152.5**				millivolts			04/16/24 12:35	1
Oxygen, Dissolved	**1.07**				mg/L			04/16/24 12:35	1
Specific Conductance	**1340**				umhos/cm			04/16/24 12:35	1
Turbidity	**1.61**				NTU			04/16/24 12:35	1

Client Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_55

Date Collected: 04/15/24 10:10
Date Received: 04/30/24 11:09

Lab Sample ID: 500-249028-30

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)	49.47				ft			04/15/24 10:10	1

Client Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_XSG01

Date Collected: 04/15/24 09:55
Date Received: 04/30/24 11:09

Lab Sample ID: 500-249028-31

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)	10.42				ft			04/15/24 09:55	1

Client Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_YSG_ILRIVER

Lab Sample ID: 500-249028-32
Date Collected: 04/15/24 11:45
Matrix: Water
Date Received: 04/30/24 11:09

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	19.85				ft			04/15/24 11:45	1

Definitions/Glossary

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
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: HEN-24Q2

Job ID: 500-249028-8
SDG: HEN_845_803

Metals

Prep Batch: 764775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total Recoverable	Water	200.7	
500-249028-6	HEN_13	Total Recoverable	Water	200.7	
500-249028-11	HEN_46	Total Recoverable	Water	200.7	
MB 500-764775/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-764775/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-249028-11 MS	HEN_46	Total Recoverable	Water	200.7	
500-249028-11 DU	HEN_46	Total Recoverable	Water	200.7	

Prep Batch: 764893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total Recoverable	Water	3005A	
500-249028-6	HEN_13	Total Recoverable	Water	3005A	
500-249028-11	HEN_46	Total Recoverable	Water	3005A	
500-249028-12	HEN_47	Total Recoverable	Water	3005A	
500-249028-14	HEN_07	Total Recoverable	Water	3005A	
500-249028-15	HEN_08	Total Recoverable	Water	3005A	
500-249028-16	HEN_08&D	Total Recoverable	Water	3005A	
500-249028-18	HEN_16	Total Recoverable	Water	3005A	
500-249028-19	HEN_16_FD	Total Recoverable	Water	3005A	
500-249028-20	HEN_17	Total Recoverable	Water	3005A	
MB 500-764893/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-764893/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 764894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-21	HEN_52	Total Recoverable	Water	3005A	
500-249028-22	HEN_54	Total Recoverable	Water	3005A	
500-249028-23	HEN_54_FD	Total Recoverable	Water	3005A	
MB 500-764894/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-764894/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 764960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total Recoverable	Water	200.7 Rev 4.4	764775
500-249028-6	HEN_13	Total Recoverable	Water	200.7 Rev 4.4	764775
500-249028-11	HEN_46	Total Recoverable	Water	200.7 Rev 4.4	764775
MB 500-764775/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	764775
LCS 500-764775/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	764775
500-249028-11 MS	HEN_46	Total Recoverable	Water	200.7 Rev 4.4	764775
500-249028-11 DU	HEN_46	Total Recoverable	Water	200.7 Rev 4.4	764775

Prep Batch: 765021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-12	HEN_47	Total Recoverable	Water	200.7	
500-249028-14	HEN_07	Total Recoverable	Water	200.7	
500-249028-15	HEN_08	Total Recoverable	Water	200.7	
MB 500-765021/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-765021/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-249028-15 MS	HEN_08	Total Recoverable	Water	200.7	
500-249028-15 DU	HEN_08	Total Recoverable	Water	200.7	

QC Association Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

Metals

Prep Batch: 765119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-16	HEN_08&D	Total Recoverable	Water	200.7	
500-249028-18	HEN_16	Total Recoverable	Water	200.7	
500-249028-19	HEN_16_FD	Total Recoverable	Water	200.7	
500-249028-20	HEN_17	Total Recoverable	Water	200.7	
500-249028-21	HEN_52	Total Recoverable	Water	200.7	
500-249028-22	HEN_54	Total Recoverable	Water	200.7	
500-249028-23	HEN_54_FD	Total Recoverable	Water	200.7	
MB 500-765119/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-765119/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 765188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-12	HEN_47	Total Recoverable	Water	200.7 Rev 4.4	765021
500-249028-14	HEN_07	Total Recoverable	Water	200.7 Rev 4.4	765021
500-249028-15	HEN_08	Total Recoverable	Water	200.7 Rev 4.4	765021
MB 500-765021/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	765021
LCS 500-765021/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	765021
500-249028-15 MS	HEN_08	Total Recoverable	Water	200.7 Rev 4.4	765021
500-249028-15 DU	HEN_08	Total Recoverable	Water	200.7 Rev 4.4	765021

Analysis Batch: 765372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total Recoverable	Water	6020B	764893
500-249028-6	HEN_13	Total Recoverable	Water	6020B	764893
500-249028-11	HEN_46	Total Recoverable	Water	6020B	764893
500-249028-12	HEN_47	Total Recoverable	Water	6020B	764893
500-249028-14	HEN_07	Total Recoverable	Water	6020B	764893
500-249028-15	HEN_08	Total Recoverable	Water	6020B	764893
500-249028-16	HEN_08&D	Total Recoverable	Water	6020B	764893
500-249028-18	HEN_16	Total Recoverable	Water	6020B	764893
500-249028-19	HEN_16_FD	Total Recoverable	Water	6020B	764893
500-249028-20	HEN_17	Total Recoverable	Water	6020B	764893
500-249028-21	HEN_52	Total Recoverable	Water	6020B	764894
500-249028-22	HEN_54	Total Recoverable	Water	6020B	764894
500-249028-23	HEN_54_FD	Total Recoverable	Water	6020B	764894
MB 500-764893/1-A	Method Blank	Total Recoverable	Water	6020B	764893
MB 500-764894/1-A	Method Blank	Total Recoverable	Water	6020B	764894
LCS 500-764893/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764893
LCS 500-764894/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764894

Prep Batch: 765382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	7470A	
500-249028-6	HEN_13	Total/NA	Water	7470A	
500-249028-11	HEN_46	Total/NA	Water	7470A	
500-249028-12	HEN_47	Total/NA	Water	7470A	
500-249028-14	HEN_07	Total/NA	Water	7470A	
500-249028-15	HEN_08	Total/NA	Water	7470A	
500-249028-16	HEN_08&D	Total/NA	Water	7470A	
500-249028-18	HEN_16	Total/NA	Water	7470A	
500-249028-19	HEN_16_FD	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 765382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-20	HEN_17	Total/NA	Water	7470A	
500-249028-21	HEN_52	Total/NA	Water	7470A	
MB 500-765382/11-A	Method Blank	Total/NA	Water	7470A	
LCS 500-765382/12-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 765389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-22	HEN_54	Total/NA	Water	7470A	
500-249028-23	HEN_54_FD	Total/NA	Water	7470A	
MB 500-765389/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-765389/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 765568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-21	HEN_52	Total Recoverable	Water	6020B	764894
500-249028-22	HEN_54	Total Recoverable	Water	6020B	764894
500-249028-23	HEN_54_FD	Total Recoverable	Water	6020B	764894
MB 500-764894/1-A	Method Blank	Total Recoverable	Water	6020B	764894
LCS 500-764894/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764894

Analysis Batch: 765585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-18	HEN_16	Total Recoverable	Water	200.7 Rev 4.4	765119
500-249028-19	HEN_16_FD	Total Recoverable	Water	200.7 Rev 4.4	765119
500-249028-20	HEN_17	Total Recoverable	Water	200.7 Rev 4.4	765119
500-249028-21	HEN_52	Total Recoverable	Water	200.7 Rev 4.4	765119

Analysis Batch: 765626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	7470A	765382
500-249028-6	HEN_13	Total/NA	Water	7470A	765382
500-249028-11	HEN_46	Total/NA	Water	7470A	765382
500-249028-12	HEN_47	Total/NA	Water	7470A	765382
500-249028-14	HEN_07	Total/NA	Water	7470A	765382
500-249028-15	HEN_08	Total/NA	Water	7470A	765382
500-249028-16	HEN_08&D	Total/NA	Water	7470A	765382
500-249028-18	HEN_16	Total/NA	Water	7470A	765382
500-249028-19	HEN_16_FD	Total/NA	Water	7470A	765382
500-249028-20	HEN_17	Total/NA	Water	7470A	765382
500-249028-21	HEN_52	Total/NA	Water	7470A	765382
500-249028-22	HEN_54	Total/NA	Water	7470A	765389
500-249028-23	HEN_54_FD	Total/NA	Water	7470A	765389
MB 500-765382/11-A	Method Blank	Total/NA	Water	7470A	765382
MB 500-765389/12-A	Method Blank	Total/NA	Water	7470A	765389
LCS 500-765382/12-A	Lab Control Sample	Total/NA	Water	7470A	765382
LCS 500-765389/13-A	Lab Control Sample	Total/NA	Water	7470A	765389

Analysis Batch: 765664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-16	HEN_08&D	Total Recoverable	Water	200.7 Rev 4.4	765119
500-249028-22	HEN_54	Total Recoverable	Water	200.7 Rev 4.4	765119

QC Association Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

Metals (Continued)

Analysis Batch: 765664 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-23	HEN_54_FD	Total Recoverable	Water	200.7 Rev 4.4	765119
MB 500-765119/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	765119
LCS 500-765119/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	765119

General Chemistry

Analysis Batch: 763450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	SM 2540C	
500-249028-6	HEN_13	Total/NA	Water	SM 2540C	
MB 500-763450/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-763450/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 763451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-11	HEN_46	Total/NA	Water	SM 2540C	
500-249028-12	HEN_47	Total/NA	Water	SM 2540C	
MB 500-763451/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-763451/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-249028-11 DU	HEN_46	Total/NA	Water	SM 2540C	

Analysis Batch: 763630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-14	HEN_07	Total/NA	Water	SM 2540C	
500-249028-15	HEN_08	Total/NA	Water	SM 2540C	
500-249028-16	HEN_08&D	Total/NA	Water	SM 2540C	
MB 500-763630/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-763630/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 763874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-18	HEN_16	Total/NA	Water	SM 2540C	
500-249028-19	HEN_16_FD	Total/NA	Water	SM 2540C	
500-249028-20	HEN_17	Total/NA	Water	SM 2540C	
500-249028-21	HEN_52	Total/NA	Water	SM 2540C	
500-249028-22	HEN_54	Total/NA	Water	SM 2540C	
500-249028-23	HEN_54_FD	Total/NA	Water	SM 2540C	
MB 500-763874/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-763874/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 765622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	SM 2320B	
500-249028-6	HEN_13	Total/NA	Water	SM 2320B	
500-249028-11	HEN_46	Total/NA	Water	SM 2320B	
500-249028-12	HEN_47	Total/NA	Water	SM 2320B	
500-249028-14	HEN_07	Total/NA	Water	SM 2320B	
500-249028-15	HEN_08	Total/NA	Water	SM 2320B	
500-249028-16	HEN_08&D	Total/NA	Water	SM 2320B	
500-249028-18	HEN_16	Total/NA	Water	SM 2320B	
500-249028-19	HEN_16_FD	Total/NA	Water	SM 2320B	

QC Association Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

General Chemistry (Continued)

Analysis Batch: 765622 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-20	HEN_17	Total/NA	Water	SM 2320B	
500-249028-21	HEN_52	Total/NA	Water	SM 2320B	
500-249028-22	HEN_54	Total/NA	Water	SM 2320B	
500-249028-23	HEN_54_FD	Total/NA	Water	SM 2320B	
MB 500-765622/28	Method Blank	Total/NA	Water	SM 2320B	
MB 500-765622/78	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-765622/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-765622/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 765957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-11	HEN_46	Total/NA	Water	SM 4500 F C	
500-249028-12	HEN_47	Total/NA	Water	SM 4500 F C	
500-249028-18	HEN_16	Total/NA	Water	SM 4500 F C	
500-249028-19	HEN_16_FD	Total/NA	Water	SM 4500 F C	
500-249028-20	HEN_17	Total/NA	Water	SM 4500 F C	
500-249028-21	HEN_52	Total/NA	Water	SM 4500 F C	
500-249028-22	HEN_54	Total/NA	Water	SM 4500 F C	
500-249028-23	HEN_54_FD	Total/NA	Water	SM 4500 F C	
MB 500-765957/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-765957/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-765957/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-765957/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 766360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	300.0	
500-249028-6	HEN_13	Total/NA	Water	300.0	
500-249028-11	HEN_46	Total/NA	Water	300.0	
500-249028-12	HEN_47	Total/NA	Water	300.0	
500-249028-14	HEN_07	Total/NA	Water	300.0	
500-249028-15	HEN_08	Total/NA	Water	300.0	
500-249028-16	HEN_08&D	Total/NA	Water	300.0	
500-249028-18	HEN_16	Total/NA	Water	300.0	
500-249028-19	HEN_16_FD	Total/NA	Water	300.0	
500-249028-20	HEN_17	Total/NA	Water	300.0	
500-249028-21	HEN_52	Total/NA	Water	300.0	
500-249028-22	HEN_54	Total/NA	Water	300.0	
500-249028-23	HEN_54_FD	Total/NA	Water	300.0	
MB 500-766360/3	Method Blank	Total/NA	Water	300.0	
MB 500-766360/33	Method Blank	Total/NA	Water	300.0	
LCS 500-766360/34	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-766360/4	Lab Control Sample	Total/NA	Water	300.0	
500-249028-18 MS	HEN_16	Total/NA	Water	300.0	
500-249028-18 MSD	HEN_16	Total/NA	Water	300.0	

Analysis Batch: 766368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	SM 4500 F C	
500-249028-6	HEN_13	Total/NA	Water	SM 4500 F C	
500-249028-14	HEN_07	Total/NA	Water	SM 4500 F C	

QC Association Summary

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

Job ID: 500-249028-8
SDG: HEN_845_803

General Chemistry (Continued)

Analysis Batch: 766368 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-15	HEN_08	Total/NA	Water	SM 4500 F C	
500-249028-16	HEN_08&D	Total/NA	Water	SM 4500 F C	
MB 500-766368/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-766368/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 765661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	Field Sampling	
500-249028-6	HEN_13	Total/NA	Water	Field Sampling	
500-249028-11	HEN_46	Total/NA	Water	Field Sampling	
500-249028-12	HEN_47	Total/NA	Water	Field Sampling	
500-249028-14	HEN_07	Total/NA	Water	Field Sampling	
500-249028-15	HEN_08	Total/NA	Water	Field Sampling	
500-249028-16	HEN_08&D	Total/NA	Water	Field Sampling	
500-249028-18	HEN_16	Total/NA	Water	Field Sampling	
500-249028-19	HEN_16_FD	Total/NA	Water	Field Sampling	
500-249028-20	HEN_17	Total/NA	Water	Field Sampling	
500-249028-21	HEN_52	Total/NA	Water	Field Sampling	
500-249028-22	HEN_54	Total/NA	Water	Field Sampling	
500-249028-23	HEN_54_FD	Total/NA	Water	Field Sampling	

Analysis Batch: 765820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-30	HEN_55	Total/NA	Water	Field Sampling	
500-249028-31	HEN_XSG01	Total/NA	Water	Field Sampling	
500-249028-32	HEN_YSG_ILRIVER	Total/NA	Water	Field Sampling	

QC Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-764775/1-A
Matrix: Water
Analysis Batch: 764960

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		04/24/24 16:44	04/25/24 12:30	1

Lab Sample ID: LCS 500-764775/2-A
Matrix: Water
Analysis Batch: 764960

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.266		mg/L		106	85 - 115

Lab Sample ID: 500-249028-11 MS
Matrix: Water
Analysis Batch: 764960

Client Sample ID: HEN_46
Prep Type: Total Recoverable
Prep Batch: 764775

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.013		0.250	0.293		mg/L		112	70 - 130

Lab Sample ID: 500-249028-11 DU
Matrix: Water
Analysis Batch: 764960

Client Sample ID: HEN_46
Prep Type: Total Recoverable
Prep Batch: 764775

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.013		0.0134		mg/L		6	20

Lab Sample ID: MB 500-765021/1-A
Matrix: Water
Analysis Batch: 765188

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 765021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		04/25/24 17:17	04/26/24 11:25	1

Lab Sample ID: LCS 500-765021/2-A
Matrix: Water
Analysis Batch: 765188

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 765021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.240		mg/L		96	85 - 115

Lab Sample ID: 500-249028-15 MS
Matrix: Water
Analysis Batch: 765188

Client Sample ID: HEN_08
Prep Type: Total Recoverable
Prep Batch: 765021

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.016		0.250	0.266		mg/L		100	70 - 130

Lab Sample ID: 500-249028-15 DU
Matrix: Water
Analysis Batch: 765188

Client Sample ID: HEN_08
Prep Type: Total Recoverable
Prep Batch: 765021

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.016		0.0161		mg/L		2	20

QC Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-765119/1-A
Matrix: Water
Analysis Batch: 765664

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 765119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		04/26/24 08:48	04/30/24 12:08	1

Lab Sample ID: LCS 500-765119/2-A
Matrix: Water
Analysis Batch: 765664

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 765119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.259		mg/L		104	85 - 115

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-764893/1-A
Matrix: Water
Analysis Batch: 765372

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 15:06	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 15:06	1
Barium	<0.0025		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 15:06	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 15:06	1
Boron	<0.050		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 15:06	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 15:06	1
Calcium	<0.20		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 15:06	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 15:06	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 15:06	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 15:06	1
Magnesium	<0.20		0.20	0.049	mg/L		04/25/24 09:20	04/26/24 15:06	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 15:06	1
Potassium	<0.50		0.50	0.11	mg/L		04/25/24 09:20	04/26/24 15:06	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 15:06	1
Sodium	0.180	J	0.20	0.077	mg/L		04/25/24 09:20	04/26/24 15:06	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 15:06	1

Lab Sample ID: LCS 500-764893/2-A
Matrix: Water
Analysis Batch: 765372

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.504		mg/L		101	80 - 120
Arsenic	0.100	0.0969		mg/L		97	80 - 120
Barium	0.500	0.497		mg/L		99	80 - 120
Beryllium	0.0500	0.0502	^5-	mg/L		100	80 - 120
Boron	1.00	0.956		mg/L		96	80 - 120
Cadmium	0.0500	0.0508		mg/L		102	80 - 120
Calcium	10.0	8.82		mg/L		88	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.503		mg/L		101	80 - 120
Lead	0.100	0.0970		mg/L		97	80 - 120
Magnesium	10.0	10.2		mg/L		102	80 - 120

QC Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

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

Lab Sample ID: LCS 500-764893/2-A
Matrix: Water
Analysis Batch: 765372

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1.00	0.958		mg/L		96	80 - 120
Potassium	10.0	10.1		mg/L		101	80 - 120
Selenium	0.100	0.0978		mg/L		98	80 - 120
Sodium	10.0	10.2		mg/L		102	80 - 120
Thallium	0.100	0.0974		mg/L		97	80 - 120

Lab Sample ID: MB 500-764894/1-A
Matrix: Water
Analysis Batch: 765372

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:23	04/26/24 13:22	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:23	04/26/24 13:22	1
Barium	<0.0025		0.0025	0.00073	mg/L		04/25/24 09:23	04/26/24 13:22	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:23	04/26/24 13:22	1
Calcium	<0.20		0.20	0.044	mg/L		04/25/24 09:23	04/26/24 13:22	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:23	04/26/24 13:22	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:23	04/26/24 13:22	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:23	04/26/24 13:22	1
Magnesium	<0.20		0.20	0.049	mg/L		04/25/24 09:23	04/26/24 13:22	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		04/25/24 09:23	04/26/24 13:22	1
Potassium	<0.50		0.50	0.11	mg/L		04/25/24 09:23	04/26/24 13:22	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:23	04/26/24 13:22	1
Sodium	0.179	J	0.20	0.077	mg/L		04/25/24 09:23	04/26/24 13:22	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:23	04/26/24 13:22	1

Lab Sample ID: MB 500-764894/1-A
Matrix: Water
Analysis Batch: 765568

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010		0.0010	0.00053	mg/L		04/25/24 09:23	04/29/24 12:58	1
Boron	<0.050		0.050	0.013	mg/L		04/25/24 09:23	04/29/24 12:58	1

Lab Sample ID: LCS 500-764894/2-A
Matrix: Water
Analysis Batch: 765372

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.509		mg/L		102	80 - 120
Arsenic	0.100	0.103		mg/L		103	80 - 120
Barium	0.500	0.525		mg/L		105	80 - 120
Cadmium	0.0500	0.0512		mg/L		102	80 - 120
Calcium	10.0	9.32		mg/L		93	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Lead	0.100	0.0980		mg/L		98	80 - 120
Magnesium	10.0	9.97		mg/L		100	80 - 120
Molybdenum	1.00	0.990		mg/L		99	80 - 120

QC Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

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

Lab Sample ID: LCS 500-764894/2-A
Matrix: Water
Analysis Batch: 765372

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	10.0	10.4		mg/L		104	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Sodium	10.0	9.84		mg/L		98	80 - 120
Thallium	0.100	0.0992		mg/L		99	80 - 120

Lab Sample ID: LCS 500-764894/2-A
Matrix: Water
Analysis Batch: 765568

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0536		mg/L		107	80 - 120
Boron	1.00	1.05		mg/L		105	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-765382/11-A
Matrix: Water
Analysis Batch: 765626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 765382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 08:21	1

Lab Sample ID: LCS 500-765382/12-A
Matrix: Water
Analysis Batch: 765626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 765382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00203		mg/L		101	80 - 120

Lab Sample ID: MB 500-765389/12-A
Matrix: Water
Analysis Batch: 765626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 765389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 07:12	1

Lab Sample ID: LCS 500-765389/13-A
Matrix: Water
Analysis Batch: 765626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 765389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00191		mg/L		95	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-766360/3
Matrix: Water
Analysis Batch: 766360

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			05/06/24 11:32	1

QC Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-766360/3
Matrix: Water
Analysis Batch: 766360

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.0		1.0	0.21	mg/L			05/06/24 11:32	1

Lab Sample ID: MB 500-766360/33
Matrix: Water
Analysis Batch: 766360

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			05/06/24 19:08	1
Sulfate	<1.0		1.0	0.21	mg/L			05/06/24 19:08	1

Lab Sample ID: LCS 500-766360/34
Matrix: Water
Analysis Batch: 766360

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	19.6		mg/L		98	90 - 110
Sulfate	20.0	20.4		mg/L		102	90 - 110

Lab Sample ID: LCS 500-766360/4
Matrix: Water
Analysis Batch: 766360

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	19.7		mg/L		99	90 - 110
Sulfate	20.0	20.4		mg/L		102	90 - 110

Lab Sample ID: 500-249028-18 MS
Matrix: Water
Analysis Batch: 766360

Client Sample ID: HEN_16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	61		100	150		mg/L		89	80 - 120
Sulfate	51		100	146		mg/L		95	80 - 120

Lab Sample ID: 500-249028-18 MSD
Matrix: Water
Analysis Batch: 766360

Client Sample ID: HEN_16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61		100	150		mg/L		89	80 - 120	0	20
Sulfate	51		100	145		mg/L		94	80 - 120	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-765622/28
Matrix: Water
Analysis Batch: 765622

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			04/29/24 15:30	1

QC Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 500-765622/28
Matrix: Water
Analysis Batch: 765622

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			04/29/24 15:30	1

Lab Sample ID: MB 500-765622/78
Matrix: Water
Analysis Batch: 765622

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			04/29/24 22:42	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			04/29/24 22:42	1

Lab Sample ID: LCS 500-765622/29
Matrix: Water
Analysis Batch: 765622

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

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

Lab Sample ID: LCS 500-765622/4
Matrix: Water
Analysis Batch: 765622

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

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

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

Lab Sample ID: MB 500-763450/1
Matrix: Water
Analysis Batch: 763450

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			04/16/24 20:47	1

Lab Sample ID: LCS 500-763450/2
Matrix: Water
Analysis Batch: 763450

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	234		mg/L		94	80 - 120

Lab Sample ID: MB 500-763451/1
Matrix: Water
Analysis Batch: 763451

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			04/16/24 22:21	1

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

Lab Sample ID: LCS 500-763451/2
Matrix: Water
Analysis Batch: 763451

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	274		mg/L		110	80 - 120		

Lab Sample ID: 500-249028-11 DU
Matrix: Water
Analysis Batch: 763451

Client Sample ID: HEN_46
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	530			518		mg/L				2	5

Lab Sample ID: MB 500-763630/1
Matrix: Water
Analysis Batch: 763630

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			04/18/24 02:43	1

Lab Sample ID: LCS 500-763630/2
Matrix: Water
Analysis Batch: 763630

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	268		mg/L		107	80 - 120		

Lab Sample ID: MB 500-763874/1
Matrix: Water
Analysis Batch: 763874

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			04/18/24 22:43	1

Lab Sample ID: LCS 500-763874/2
Matrix: Water
Analysis Batch: 763874

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	252		mg/L		101	80 - 120		

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-765957/3
Matrix: Water
Analysis Batch: 765957

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			05/01/24 14:00	1

QC Sample Results

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

Job ID: 500-249028-8
SDG: HEN_845_803

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: MB 500-765957/31
Matrix: Water
Analysis Batch: 765957

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			05/01/24 16:13	1

Lab Sample ID: LCS 500-765957/32
Matrix: Water
Analysis Batch: 765957

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.84		mg/L		98	90 - 119

Lab Sample ID: LCS 500-765957/4
Matrix: Water
Analysis Batch: 765957

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.81		mg/L		98	90 - 119

Lab Sample ID: MB 500-766368/3
Matrix: Water
Analysis Batch: 766368

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			05/03/24 12:22	1

Lab Sample ID: LCS 500-766368/4
Matrix: Water
Analysis Batch: 766368

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.68		mg/L		97	90 - 119

Lab Chronicle

Client Sample ID: HEN_12
Date Collected: 04/15/24 18:15
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			764775	MC	EET CHI	04/24/24 16:44 - 04/24/24 22:44 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	764960	SJ	EET CHI	04/25/24 13:03
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 15:31
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 08:38
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 15:05
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 13:50
Total/NA	Analysis	SM 2540C		1	763450	CLB	EET CHI	04/16/24 21:36
Total/NA	Analysis	SM 4500 F C		1	766368	SO	EET CHI	05/03/24 13:06
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/15/24 18:15

Client Sample ID: HEN_13
Date Collected: 04/15/24 17:25
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			764775	MC	EET CHI	04/24/24 16:44 - 04/24/24 22:44 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	764960	SJ	EET CHI	04/25/24 13:07
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 15:33
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 08:40
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 15:20
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 13:59
Total/NA	Analysis	SM 2540C		1	763450	CLB	EET CHI	04/16/24 21:38
Total/NA	Analysis	SM 4500 F C		1	766368	SO	EET CHI	05/03/24 13:21
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/15/24 17:25

Client Sample ID: HEN_46
Date Collected: 04/15/24 18:00
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			764775	MC	EET CHI	04/24/24 16:44 - 04/24/24 22:44 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	764960	SJ	EET CHI	04/25/24 13:25
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 15:48
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:06
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 16:36
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 14:45
Total/NA	Analysis	SM 2540C		1	763451	CLB	EET CHI	04/16/24 22:21

Lab Chronicle

Client Sample ID: HEN_46
Date Collected: 04/15/24 18:00
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 15:22
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/15/24 18:00

Client Sample ID: HEN_47
Date Collected: 04/15/24 17:10
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765021	MC	EET CHI	04/25/24 17:17 - 04/25/24 23:17 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765188	SJ	EET CHI	04/26/24 12:03
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:07
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:08
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 16:51
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 14:54
Total/NA	Analysis	SM 2540C		1	763451	CLB	EET CHI	04/16/24 22:21
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 15:27
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/15/24 17:10

Client Sample ID: HEN_07
Date Collected: 04/16/24 10:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765021	MC	EET CHI	04/25/24 17:17 - 04/25/24 23:17 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765188	SJ	EET CHI	04/26/24 12:16
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:09
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:10
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 17:36
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 17:21
Total/NA	Analysis	SM 2540C		1	763630	CLB	EET CHI	04/18/24 03:34
Total/NA	Analysis	SM 4500 F C		1	766368	SO	EET CHI	05/03/24 13:44
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 10:05

Client Sample ID: HEN_08
Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765021	MC	EET CHI	04/25/24 17:17 - 04/25/24 23:17 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765188	SJ	EET CHI	04/26/24 12:20

Lab Chronicle

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_08
Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:11
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:12
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 17:52
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 17:30
Total/NA	Analysis	SM 2540C		1	763630	CLB	EET CHI	04/18/24 03:37
Total/NA	Analysis	SM 4500 F C		1	766368	SO	EET CHI	05/03/24 13:49
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 11:00

Client Sample ID: HEN_08&D
Date Collected: 04/16/24 10:10
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765664	SJ	EET CHI	04/30/24 12:38
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:13
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:14
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 18:07
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 17:40
Total/NA	Analysis	SM 2540C		1	763630	CLB	EET CHI	04/18/24 03:39
Total/NA	Analysis	SM 4500 F C		1	766368	SO	EET CHI	05/03/24 13:54
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 10:10

Client Sample ID: HEN_16
Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765585	SJ	EET CHI	04/29/24 17:29
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:17
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:18
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 19:38
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 18:00
Total/NA	Analysis	SM 2540C		1	763874	CLB	EET CHI	04/18/24 22:48
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 16:04
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 11:00

Lab Chronicle

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

Job ID: 500-249028-8
SDG: HEN_845_803

Client Sample ID: HEN_16_FD
Date Collected: 04/16/24 11:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765585	SJ	EET CHI	04/29/24 17:34
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:19
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:21
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 20:54
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 18:11
Total/NA	Analysis	SM 2540C		1	763874	CLB	EET CHI	04/18/24 22:50
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 16:08
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 11:05

Client Sample ID: HEN_17
Date Collected: 04/16/24 11:50
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765585	SJ	EET CHI	04/29/24 17:38
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:22
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:23
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 21:09
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 18:20
Total/NA	Analysis	SM 2540C		1	763874	CLB	EET CHI	04/18/24 22:53
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 16:23
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 11:50

Client Sample ID: HEN_52
Date Collected: 04/16/24 12:20
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765585	SJ	EET CHI	04/29/24 17:42
Total Recoverable	Prep	3005A			764894	BDE	EET CHI	04/25/24 09:23 - 04/25/24 15:23 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 14:16
Total Recoverable	Prep	3005A			764894	BDE	EET CHI	04/25/24 09:23 - 04/25/24 15:23 [1]
Total Recoverable	Analysis	6020B		1	765568	RN	EET CHI	04/29/24 13:02
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:29
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 21:24
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 18:29

Lab Chronicle

Client Sample ID: HEN_52
Date Collected: 04/16/24 12:20
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	763874	CLB	EET CHI	04/18/24 22:55
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 16:28
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 12:20

Client Sample ID: HEN_54
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765664	SJ	EET CHI	04/30/24 12:42
Total Recoverable	Prep	3005A			764894	BDE	EET CHI	04/25/24 09:23 - 04/25/24 15:23 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 14:19
Total Recoverable	Prep	3005A			764894	BDE	EET CHI	04/25/24 09:23 - 04/25/24 15:23 [1]
Total Recoverable	Analysis	6020B		1	765568	RN	EET CHI	04/29/24 13:04
Total/NA	Prep	7470A			765389	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 07:17
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 21:39
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 18:39
Total/NA	Analysis	SM 2540C		1	763874	CLB	EET CHI	04/18/24 22:58
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 16:32
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 12:35

Client Sample ID: HEN_54_FD
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765664	SJ	EET CHI	04/30/24 12:46
Total Recoverable	Prep	3005A			764894	BDE	EET CHI	04/25/24 09:23 - 04/25/24 15:23 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 14:21
Total Recoverable	Prep	3005A			764894	BDE	EET CHI	04/25/24 09:23 - 04/25/24 15:23 [1]
Total Recoverable	Analysis	6020B		1	765568	RN	EET CHI	04/29/24 13:07
Total/NA	Prep	7470A			765389	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 07:19
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 21:54
Total/NA	Analysis	SM 2320B		1	765622	SO	EET CHI	04/29/24 18:48
Total/NA	Analysis	SM 2540C		1	763874	CLB	EET CHI	04/18/24 23:01
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 16:37
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 12:35

Lab Chronicle

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

Client Sample ID: HEN_55
Lab Sample ID: 500-249028-30
Date Collected: 04/15/24 10:10
Matrix: Water
Date Received: 04/30/24 11:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	765820	DN	EET CHI	04/15/24 10:10

Client Sample ID: HEN_XSG01
Lab Sample ID: 500-249028-31
Date Collected: 04/15/24 09:55
Matrix: Water
Date Received: 04/30/24 11:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	765820	DN	EET CHI	04/15/24 09:55

Client Sample ID: HEN_YSG_ILRIVER
Lab Sample ID: 500-249028-32
Date Collected: 04/15/24 11:45
Matrix: Water
Date Received: 04/30/24 11:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	765820	DN	EET CHI	04/15/24 11:45

[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: HEN-24Q2

Job ID: 500-249028-8
SDG: HEN_845_803

Laboratory: Eurofins Chicago

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

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

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

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

500-249028

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E 800th St Hennepin, IL 61327	Copy To:	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Address:	see Section A
Phone:	(217) 753-8911 Fax:	Project Name		Quote Reference:	
Requested Due Date/TAT:	10 day	Project Number:	50023030	Project Manager:	
				Profile #:	

500 249028 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_RAD_000	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN_02~~																						X			A			~~SHORT HOLD-NO2~~
1	HEN_03R	WT	G	4/15/24	1555		15										X				X		X		X	B			SHORT HOLD-NO2
2	HEN_03R_FD	"	"	"	1615		15										X				X		X		X	B			SHORT HOLD-NO2
3	HEN_05IR				1432		11													X						E			SHORT HOLD-NO2
4	HEN_05&DR	↓	↓	↓	1515		11													X						E			SHORT HOLD-NO2
	~~HEN_07~~																X	X			X	X		X	X	B			~~SHORT HOLD-NO2~~
	~~HEN_08~~																X	X		X	X	X		X	X	C			~~SHORT HOLD-NO2~~
	~~HEN_08&D~~																X	X		X	X	X		X	X	C			~~SHORT HOLD-NO2~~
	~~HEN_10~~																			X				X		D			~~SHORT HOLD-NO2~~
5	HEN_12	WT	G	4/15/24	1815		13											X		X		X			X	F			SHORT HOLD-NO2
6	HEN_13	↓	↓	↓	1725		13											X		X		X			X	F			SHORT HOLD-NO2
	~~HEN_16~~																	X				X			X	G			
	~~HEN_16_FD~~																	X				X			X	G			
	~~HEN_17~~																	X				X			X	G			
7	HEN_18#S	WT	G	4/15/24	1448		15										X					X		X	X	B			SHORT HOLD-NO2
8	HEN_18&D	↓	↓	↓	1344		15										X					X		X	X	B			SHORT HOLD-NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
HEN-24Q2 Rev 0	ABeckett	4/16/24	0930							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Beckett DATE Signed (MM/DD/YY): 4/16/24 @ 0930

Beckett 4/16/24 0930 EETA

Allison Nichols 4/16/24 1125 EETA

Allison Scott 4/16/24 1125 EETA

5.2 → 4.8
5.0 → 4.6
4.6 → 4.2
5.8 → 5.4
6.0 → 5.6

560-244028

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 2 of 3

Section A Required Client Information.

Company:	Vistra Corp-Hennepin
Address:	13498 E 800th St Hennepin, IL 61327
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 Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No.	
Project Name	
Project Number:	50023030

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: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN_24R~~																		X				X		X	X	H		
	~~HEN_22~~																		X				X		X	X	H		
	~~HEN_22&D~~																		X				X		X	X	H		
	~~HEN_23~~																		X				X		X	X	H		
	~~HEN_25~~																		X								J		~~DTW ONLY~~
	~~HEN_26~~																		X								J		~~DTW ONLY~~
	~~HEN_27~~																		X				X		X	X	H		
	~~HEN_30~~																		X								J		~~DTW ONLY~~
	~~HEN_31~~																		X								J		~~DTW ONLY~~
	~~HEN_32~~																		X				X		X	X	H		
	~~HEN_33~~																		X								J		~~DTW ONLY~~
	~~HEN_34~~																		X				X		X	X	H		
	~~HEN_35~~																		X				X		X	X	H		
	~~HEN_35_FD~~																		X				X		X	X	H		
	~~HEN_36~~																		X								J		~~DTW ONLY~~
9	HEN_40#S	WTG		4/15/24	1345		11													X							E		SHORT HOLD-NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	[signature]	4/16/24	0930				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible] BELNETT

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 4/16/24 @ 0930

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

[signature] 4/16/24 0930 EETA

[signature] 4/16/24 1125 EETA

[signature] 4/16/24 1125 EETA

500 - 249128

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 3 of 3

Section A Required Client Information:

Company	Vistra Corp-Hennepin
Address	13498 E 800th St Hennepin, IL 61327
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 Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No.	
Project Name	
Project Number:	50023030

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: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I.D.
10	HEN_45#S	WT	G	4/15/24	1005		15										X				X			X		X	B			SHORT HOLD-NO2
11	HEN_46	↓	↓		1800		6											X				X				X	G			
12	HEN_47	↓	↓	↓	1710		6											X				X				X	G			
	~~HEN_49~~																		X				X		X	X	H			
	~~HEN_50~~																		X				X		X	X	H			
	~~HEN_51~~																		X				X		X	X	H			
	~~HEN_52~~																	X				X				X	G			
	~~HEN_54~~																	X				X				X	G			
	HEN_54_FD																	X				X				X	G			
	~~HEN_55~~																	X				X					J			DTW ONLY
	~~HEN_XSG01~~																	X				X					J			DTW ONLY
	~~HEN_YSG_ILRIVER~~																X	X	X		X	X	X	X	X		J			DTW ONLY
	~~HEN_FB~~																			X	X			X		X	C			SHORT HOLD-NO2
	~~HEN_TB~~																							X			A			BTEX ONLY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	[signature]	4/16/24	0930				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Bickett

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 4/16/24 0930

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

Jason Stuckey 4/16/24 0930 EETA
Jason Stuckey 4/16/24 1125 EETA
[signature] 4/16/24 1125 EETA

500-249028-1

HENNEPIN 803
HEN-845-803

Page 1 of 2

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information.		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address	13498 E 800th St	Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327			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:	50023030	Profile #:	

500-249028 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_RAD_000	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I.D.
13	HEN_02	WT	G	4/16/24	1330		10																		X			A			SHORT HOLD-NO2
	~~HEN_03R~~																	X				X			X		X	B			~~SHORT HOLD-NO2~~
	~~HEN_03R_FD~~																	X				X			X		X	B			~~SHORT HOLD-NO2~~
	~~HEN_05IR~~																				X							E			~~SHORT HOLD-NO2~~
	~~HEN_05&DR~~																				X							E			~~SHORT HOLD-NO2~~
14	HEN_07	WT	G	4/16/24	1005		15											X	X			X	X		X		X	B			SHORT HOLD-NO2
15	HEN_08	↓	↓	↓	1100		17											X	X		X	X	X		X		X	C			SHORT HOLD-NO2
16	HEN_08&D				1010		17											X	X		X	X	X		X		X	C			SHORT HOLD-NO2
17	HEN_10				1305		15														X				X			D			SHORT HOLD-NO2
	~~HEN_12~~																		X		X		X				X	F			~~SHORT HOLD-NO2~~
	~~HEN_13~~																		X		X		X				X	F			~~SHORT HOLD-NO2~~
18	HEN_16	WT	G	4/16/24	1100		6												X				X				X	G			
19	HEN_16_FD				1105		6												X				X				X	G			
20	HEN_17				1150		6												X				X				X	G			
	~~HEN_18#S~~																	X				X			X		X	B			~~SHORT HOLD-NO2~~
	~~HEN_18&D~~																	X				X			X		X	B			~~SHORT HOLD-NO2~~

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	Becker	4/16/24	1630				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Becker

SIGNATURE of SAMPLER: Becker DATE Signed (MM/DD/YY): 4/16/24

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

5.6 → 5.2
3.7 → 3.3
4.4 → 4.0
5.2 → 4.8

Relinquished by 1430

Received 1630 4/16/24 1630

500 HENNEPIN 803
HEN-845-803

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 2 of 2

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address	13498 E. 800th St Hennepin, IL 61327
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 Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No.	
Project Name	
Project Number:	50023030

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: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN_45#S~~																X				X			X	X	B		~~SHORT HOLD-NO2~~
	~~HEN_46~~																	X				X				X	G		
	~~HEN_47~~																	X				X				X	G		
	~~HEN_48~~																		X				X	X	X	X	H		
	~~HEN_50~~																		X				X		X	X	H		
	~~HEN_51~~																		X				X		X	X	H		
21	HEN_52	WT	G	4/16/24	1220		6											X				X				X	G		
22	HEN_54	↓	↓	↓	1235		6											X				X				X	G		
23	HEN_54_FD	↓	↓	↓	1235		6											X				X				X	G		
	~~HEN_55~~																	X				X			>		J		~~DTW ONLY~~
	~~HEN_XBG01~~																	X				X					J		~~DTW ONLY~~
	~~HEN_YSG_ILRIVER~~																X	X	X		X	X	X	X	X		J		~~DTW ONLY~~
24	HEN_FB	WT	G	4/16/24	1430		17													X	X			X		X	C		SHORT HOLD-NO2
	~~HEN_TB~~																							X			A		BTEX ONLY
25	HEN_TB1																												Added by EESA
26	HEN_TB2																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	Beckett	4/16/24	1630				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Beckett DATE Signed (MM/DD/YY): 4/16/24

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

Lorne Filing 1430
David Filing 1630
Allison Scott 4/16/24 1630

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-249028-8
SDG Number: HEN_845_803

Login Number: 249028
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8,4.6,4.2,5.4,5.6,5.2,3.3,4.0,4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
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: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 1250
Field Personnel: A. Beckett / L. Filewicz Finish Date: 4/16/24 Time: 1330

WELL INFORMATION

Well ID: ~~HEN-~~ 02
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
bkd	1250		42.42								
purge	1255		42.42		13.0	7.00	1546	1.53	2.38	168.4	clear
	1300		42.43		13.1	7.02	1583	0.67	0.95	164.5	" "
	1305		42.42		13.01	7.02	1592	0.55	0.93	161.7	" "
	1310		42.42		13.1	7.02	1596	0.50	0.93	159.8	" "
	1315		42.43		13.0	7.02	1595	0.51	0.92	159.0	" "

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

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

Sampled @ 1320

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/2024 Time: 1400
Field Personnel: A. Beckett / L.Filewicz Finish Date: 4/15/24 Time: 1440

WELL INFORMATION

Well ID: ~~HEN-~~ 45! R
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1400		38.58								
purge	1405		38.58		16.9	7.04	1252	0.76	11.50	140.9	clear
	1410		38.58		16.9	7.03	1252	0.33	8.25	137.4	"
	1415		38.58		16.9	7.03	1254	0.14	7.68	134.3	"
	1420		38.58		16.9	7.03	1265	0.11	7.03	131.5	"
	1425		38.58		14.9	7.04	1273	0.10	2.78	128.9	"
	1430	4	38.58		16.9	7.04	1277	0.10	4.11	128.0	"

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

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

☐ ☐

sampled @ 1432

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/2024 Time: 1450
Field Personnel: A. Beckett / L. Filewicz Finish Date: 4/15/24 Time: 1525

WELL INFORMATION

Well ID: HEN-059DR
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1445		38.59								
purge	1450		38.58		17.0	7.47	1226	2.25	2.95	149.3	"
	1455		38.59		17.0	7.46	1227	0.53	1.85	145.9	"
	1500		38.59		17.1	7.46	1226	0.33	1.81	141.6	"
	1505		38.59		17.1	7.46	1229	0.32	1.00	139.2	"
	1510	3	38.59		17.1	7.47	1227	0.33	1.52	137.2	
	~~1515~~										
	#										

NOTES (continued)

Bladder Pump / Clear / No Color / No odor

ABBREVIATIONS

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

☐ ☐

Sampled @ 1515

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra 0935
Project Number: Task #: Start Date: 4/16/2024 Time:
Field Personnel: A. Beckett / L.Filewicz Finish Date: 4-16-24 Time: 1005

WELL INFORMATION

Well ID: 7
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	0935		→ 66.82		12.5	6.91	1070	9.30	3.92	159.6	
	0945										
	0950				12.7	6.90	1032	6.88	3.45	157.9	
	0955				12.8	6.96	1023	5.55	2.54	154.5	
	1000				12.7	6.97	1032	5.16	2.50	154.0	
	1005	2GAL	66.85		12.8	6.97	1036	5.12	2.24	154.0	

NOTES (continued)

Bladder Pump / Clear / No Color / No odor

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4 /16/2024 Time: 1030
Field Personnel: A. Beckett / L. Filewicz Finish Date: 4 16.24 Time: 1100

WELL INFORMATION
Well ID: 4
Casing ID: 8 inches

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1030		51.23								
	1040				14.46	6.81	2044	7.39	2.75	177.9	
	1045				14.60	6.76	1926	3.69	.95	174.0	
	1050				14.60	6.76	1894	2.37	.50	169.9	
	1055				14.60	6.76	1891	2.35	.54	166.9	
	1100	2GAL	15.21		14.60	6.76	1879	2.30	.55	166.9	

NOTES (continued)
Bladder Pump / Clear / No Color / No odor

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

4-20
L8-24-30

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 0935
Field Personnel: A. Beckett / L Filewicz Finish Date: 4/16/24 Time: 1030

WELL INFORMATION

Well ID: ~~HEN-08~~ &D
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	0940		51.66								
purge	0945		51.66		13.7	6.80	3255	3.73	2.21	159.6	clear
	0950		51.65		13.7	6.74	3207	1.27	2.83	160.3	" "
	0955		51.46		13.7	6.73	3237	1.05	2.74	155.6	" "
	1000		51.65		13.7	6.73	3238	1.07	2.57	155.6	" "
	1005	2	51.65		13.8	6.72	332	1.08	3.49	154.4	" "

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

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

17 Bottles

Sampled @ 1010

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: Task #: Start Date: 4 / 16 2024 Time: 1235

Field Personnel: A. Beckett / L. Filewicz Finish Date: 4 16 24 Time: 1305

WELL INFORMATION

Well ID: 10

Casing ID: inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other

(Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
	1235		48.23								
	1245				12.7	7.41	973	7.70	1.60	145.8	
	1250				18.5	7.27	965	4.25	2.07	144.8	
	1255				18.5	7.24	954	3.59	2.10	140.8	
	1300				18.5	7.24	951	3.55	1.34	136.9	
	1305	2 Gal	48.25								

NOTES (continued)

Bladder Pump / Clear / No Color / No odor

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4-15-24 Time: 1745
Field Personnel: AB/LF Finish Date: 4-15-24 Time: 1815

WELL INFORMATION

Well ID: 12
Transducer Serial #:

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
					3%	+.1	3%	10%	10%	+10	
Pre	1745		48.79								
	1750				16.6	7.160	888	8.62	2.82	105.2	
	1755				17.6	7.30	978	4.61	1.26	114.9	
	1800				17.7	7.26	998	3.19	1.28	114.6	
	1805				17.7	7.26	999	3.06	1.33	114.1	
	1810				17.7	7.25	998	3.05	1.15	114.0	
	1815		48.85		17.6	7.25	999	3.04	1.20	114.1	

NOTES (continued)

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 1030
Field Personnel: A. Beckett / L. Filewicz Finish Date: 4/16/24 Time:

WELL INFORMATION

Well ID: HEN-16
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1030		51.85								
purge	1035		51.84		14.2	7.44	1068	7.23	0.78	147.7	clear
	1040		51.84		13.6	7.42	1051	7.06	0.73	149.8	"
	1045		51.83		13.6	7.40	1051	7.07	0.72	149.8	"
	1050		51.84		13.5	7.40	1051	7.08	0.70	149.7	"
	1055	3.5	51.83		13.5	7.41	1051	7.10	0.72	149.2	"

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

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

☐ ☐ ☐ ☐ 6 bottles

Sampled @ 1100

dupe sampled @ 1105

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4-15-24 Time: 1700
Field Personnel: AB/LF Finish Date: 4-15-24 Time: 1725

WELL INFORMATION

Well ID: 13
Transducer Serial #:

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
					3%	+.1	3%	10%	10%	+10	
Pre	1655		48.82								
	1700		48.82		17.7	7.29	966	4.41	1.53	106.6	
	1705				18.0	7.35	964	1.16	.63	110.7	
	1710				18.0	7.36	975	1.43	-.75	108.8	
	1715				17.9	7.33	996	2.31	.78	108.6	
	1720				18.0	7.33	998	2.36	.57	107.7	
	1725	2.5 Gal	48.85		17.9	7.33	998	2.35	.56	107.1	
	1730										

NOTES (continued)

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 1120
Field Personnel: A. Beckett / L.Filewicz Finish Date: 4/16/24 Time: 1200

WELL INFORMATION

Well ID: ~~HEN-17~~
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1120		54.94					7.75			
purge	1125		54.94		14.7	7.34	1260	~~7.75~~	4.18	156.2	clear
	1130		54.93		14.8	7.35	1040	7.72	4.00	154.6	"
	1135		54.94		14.8	7.34	1051	7.52	5.23	154.1	"
	1140		54.94		14.8	7.33	1054	7.41	5.90	154.1	"
	1145		54.94		14.8	7.33	1053	7.42	6.22	154.2	"

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

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

☐ ☐ 6 bottles

Sampled @ 1150

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/24 Time: 1413
Field Personnel: ABLF Finish Date: 4/15/24 Time: 1448

WELL INFORMATION

Well ID: 18 S
Transducer Serial #:

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
					3%	+.1	3%	10%	10%	+10	
Pre [redacted]	1413		37.90								
	1418		37.90		16.90	7.25	1120	2.91	7.05	112.2	Clear
	1423				16.9	7.26	1120	2.11	5.30	109.5	
	1428				17.0	7.27	1117	1.90	3.21	106.0	
	1433				16.9	7.27	1115	1.79	2.18	102.5	
	1438				17.0	7.27	1113	1.76	2.05	101.2	
	1443				17.0	7.28	1112	1.73	2.14	98.6	
	1448				17.0	7.28	1112	1.73	1.93	97.6	
	1453	3GAL	37.72								

NOTES (continued)

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/24 Time: 1319
Field Personnel: ABLF Finish Date: 4/15-24 Time: 1344

WELL INFORMATION

Well ID: 18D
Transducer Serial #:

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
					3%	+.1	3%	10%	10%	+10	
Pre	1319		38.08								
	1324		38.08		17.5	7.26	977	2.00	9.46	96.3	
	1329				17.6	7.24	975	1.50	8.64	96.2	
	1334				17.6	7.24	975	1.33	9.38	94.5	
	1339				17.6	7.24	974	1.26	8.82	92.7	
	1344	2Gal	38.27		17.6	7.22	973	.93	8.98	90.8	Clear

NOTES (continued)

Alot of Air Bubbles From Well into YSI.

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4-15-24 Time: 1515
Field Personnel: AB/LF Finish Date: 4/15/24 Time: 1555

WELL INFORMATION

Well ID: 03R
Transducer Serial #:

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
					3%	+.1	3%	10%	10%	+10	
Pre	1515		32.42								
	1520				18.1	7.24	1012	1.00	24.04	124.7	
	1525				17.7	7.20	1008	.50	13.28	118.4	
	1530				17.9	7.20	1009	.43	7.71	112.1	
	1535				17.9	7.20	1009	.40	5.02	105.5	
	1540				17.9	7.20	1009	.38	3.76	100.5	
	1545				18.0	7.20	1008	.37	3.44	96.1	
	1550				17.8	7.20	1009	.36	2.76	92.7	
	1555	3.56AL	32.50		17.9	7.20	1007	.36	2.69	89.7	
	1600										
	1605										

NOTES (continued)

ABBREVIATIONS

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

Dupe 03R 1615

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/2024 Time: 1300
Field Personnel: A. Beckett / L.Filewicz Finish Date: 4/15/24 Time: 1350

WELL INFORMATION

Well ID: ~~HEN~~ 40#5
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) +10%	Visual Clarity
0	pre	1310		37.88								
5	purge	1315		37.88		17.0	7.73	1305	3.05	3.90	135.4	clear
10		1320		37.85		17.1	7.75	1320	0.00	2.76	130.3	" "
15		1325		37.85		17.1	7.77	1303	0.35	5.02	126.0	" "
20		1330		37.85		17.0	7.75	1313	0.80	9.71	124.5	" "
25		1335		37.85		17.0	7.77	1297	1.52	8.81	122.1	" "
30		1340		37.85		17.0	7.78	1294	1.38	2.02	120.9	" "
35		1345	4	37.85		17.0	7.77	1294	1.42	9.89	119.7	" "
~~40~~		1350										

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

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

Sampled @ 1345

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/2024 Time: 1530
Field Personnel: A. Beckett / L.Filewicz Finish Date: 4/15/24 Time: 1630

WELL INFORMATION

Well ID: HEN_45#5
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1530		18.71								
purge	1535		18.72		17.6	7.24	1403	5.12	4.48	111.7	clear
	1540		18.72		20.0	7.14	1428	1.48	21.90	131.7	clear
	1545		18.72		19.8	7.13	1448	6.07	39.52	135.9	murky
	1550		18.71		19.8	7.13	1449	0.02	15.51	134.2	" "
	1550		18.72		19.9	7.13	1450	0.01	7.22	132.9	" "
	1600		18.71		19.9	7.13	1450	0.01	4.77	131.5	" "
	1605		18.71		19.9	7.13	1451	0.00	4.21	130.7	" "

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

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

Low-Flow Sampling Form Page

☐ ☐ ☐ ☐

Sampled @ 1605

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/2024 Time: 1730
Field Personnel: A. Beckett / L.Filewicz Finish Date: 4/15/24 Time: 1815

WELL INFORMATION

Well ID: ~~HEN-46~~
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1730		48.96								
purge	1735		48.96		17.1	7.28	1288	5.04	2.00	158.9	clear
	1740		48.96		17.0	7.28	1322	2.68	1.44	155.4	"
	1745		48.96		16.9	7.28	1321	2.63	1.20	153.2	"
	1750		48.96		16.9	7.29	1321	2.62	0.96	152.0	"
	1755		48.96		16.9	7.29	1320	2.63	0.92	151.2	"
	~~1800~~										

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

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

☐ ☐

Sampled @ 1800

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/2024 Time: 1635
Field Personnel: A. Beckett / L.Filewicz Finish Date: 4/15/24 Time: ~~1630~~ 1730

WELL INFORMATION

Well ID: ~~Hen~~ Hen_47
Casing ID: ~~2~~ inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1635		53.22								
purge	1640		53.22		18.2	7.08	1310	2.40	1.52	154.6	clear
	1645		53.23		18.2	7.08	1380	2.38	1.81	154.5	" "
	1650		53.22		18.1	7.09	1358	2.25	0.84	150.5	" "
	1655		53.22		18.1	7.09	1358	2.23	0.83	149.5	" "
	1700		53.22		18.1	7.09	1356	2.22	0.78	148.6	" "
	1705	2.5	53.23		18.1	7.09	1358	2.22	0.74	148.4	" "
	~~1710~~										

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

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

Low-Flow Sampling Form

Page

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Sampled @ 1710

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 1155
Field Personnel: A. Beckett / L. Filewicz Finish Date: 4/16/24 Time: 1220

WELL INFORMATION

Well ID: 52
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre-[illegible]	1155		51.45								
	1200				18.3	7.27	965	4.82	11.02	144.5	
	1205				18.5	7.23	947	2.67	4.18	141.5	
	1210				18.4	7.23	946	2.42	2.77	137.0	
	1215				18.4	7.23	946	2.39	1.77	134.9	
	1220	1.5 GAL	51.34		18.4	7.23	946	2.36	1.70	133.6	

NOTES (continued)

Bladder Pump / Clear / No Color / No odor

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 1205
Field Personnel: A. Beckett / L.Filewicz Finish Date: 4/16/24 Time: 1250

WELL INFORMATION

Well ID: ~~HEN~~ 54
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1205		50.72								
purge	1210		50.73		17.8	7.30	1341	2.04	2.75	158.5	Clear
	1215		50.73		17.8	7.31	1340	1.13	2.65	155.6	" "
	1220		50.73		17.7	7.31	1340	1.07	1.90	153.3	" "
	1225		50.73		17.7	7.31	1340	1.07	1.49	151.4	" "
	1230	3.5	50.73		17.7	7.31	1340	1.07	1.61	152.5	" "

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

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

Low-Flow Sampling Form

Page

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Sampled @ 1235

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.
Transducer data on SAR-4 form may be collected at anytime during the sampling event.
Plant: HEN
Event: HEN-24Q2 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
					Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L)		
22D	HEN_22&D	4/15/24	0828	16.67	21564134	yes	449.11	Y	H	DTP: 53.69	AB
08	HEN_08	4/15/24	0925	51.12	21615138	yes	450.27	Y	H	DTP: 57.09	AB
07	HEN_07	4/15/24	1215	66.81	21615139	yes	451.4	Y	H	DTP: 72.22	AB
03R	HEN_03R	4/15/24	1055	32.35	21615140	yes	449.92	Y	H	DTP: [illegible]	AB
54	HEN_54	4/15/24	1005	50.63	21615143	yes	449.83	Y	H	DTP: 68.45	AB
52	HEN_52	4/15/24	0900	51.32	21615145	yes	449.89	Y	H	DTP: [illegible]	AB
18S	HEN_18#S	4/15/24	1050	37.85	21615482	yes	450.88	Y	H	DTP: 42.55	AB
32	HEN_32				21615487						
50	HEN_50	4/15/24	0820	15.37	21615489	yes	448.84	Y	H	DTP: 24.92	AB
46	HEN_46	4/15/24	0945	48.95	21615491	yes	449.46	Y	H	DTP: 55.05	AB
22	HEN_22	4/15/24	0825	15.84	21615497	yes	448.94	Y	H	DTP: 27.19	AB
17	HEN_17	4/15/24	0935	55.09	21615500	yes	452.27	Y	H	DTP: 61.79	AB
47	HEN_47	4/15/24	1030	53.22	21615505	yes 449.7 [illegible]		Y	H	DTP: 57.65	AB
34	HEN_34				21615509						
35	HEN_35	4/15/24	0800	5.84	21615510	yes	449.26	Y	H	DTP: 16.15	AB
13	HEN_13	4/15/24	1012	48.72	21615515	yes	449.35	Y	H	DTP: 61.90	AB
12	HEN_12	4/15/24	1015	48.75	21615520	yes	450.00	Y	H	DTP: 514	AB
16	HEN_16	4/15/24	0930	51.76	21615534	yes	449.81	Y	H	DTP: 60.88	AB
27	HEN_27				21615576						
08D	HEN_08&D	4/15/24	0910	51.58	21615598	21921673	449.88	Y	H	DTP 84.09	AB
23	HEN_23	4/15/24	0835	14.43	21615600	yes	449.24	Y	H	DTP: 35.37	AB
51	HEN_51	4/15/24	0840	15.90	21615608	yes	449.21	Y	H	DTP: 58.33	AB
18D	HEN_18&D	4/15/24	1052	38.02	21615609	yes	449.37	Y	H	DTP: 72.12	AB
55	HEN_55	4/15/24	1010	49.47	21615612	yes	449.50	Y	H	DTP: 92.45	AB
21R	HEN_21R	4/15/24	0845	3.31	21615613	yes	449.09	Y	H	DTP: 45.32	AB
49	HEN_49	4/15/24	0832	19.15	21629307	yes	449.28	Y	H	DTP: 38.62	AB
XSG01	HEN_XSG01	4/15/24	0955	10.42	21768087	yes	483.46	Y	H	[illegible]	AB
SG02	HEN_YSG_ILRIVER	4/15/24	1145	19.85	21768088	yes	13.16	Y	H	—	AB

U: 12/19/23 JRK

46.67

61.11

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 05/20/24 14:46:20

JOB DESCRIPTION

HEN-24Q2
HEN_000_RAD

JOB NUMBER

500-249028-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Eurofins Chicago

Job Notes

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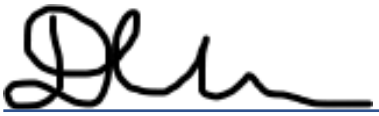

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Authorized for release by
Dirk Nelson, Project Management Assistant II
Dirk.Nelson@et.eurofinsus.com
(708)534-5200

Table of Contents

Case Narrative

Job ID: 500-249028-2 — Eurofins Chicago

Job Narrative
500-249028-2

Receipt
The samples were received on 04/16/24 11:25. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 3.3º C, 4.0º C, 4.2º C, 4.6º C, 4.8º C, 4.8º C, 5.2º C, 5.4º C and 5.6º C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed for sample: HEN_02 (500-249028-13) COC received with sampling time of 1330. Field Data form stated sampling time was 1320. Per field sampler, correct sampling time is 1320.

RAD
Method PrecSep_0: Samples are in batch 657670

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: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R — Lab Sample ID: 500-249028-1

No Detections.

Client Sample ID: HEN_03R_FD — Lab Sample ID: 500-249028-2

No Detections.

Client Sample ID: HEN_12 — Lab Sample ID: 500-249028-5

No Detections.

Client Sample ID: HEN_13 — Lab Sample ID: 500-249028-6

No Detections.

Client Sample ID: HEN_18#S — Lab Sample ID: 500-249028-7

No Detections.

Client Sample ID: HEN_18&D — Lab Sample ID: 500-249028-8

No Detections.

Client Sample ID: HEN_45#S — Lab Sample ID: 500-249028-10

No Detections.

Client Sample ID: HEN_46 — Lab Sample ID: 500-249028-11

No Detections.

Client Sample ID: HEN_47 — Lab Sample ID: 500-249028-12

No Detections.

Client Sample ID: HEN_07 — Lab Sample ID: 500-249028-14

No Detections.

Client Sample ID: HEN_08 — Lab Sample ID: 500-249028-15

No Detections.

Client Sample ID: HEN_08&D — Lab Sample ID: 500-249028-16

No Detections.

Client Sample ID: HEN_16 — Lab Sample ID: 500-249028-18

No Detections.

Client Sample ID: HEN_16_FD — Lab Sample ID: 500-249028-19

No Detections.

Client Sample ID: HEN_17 — Lab Sample ID: 500-249028-20

No Detections.

Client Sample ID: HEN_52 — Lab Sample ID: 500-249028-21

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54 — Lab Sample ID: 500-249028-22

No Detections.

Client Sample ID: HEN_54_FD — Lab Sample ID: 500-249028-23

No Detections.

Client Sample ID: HEN_FB — Lab Sample ID: 500-249028-24

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-249028-1	HEN_03R	Water	04/15/24 15:55	04/16/24 11:25
500-249028-2	HEN_03R_FD	Water	04/15/24 16:15	04/16/24 11:25
500-249028-5	HEN_12	Water	04/15/24 18:15	04/16/24 11:25
500-249028-6	HEN_13	Water	04/15/24 17:25	04/16/24 11:25
500-249028-7	HEN_18#S	Water	04/15/24 14:48	04/16/24 11:25
500-249028-8	HEN_18&D	Water	04/15/24 13:44	04/16/24 11:25
500-249028-10	HEN_45#S	Water	04/15/24 16:05	04/16/24 11:25
500-249028-11	HEN_46	Water	04/15/24 18:00	04/16/24 11:25
500-249028-12	HEN_47	Water	04/15/24 17:10	04/16/24 11:25
500-249028-14	HEN_07	Water	04/16/24 10:05	04/16/24 16:30
500-249028-15	HEN_08	Water	04/16/24 11:00	04/16/24 16:30
500-249028-16	HEN_08&D	Water	04/16/24 10:10	04/16/24 16:30
500-249028-18	HEN_16	Water	04/16/24 11:00	04/16/24 16:30
500-249028-19	HEN_16_FD	Water	04/16/24 11:05	04/16/24 16:30
500-249028-20	HEN_17	Water	04/16/24 11:50	04/16/24 16:30
500-249028-21	HEN_52	Water	04/16/24 12:20	04/16/24 16:30
500-249028-22	HEN_54	Water	04/16/24 12:35	04/16/24 16:30
500-249028-23	HEN_54_FD	Water	04/16/24 12:35	04/16/24 16:30
500-249028-24	HEN_FB	Water	04/16/24 14:30	04/16/24 16:30

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R
Date Collected: 04/15/24 15:55
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-1
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	0.217		0.0999	0.102	1.00	0.115	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	0.818		0.416	0.423	1.00	0.568	pCi/L	04/18/24 08:56	05/10/24 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*
Y Carrier	*82.2*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.04		0.428	0.435	5.00	0.568	pCi/L		05/20/24 13:46	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R_FD

Date Collected: 04/15/24 16:15
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-2

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	0.131		0.0877	0.0885	1.00	0.120	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.2*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	0.848		0.433	0.440	1.00	0.594	pCi/L	04/18/24 08:56	05/10/24 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.2*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*
Y Carrier	*84.1*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*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	0.979		0.442	0.449	5.00	0.594	pCi/L		05/20/24 13:46	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_12
Date Collected: 04/15/24 18:15
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-5
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	0.0772	U	0.0698	0.0701	1.00	0.106	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.7*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	0.512	U	0.346	0.350	1.00	0.515	pCi/L	04/18/24 08:56	05/10/24 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.7*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*
Y Carrier	*83.0*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*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	**0.590**		0.353	0.357	5.00	0.515	pCi/L		05/20/24 13:46	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_13

Date Collected: 04/15/24 17:25
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-6

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	0.0634	U	0.0665	0.0668	1.00	0.105	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	-0.563	U	0.181	0.188	1.00	0.554	pCi/L	04/18/24 08:56	05/10/24 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*
Y Carrier	*81.9*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*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	0.0634	U	0.193	0.200	5.00	0.554	pCi/L		05/20/24 13:46	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18#S

Date Collected: 04/15/24 14:48
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-7

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	**0.153**		0.0917	0.0927	1.00	0.123	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.9*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	0.541	U	0.442	0.444	1.00	0.696	pCi/L	04/18/24 08:56	05/10/24 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.9*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:17*	*1*
Y Carrier	*82.6*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:17*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.693	U	0.451	0.454	5.00	0.696	pCi/L		05/20/24 13:46	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18&D

Date Collected: 04/15/24 13:44
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-8

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	0.170		0.0945	0.0958	1.00	0.121	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	0.664		0.410	0.414	1.00	0.604	pCi/L	04/18/24 08:56	05/10/24 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*1*
Y Carrier	*80.7*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*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	0.834		0.421	0.425	5.00	0.604	pCi/L		05/20/24 13:46	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_45#S

Date Collected: 04/15/24 16:05
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-10

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	**0.195**		0.0948	0.0964	1.00	0.110	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	0.156	U	0.309	0.310	1.00	0.538	pCi/L	04/18/24 08:56	05/10/24 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*1*
Y Carrier	*84.9*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*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	0.351	U	0.323	0.325	5.00	0.538	pCi/L		05/20/24 13:46	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_46

Date Collected: 04/15/24 18:00
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-11

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	0.184		0.0946	0.0960	1.00	0.115	pCi/L	04/18/24 08:50	05/17/24 17:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:33*	*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	0.252	U	0.360	0.361	1.00	0.606	pCi/L	04/18/24 08:56	05/10/24 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*1*
Y Carrier	*83.4*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*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	0.436	U	0.372	0.374	5.00	0.606	pCi/L		05/20/24 13:46	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_47

Date Collected: 04/15/24 17:10
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-12

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	0.104	U	0.0751	0.0757	1.00	0.105	pCi/L	04/18/24 08:50	05/17/24 17:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:56*	*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	0.298	U	0.313	0.315	1.00	0.508	pCi/L	04/18/24 08:56	05/10/24 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*1*
Y Carrier	*83.4*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*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	0.402	U	0.322	0.324	5.00	0.508	pCi/L		05/20/24 13:46	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_07

Date Collected: 04/16/24 10:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-14

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	0.278		0.120	0.122	1.00	0.142	pCi/L	04/19/24 08:06	05/15/24 07:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.1*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:46*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.398	0.409	1.00	0.484	pCi/L	04/19/24 08:10	05/06/24 12:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.1*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:54*	*1*
Y Carrier	*85.6*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:54*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.30		0.416	0.427	5.00	0.484	pCi/L		05/15/24 07:31	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08

Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-15

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	0.311		0.101	0.104	1.00	0.0891	pCi/L	04/19/24 08:06	05/15/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:45*	*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	1.04		0.394	0.405	1.00	0.494	pCi/L	04/19/24 08:10	05/06/24 12:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*1*
Y Carrier	*83.4*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*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	1.35		0.407	0.418	5.00	0.494	pCi/L		05/15/24 07:31	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08&D

Date Collected: 04/16/24 10:10
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-16

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	0.0637	U	0.0771	0.0773	1.00	0.127	pCi/L	04/19/24 08:06	05/15/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:45*	*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	0.350	U	0.361	0.362	1.00	0.584	pCi/L	04/19/24 08:10	05/06/24 12:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*1*
Y Carrier	*87.1*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*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	0.413	U	0.369	0.370	5.00	0.584	pCi/L		05/15/24 07:31	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16

Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-18

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	0.0436	U	0.0589	0.0591	1.00	0.0991	pCi/L	04/19/24 08:06	05/15/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:45*	*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	**0.594**		0.345	0.349	1.00	0.491	pCi/L	04/19/24 08:10	05/06/24 12:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*1*
Y Carrier	*86.4*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.637**		0.350	0.354	5.00	0.491	pCi/L		05/15/24 07:31	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16_FD

Date Collected: 04/16/24 11:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-19

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	0.210		0.0941	0.0960	1.00	0.108	pCi/L	04/19/24 08:06	05/15/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.4*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:45*	*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	0.766		0.380	0.387	1.00	0.515	pCi/L	04/19/24 08:10	05/06/24 12:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.4*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*1*
Y Carrier	*82.2*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*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	0.976		0.391	0.399	5.00	0.515	pCi/L		05/15/24 07:31	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_17

Date Collected: 04/16/24 11:50
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-20

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	0.0181	U	0.0805	0.0805	1.00	0.149	pCi/L	04/19/24 08:06	05/15/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.1*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:45*	*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	**1.08**		0.421	0.432	1.00	0.525	pCi/L	04/19/24 08:10	05/06/24 12:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.1*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*1*
Y Carrier	*85.6*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.09**		0.429	0.439	5.00	0.525	pCi/L		05/15/24 07:31	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_52

Date Collected: 04/16/24 12:20
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-21

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	0.139		0.0939	0.0947	1.00	0.134	pCi/L	04/19/24 08:06	05/15/24 07:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:46*	*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	1.19		0.463	0.476	1.00	0.605	pCi/L	04/19/24 08:10	05/06/24 12:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*1*
Y Carrier	*84.5*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.33		0.472	0.485	5.00	0.605	pCi/L		05/15/24 07:31	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-22
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	**0.149**		0.0845	0.0855	1.00	0.112	pCi/L	04/19/24 08:06	05/15/24 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.7*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:38*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.402	U	0.318	0.320	1.00	0.489	pCi/L	04/19/24 08:10	05/06/24 12:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.7*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*1*
Y Carrier	*87.5*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*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	**0.551**		0.329	0.331	5.00	0.489	pCi/L		05/15/24 07:31	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54_FD

Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-23

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	0.137		0.0848	0.0857	1.00	0.117	pCi/L	04/19/24 08:06	05/15/24 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:38*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.841		0.444	0.451	1.00	0.648	pCi/L	04/19/24 08:10	05/06/24 12:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*1*
Y Carrier	*86.0*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*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	0.978		0.452	0.459	5.00	0.648	pCi/L		05/15/24 07:31	1

Client Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_FB
Date Collected: 04/16/24 14:30
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-24
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	0.0408	U	0.0652	0.0653	1.00	0.113	pCi/L	04/19/24 08:06	05/15/24 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:38*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.243	U	0.326	0.327	1.00	0.546	pCi/L	04/19/24 08:10	05/06/24 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:32*	*1*
Y Carrier	*86.0*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:32*	*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	0.283	U	0.332	0.333	5.00	0.546	pCi/L		05/15/24 07:31	1

Definitions/Glossary

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Qualifiers

Rad

Qualifier	Qualifier Description
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: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Rad

Prep Batch: 657596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-1	HEN_03R	Total/NA	Water	PrecSep-21	
500-249028-2	HEN_03R_FD	Total/NA	Water	PrecSep-21	
500-249028-5	HEN_12	Total/NA	Water	PrecSep-21	
500-249028-6	HEN_13	Total/NA	Water	PrecSep-21	
500-249028-7	HEN_18#S	Total/NA	Water	PrecSep-21	
500-249028-8	HEN_18&D	Total/NA	Water	PrecSep-21	
500-249028-10	HEN_45#S	Total/NA	Water	PrecSep-21	
500-249028-11	HEN_46	Total/NA	Water	PrecSep-21	
500-249028-12	HEN_47	Total/NA	Water	PrecSep-21	
MB 160-657596/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-657596/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-249028-2 DU	HEN_03R_FD	Total/NA	Water	PrecSep-21	

Prep Batch: 657597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-1	HEN_03R	Total/NA	Water	PrecSep_0	
500-249028-2	HEN_03R_FD	Total/NA	Water	PrecSep_0	
500-249028-5	HEN_12	Total/NA	Water	PrecSep_0	
500-249028-6	HEN_13	Total/NA	Water	PrecSep_0	
500-249028-7	HEN_18#S	Total/NA	Water	PrecSep_0	
500-249028-8	HEN_18&D	Total/NA	Water	PrecSep_0	
500-249028-10	HEN_45#S	Total/NA	Water	PrecSep_0	
500-249028-11	HEN_46	Total/NA	Water	PrecSep_0	
500-249028-12	HEN_47	Total/NA	Water	PrecSep_0	
MB 160-657597/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-657597/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-249028-2 DU	HEN_03R_FD	Total/NA	Water	PrecSep_0	

Prep Batch: 657669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-14	HEN_07	Total/NA	Water	PrecSep-21	
500-249028-15	HEN_08	Total/NA	Water	PrecSep-21	
500-249028-16	HEN_08&D	Total/NA	Water	PrecSep-21	
500-249028-18	HEN_16	Total/NA	Water	PrecSep-21	
500-249028-19	HEN_16_FD	Total/NA	Water	PrecSep-21	
500-249028-20	HEN_17	Total/NA	Water	PrecSep-21	
500-249028-21	HEN_52	Total/NA	Water	PrecSep-21	
500-249028-22	HEN_54	Total/NA	Water	PrecSep-21	
500-249028-23	HEN_54_FD	Total/NA	Water	PrecSep-21	
500-249028-24	HEN_FB	Total/NA	Water	PrecSep-21	
MB 160-657669/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-657669/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 657670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-14	HEN_07	Total/NA	Water	PrecSep_0	
500-249028-15	HEN_08	Total/NA	Water	PrecSep_0	
500-249028-16	HEN_08&D	Total/NA	Water	PrecSep_0	
500-249028-18	HEN_16	Total/NA	Water	PrecSep_0	
500-249028-19	HEN_16_FD	Total/NA	Water	PrecSep_0	
500-249028-20	HEN_17	Total/NA	Water	PrecSep_0	

QC Association Summary

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Rad (Continued)

Prep Batch: 657670 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-21	HEN_52	Total/NA	Water	PrecSep_0	
500-249028-22	HEN_54	Total/NA	Water	PrecSep_0	
500-249028-23	HEN_54_FD	Total/NA	Water	PrecSep_0	
500-249028-24	HEN_FB	Total/NA	Water	PrecSep_0	
MB 160-657670/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-657670/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-657596/1-A
Matrix: Water
Analysis Batch: 662207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657596

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0007863	U	0.0639	0.0639	1.00	0.129	pCi/L	04/18/24 08:50	05/17/24 17:33	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:33*	*1*

Lab Sample ID: LCS 160-657596/2-A
Matrix: Water
Analysis Batch: 662207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657596

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.26		1.17	1.00	0.127	pCi/L	99	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.4*		*30 - 110*

Lab Sample ID: 500-249028-2 DU
Matrix: Water
Analysis Batch: 662207

Client Sample ID: HEN_03R_FD
Prep Type: Total/NA
Prep Batch: 657596

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.131			0.1381		0.0871	1.00	0.118	pCi/L			0.04	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*98.0*		*30 - 110*

Lab Sample ID: MB 160-657669/1-A
Matrix: Water
Analysis Batch: 661646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657669

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04735	U	0.0534	0.0536	1.00	0.0854	pCi/L	04/19/24 08:06	05/15/24 07:30	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:30*	*1*

Lab Sample ID: LCS 160-657669/2-A
Matrix: Water
Analysis Batch: 661646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657669

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.10		1.15	1.00	0.0918	pCi/L	98	75 - 125		

QC Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

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

Lab Sample ID: LCS 160-657669/2-A
Matrix: Water
Analysis Batch: 661646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657669

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.4		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-657597/1-A
Matrix: Water
Analysis Batch: 661118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657597

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3827	U	0.395	0.396	1.00	0.639	pCi/L	04/18/24 08:56	05/10/24 12:16	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110	04/18/24 08:56	05/10/24 12:16	1
Y Carrier	82.6		30 - 110	04/18/24 08:56	05/10/24 12:16	1

Lab Sample ID: LCS 160-657597/2-A
Matrix: Water
Analysis Batch: 661118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657597

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.95	9.256		1.27	1.00	0.487	pCi/L	103	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.4		30 - 110
Y Carrier	84.9		30 - 110

Lab Sample ID: 500-249028-2 DU
Matrix: Water
Analysis Batch: 661118

Client Sample ID: HEN_03R_FD
Prep Type: Total/NA
Prep Batch: 657597

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.848			1.010		0.454	1.00	0.604	pCi/L			0.18	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	98.0		30 - 110
Y Carrier	81.9		30 - 110

Lab Sample ID: MB 160-657670/1-A
Matrix: Water
Analysis Batch: 660062

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657670

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5136		0.330	0.333	1.00	0.485	pCi/L	04/19/24 08:10	05/06/24 12:34	1

QC Sample Results

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

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

Lab Sample ID: MB 160-657670/1-A
Matrix: Water
Analysis Batch: 660062

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657670

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		30 - 110	04/19/24 08:10	05/06/24 12:34	1
Y Carrier	83.4		30 - 110	04/19/24 08:10	05/06/24 12:34	1

Lab Sample ID: LCS 160-657670/2-A
Matrix: Water
Analysis Batch: 660062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657670

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.97	9.488		1.28	1.00	0.472	pCi/L	106	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.4		30 - 110
Y Carrier	86.0		30 - 110

Lab Chronicle

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R
Date Collected: 04/15/24 15:55
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661118	SCB	EET SL	05/10/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_03R_FD
Date Collected: 04/15/24 16:15
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661118	SCB	EET SL	05/10/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_12
Date Collected: 04/15/24 18:15
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661118	SCB	EET SL	05/10/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_13
Date Collected: 04/15/24 17:25
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661118	SCB	EET SL	05/10/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Lab Chronicle

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18#S
Date Collected: 04/15/24 14:48
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661118	SCB	EET SL	05/10/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_18&D
Date Collected: 04/15/24 13:44
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661128	FLC	EET SL	05/10/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_45#S
Date Collected: 04/15/24 16:05
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661128	FLC	EET SL	05/10/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_46
Date Collected: 04/15/24 18:00
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662204	SWS	EET SL	05/17/24 17:33
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661128	FLC	EET SL	05/10/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Lab Chronicle

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_47
Date Collected: 04/15/24 17:10
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662208	SWS	EET SL	05/17/24 17:56
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661128	FLC	EET SL	05/10/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_07
Date Collected: 04/16/24 10:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:46
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:54
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_08
Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:45
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_08&D
Date Collected: 04/16/24 10:10
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:45
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Lab Chronicle

Client Sample ID: HEN_16
Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:45
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_16_FD
Date Collected: 04/16/24 11:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:45
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_17
Date Collected: 04/16/24 11:50
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:45
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_52
Date Collected: 04/16/24 12:20
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:46
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Lab Chronicle

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661816	SWS	EET SL	05/15/24 07:38
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_54_FD
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661816	SWS	EET SL	05/15/24 07:38
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_FB
Date Collected: 04/16/24 14:30
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661816	SWS	EET SL	05/15/24 07:38
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660062	FLC	EET SL	05/06/24 12:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

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: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-24

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

Analysis Method	Prep Method	Matrix	Analyte
903.0	PrecSep-21	Water	Radium-226
904.0	PrecSep_0	Water	Radium-228
Ra226_Ra228 Pos		Water	Radium 226 and 228

500-249028

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E 800th St Hennepin, IL 61327	Copy To:	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	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:	50023030	Profile #:	

500 249028 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_RAD_000	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I.D.
~~1~~	~~HEN_02~~																						X			A			~~SHORT HOLD-NO2~~
1	HEN_03R	WT	G	4/15/24	1555		15										X				X		X		X	B			SHORT HOLD-NO2
2	HEN_03R_FD	"	"	"	1615		15										X				X		X		X	B			SHORT HOLD-NO2
3	HEN_05IR	"	"	"	1432		11													X						E			SHORT HOLD-NO2
4	HEN_05&DR	"	"	"	1515		11													X						E			SHORT HOLD-NO2
	~~HEN_07~~																~~X~~	~~X~~			~~X~~	~~X~~	~~X~~		~~X~~	~~B~~			~~SHORT HOLD-NO2~~
	~~HEN_08~~																~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~		~~C~~			~~SHORT HOLD-NO2~~
	~~HEN_08&D~~																~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~		~~C~~			~~SHORT HOLD-NO2~~
	~~HEN_10~~																			~~X~~				~~X~~		~~D~~			~~SHORT HOLD-NO2~~
5	HEN_12	WT	G	4/15/24	1815		13											X		X		X				X	F			SHORT HOLD-NO2
6	HEN_13	"	"	"	1725		13											X		X		X				X	F			SHORT HOLD-NO2
	~~HEN_16~~																	~~X~~				~~X~~				~~X~~	~~G~~			
	~~HEN_16_FD~~																	~~X~~				~~X~~				~~X~~	~~G~~			
	~~HEN_17~~																	~~X~~				~~X~~				~~X~~	~~G~~			
7	HEN_18#S	WT	G	4/15/24	1448		15										X				X		X		X	B			SHORT HOLD-NO2
8	HEN_18&D	"	"	"	1344		15										X				X		X		X	B			SHORT HOLD-NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	ABeckett-BA	4/16/24	0930				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Beckett DATE Signed (MM/DD/YY): 4/16/24 @ 0930

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

Jason Blehm 4/16/24 0930 EETA

Allison Richards 4/16/24 1125 EETA

Allison Scott 4/16/24 1125 EETA

5.2 → 4.8
5.0 → 4.6
4.6 → 4.2
5.8 → 5.4
6.0 → 5.6

560-244028

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 2 of 3

Section A Required Client Information.

Company:	Vistra Corp-Hennepin
Address:	13498 E 800th St Hennepin, IL 61327
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 Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No.	
Project Name	
Project Number:	50023030

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: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN_24R~~																		X				X		X	X	H		
	~~HEN_22~~																		X				X		X	X	H		
	~~HEN_22&D~~																		X				X		X	X	H		
	~~HEN_23~~																		X				X		X	X	H		
	~~HEN_25~~																		X								J		~~DTW ONLY~~
	~~HEN_26~~																		X								J		~~DTW ONLY~~
	~~HEN_27~~																		X				X		X	X	H		
	~~HEN_30~~																		X								J		~~DTW ONLY~~
	~~HEN_31~~																		X								J		~~DTW ONLY~~
	~~HEN_32~~																		X				X		X	X	H		
	~~HEN_33~~																		X								J		~~DTW ONLY~~
	~~HEN_34~~																		X				X		X	X	H		
	~~HEN_35~~																		X				X		X	X	H		
	~~HEN_35_FD~~																		X				X		X	X	H		
	~~HEN_36~~																		X								J		~~DTW ONLY~~
9	HEN_40#S	WTG		4/15/24	1345		11													X							E		SHORT HOLD-NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	[signature]	4/16/24	0930				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible] BELNETT

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 4/16/24 @ 0930

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

[signature] 4/16/24 0930 EETA

[signature] 4/16/24 1125 EETA

[signature] 4/16/24 1125 EETA

500 - 249128

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-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
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 Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No.	
Project Name	
Project Number	50023030

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: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I.D.
10	HEN_45#S	WT	G	4/15/24	1005		15										X				X			X		X	B			SHORT HOLD-NO2
11	HEN_46	WT	G		1800		6											X				X				X	G			
12	HEN_47	WT	G		1710		6											X				X				X	G			
	~~HEN_49~~																		X				X		X	X	H			
	~~HEN_50~~																		X				X		X	X	H			
	~~HEN_51~~																		X				X		X	X	H			
	~~HEN_52~~																	X				X				X	G			
	~~HEN_54~~																	X				X				X	G			
	HEN_54_FD																	X				X				X	G			
	~~HEN_55~~																	X				X					J			DTW ONLY
	~~HEN_XSG01~~																	X				X					J			DTW ONLY
	~~HEN_YSG_ILRIVER~~																X	X	X		X	X	X	X	X		J			DTW ONLY
	~~HEN_FB~~																			X	X			X		X	C			SHORT HOLD-NO2
	~~HEN_TB~~																							X			A			BTEX ONLY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	Allison Bickett	4/16/24	0930				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Bickett

SIGNATURE of SAMPLER: Allison Bickett

DATE Signed (MM/DD/YY): 4/16/24 0930

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

Allison Bickett 4/16/24 0930 EETA
Allison Bickett 4/16/24 1125
Allison Scott 4/16/24 1125 EETA

500-249028-B
HENNEPIN 803
HEN-845-803

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 2

Section A Required Client Information.		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address	13498 E 800th St	Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327			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:	50023030	Profile #:	

500-249028 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_RAD_000	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I.D.
13	HEN_02	WT	G	4/16/24	1330		10																	X			A		SHORT HOLD-NO2
~~	~~HEN_03R~~																X				X			X		X	B			~~SHORT HOLD-NO2~~
~~	~~HEN_03R_FD~~																X				X			X		X	B			~~SHORT HOLD-NO2~~
~~	~~HEN_05IR~~																			X							E		~~SHORT HOLD-NO2~~
~~	~~HEN_05&DR~~																			X							E		~~SHORT HOLD-NO2~~
14	HEN_07	WT	G	4/16/24	1005		15										X	X			X	X		X		X	B			SHORT HOLD-NO2
15	HEN_08	↓	↓	↓	1100		17										X	X		X	X	X		X		X	C			SHORT HOLD-NO2
16	HEN_08&D				1010		17										X	X		X	X	X		X		X	C			SHORT HOLD-NO2
17	HEN_10				1305		15													X				X			D			SHORT HOLD-NO2
~~	~~HEN_12~~																	X		X		X				X	F			~~SHORT HOLD-NO2~~
~~	~~HEN_13~~																	X		X		X				X	F			~~SHORT HOLD-NO2~~
18	HEN_16	WT	G	4/16/24	1100		6											X				X				X	G			
19	HEN_16_FD				1105		6											X				X				X	G			
20	HEN_17				1150		6											X				X				X	G			
~~	~~HEN_18#S~~																X				X			X		X	B			~~SHORT HOLD-NO2~~
~~	~~HEN_18&D~~																X				X			X		X	B			~~SHORT HOLD-NO2~~

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	Becker	4/16/24	1630				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Becker

SIGNATURE of SAMPLER: Becker DATE Signed (MM/DD/YY): 4/16/24

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

5.6 → 5.2
3.7 → 3.3
4.4 → 4.0
5.2 → 4.8

Relinquished by 1430
Received by 1630
Allison Becker 4/16/24 1630

500 HENNEPIN 803
HEN-845-803

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 2 of 2

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address	13498 E. 800th St Hennepin, IL 61327
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 Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No.	
Project Name	
Project Number:	50023030

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: 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: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000			Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN_45#S~~																X				X			X		X	B				~~SHORT HOLD-NO2~~
	~~HEN_46~~																	X				X					X	G				
	~~HEN_47~~																	X				X					X	G				
	~~HEN_48~~																		X				X		X	X	X	H				
	~~HEN_50~~																		X				X		X	X	X	H				
	~~HEN_51~~																		X				X		X	X	X	H				
21	HEN_52	WT	G	4/16/24	1220		6											X				X				X	G				
22	HEN_54	↓	↓	↓	1235		6											X				X				X	G				
23	HEN_54_FD	↓	↓	↓	1235		6											X				X				X	G				
	~~HEN_55~~																	X				X			>		J				~~DTW ONLY~~
	~~HEN_XBG01~~																	X				X					J				~~DTW ONLY~~
	~~HEN_YSG_ILRIVER~~																X	X	X		X	X	X	X	X		J				~~DTW ONLY~~
24	HEN_FB	WT	G	4/16/24	1430		17													X	X			X		X	C				SHORT HOLD-NO2
	~~HEN_TB~~																							X			A				BTEX ONLY
25	HEN_TB1																														Added by EESA
26	HEN_TB2																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	Becker	4/16/24	1630				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Becker

SIGNATURE of SAMPLER: Becker DATE Signed (MM/DD/YY): 4/16/24

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

Lorne Filby 1430

David Filby 1630 Allison Scott 4/16/24 1630

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: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-187037.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-249028-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/15/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
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 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_03R (500-249028-1)	4/15/24	15:55 Central		Water			X	X	X	2	
HEN_03R_FD (500-249028-2)	4/15/24	16:15 Central		Water			X	X	X	2	
HEN_12 (500-249028-5)	4/15/24	18:15 Central		Water			X	X	X	2	
HEN_13 (500-249028-6)	4/15/24	17:25 Central		Water			X	X	X	2	
HEN_18#S (500-249028-7)	4/15/24	14:40 Central		Water			X	X	X	2	
HEN_18&D (500-249028-8)	4/15/24	13:44 Central		Water			X	X	X	2	
HEN_45#S (500-249028-10)	4/15/24	16:05 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
Stephanie Hernandez	4/16/24 1630	EETA	Richard Thornley	APR 17 2024 0820	ETASTL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

05/20/24

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-187037.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-249028-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 4/30/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
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 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_46 (500-249028-11)	4/15/24	18:00 Central		Water			X	X	X	2	
HEN_47 (500-249028-12)	4/15/24	17:10 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	Stephanie Hemrmdez	4/16/24 1630	EEIA	Richard Thornley	APR 17 2024 0820	EEASTL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

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: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-187037.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-249028-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/15/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
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 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_03R (500-249028-1)	4/15/24	15:55 Central		Water			X	X	X	2	
HEN_03R_FD (500-249028-2)	4/15/24	16:15 Central		Water			X	X	X	2	
HEN_12 (500-249028-5)	4/15/24	18:15 Central		Water			X	X	X	2	
HEN_13 (500-249028-6)	4/15/24	17:25 Central		Water			X	X	X	2	
HEN_18#S (500-249028-7)	4/15/24	14:40 Central		Water			X	X	X	2	
HEN_18&D (500-249028-8)	4/15/24	13:44 Central		Water			X	X	X	2	
HEN_45#S (500-249028-10)	4/15/24	16:05 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
1	Stephanie Hernandez	4/16/24 1630	EETA	Richard Thornley	APR 17 2024 0800	ETASTL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

05/20/24

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-187037.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-249028-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 4/30/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
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 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_46 (500-249028-11)	4/15/24	18:00 Central		Water			X	X	X	2	
HEN_47 (500-249028-12)	4/15/24	17:10 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
Stephanie Hemrmdez	4/16/24 1630	EETA	Richard Thornley	APR 17 2024 0850	ETHSTL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

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: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-187070.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-249028-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/15/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_07 (500-249028-14)	4/16/24	10:05 Central		Water			X	X	X	2	
HEN_08 (500-249028-15)	4/16/24	11:00 Central		Water			X	X	X	2	
HEN_08&D (500-249028-16)	4/16/24	10:10 Central		Water			X	X	X	2	
HEN_16 (500-249028-18)	4/16/24	11:00 Central		Water			X	X	X	2	
HEN_16_FD (500-249028-19)	4/16/24	11:05 Central		Water			X	X	X	2	
HEN_17 (500-249028-20)	4/16/24	11:50 Central		Water			X	X	X	2	
HEN_52 (500-249028-21)	4/16/24	12:20 Central		Water			X	X	X	2	
HEN_54 (500-249028-22)	4/16/24	12:35 Central		Water			X	X	X	2	
HEN_54_FD (500-249028-23)	4/16/24	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 *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
Shri Soots	4/17/24 1240				
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: APR 18 2024 0840	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: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-187070.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-249028-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/15/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
-

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 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_FB (500-249028-24)	4/16/24	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	*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:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:		

Relinquished by: Shirley Scott — Date/Time: 4/17/24 1240
Received by: M. Pinette — Date/Time: APR 18 2024 0840

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-249028-2
SDG Number: HEN_000_RAD

Login Number: 249028
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8,4.6,4.2,5.4,5.6,5.2,3.3,4.0,4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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: 500-249028-2
SDG Number: HEN_000_RAD

Login Number: 249028
List Number: 3
Creator: Thornley, Richard W

List Source: Eurofins St. Louis
List Creation: 04/17/24 02:37 PM

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

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-249028-2
SDG Number: HEN_000_RAD

Login Number: 249028
List Number: 5
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 04/18/24 01:59 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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Tracer/Carrier Summary

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Ba (30-110)
500-249028-1	HEN_03R	85.8
500-249028-2	HEN_03R_FD	82.2
500-249028-2 DU	HEN_03R_FD	98.0
500-249028-5	HEN_12	96.7
500-249028-6	HEN_13	90.9
500-249028-7	HEN_18#S	93.9
500-249028-8	HEN_18&D	88.6
500-249028-10	HEN_45#S	88.6
500-249028-11	HEN_46	88.1
500-249028-12	HEN_47	98.5
500-249028-14	HEN_07	89.1
500-249028-15	HEN_08	101
500-249028-16	HEN_08&D	90.6
500-249028-18	HEN_16	92.6
500-249028-19	HEN_16_FD	95.4
500-249028-20	HEN_17	91.1
500-249028-21	HEN_52	94.9
500-249028-22	HEN_54	96.7
500-249028-23	HEN_54_FD	97.7
500-249028-24	HEN_FB	89.3
LCS 160-657596/2-A	Lab Control Sample	95.4
LCS 160-657669/2-A	Lab Control Sample	94.4
MB 160-657596/1-A	Method Blank	87.6
MB 160-657669/1-A	Method Blank	97.7

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-249028-1	HEN_03R	85.8	82.2
500-249028-2	HEN_03R_FD	82.2	84.1
500-249028-2 DU	HEN_03R_FD	98.0	81.9
500-249028-5	HEN_12	96.7	83.0
500-249028-6	HEN_13	90.9	81.9
500-249028-7	HEN_18#S	93.9	82.6
500-249028-8	HEN_18&D	88.6	80.7
500-249028-10	HEN_45#S	88.6	84.9
500-249028-11	HEN_46	88.1	83.4
500-249028-12	HEN_47	98.5	83.4
500-249028-14	HEN_07	89.1	85.6
500-249028-15	HEN_08	101	83.4
500-249028-16	HEN_08&D	90.6	87.1
500-249028-18	HEN_16	92.6	86.4
500-249028-19	HEN_16_FD	95.4	82.2
500-249028-20	HEN_17	91.1	85.6

Tracer/Carrier Summary

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

Job ID: 500-249028-2
SDG: HEN_000_RAD

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

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-249028-21	HEN_52	94.9	84.5
500-249028-22	HEN_54	96.7	87.5
500-249028-23	HEN_54_FD	97.7	86.0
500-249028-24	HEN_FB	89.3	86.0
LCS 160-657597/2-A	Lab Control Sample	95.4	84.9
LCS 160-657670/2-A	Lab Control Sample	94.4	86.0
MB 160-657597/1-A	Method Blank	87.6	82.6
MB 160-657670/1-A	Method Blank	97.7	83.4

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

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

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
12	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	21	100	All ND - Last	0.003	0.001
12	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	26	100	All ND - Last	0.001	0.001
12	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	0.0527	0.212
12	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.001	0.001
12	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	29	0	CB around T-S line	0.0437	0.163
12	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	30	90	CI around median	0.001	0.00230
12	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	70.5	435
12	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	26	97	CB around T-S line	0.0015	0.00100
12	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	24	83	Most recent sample	0.001	0.0380
12	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	29	2	CI around median	0.23	0.120
12	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	26	100	All ND - Last	0.0005	0.00150
12	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	25	4	CB around linear reg	0.00615	0.0190
12	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0002	0.0002
12	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	28	0	CB around linear reg	0.0102	0.00170
12	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	36	0	CI around mean	7.3/7.4	6.6/7.5
12	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.354	2.00
12	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	28	59	CI around median	0.001	0.00140
12	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	64.3	215
12	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.002	0.001
12	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	464	1,620
13	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	21	96	CB around T-S line	0.001	0.001
13	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	26	97	CI around median	0.001	0.001
13	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	0.0433	0.212
13	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.001	0.001
13	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	0.553	0.163
13	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	30	98	CI around median	0.001	0.00230
13	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	73.5	435

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
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HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
13	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	26	86	CB around T-S line	0.00171	0.00100
13	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	24	83	Most recent sample	0.001	0.0380
13	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	29	2	CI around median	0.2	0.120
13	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	26	97	CI around median	0.001	0.00150
13	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	0.0162	0.0190
13	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0002	0.0002
13	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	28	26	CI around mean	0.0144	0.00170
13	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	36	0	CI around mean	7.4/7.5	6.6/7.5
13	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around mean	0.464	2.00
13	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	28	46	CI around mean	0.00134	0.00140
13	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	77.1	215
13	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.002	0.001
13	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	483	1,620
46	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.003	0.001
46	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.001	0.001
46	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0668	0.212
46	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.001	0.001
46	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	0.2	0.163
46	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0005	0.00230
46	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	70.1	435
46	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	22	91	CB around T-S line	0.0015	0.00100
46	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.001	0.0380
46	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	25	4	CI around median	0.23	0.120
46	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.0005	0.00150
46	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	24	4	CI around median	0.0089	0.0190
46	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.0002	0.0002
46	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	24	0	CB around T-S line	0.0106	0.00170

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
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HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
46	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	25	0	CB around linear reg	7.0/7.3	6.6/7.5
46	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.319	2.00
46	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	24	62	CI around median	0.001	0.00140
46	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	25	0	CI around geomean	62.8	215
46	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.002	0.001
46	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	25	0	CB around linear reg	463	1,620
47	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.003	0.001
47	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	22	96	CI around median	0.001	0.001
47	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0848	0.212
47	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.001	0.001
47	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	25	0	CI around geomean	0.219	0.163
47	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0005	0.00230
47	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	74.2	435
47	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	22	96	CB around T-S line	0.00128	0.00100
47	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	23	83	CI around median	0.001	0.0380
47	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	25	4	CB around T-S line	0.217	0.120
47	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.0005	0.00150
47	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	24	0	CI around mean	0.00843	0.0190
47	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.0002	0.0002
47	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0137	0.00170
47	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	25	0	CI around mean	7.0/7.1	6.6/7.5
47	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.317	2.00
47	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	23	87	CB around T-S line	0.001	0.00140
47	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	64.6	215
47	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.002	0.001
47	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	25	0	CB around linear reg	501	1,620
52	UA	E005	Antimony, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.003	0.001

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
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HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
52	UA	E005	Arsenic, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.001
52	UA	E005	Barium, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0738	0.212
52	UA	E005	Beryllium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.001
52	UA	E005	Boron, total	mg/L	02/24/21 - 04/16/24	14	0	CI around geomean	0.141	0.163
52	UA	E005	Cadmium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.00230
52	UA	E005	Chloride, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	73.4	435
52	UA	E005	Chromium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.005	0.00100
52	UA	E005	Cobalt, total	mg/L	02/24/21 - 04/16/24	14	93	Most recent sample	0.001	0.0380
52	UA	E005	Fluoride, total	mg/L	02/24/21 - 04/16/24	14	7	CI around geomean	0.264	0.120
52	UA	E005	Lead, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.00150
52	UA	E005	Lithium, total	mg/L	02/24/21 - 04/16/24	14	14	CI around mean	0.00519	0.0190
52	UA	E005	Mercury, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0002	0.0002
52	UA	E005	Molybdenum, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0107	0.00170
52	UA	E005	pH (field)	SU	02/24/21 - 04/16/24	14	0	CI around mean	7.0/7.3	6.6/7.5
52	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 04/16/24	14	0	CI around mean	0.429	2.00
52	UA	E005	Selenium, total	mg/L	02/24/21 - 04/16/24	14	93	CB around T-S line	0.001	0.00140
52	UA	E005	Sulfate, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	60.8	215
52	UA	E005	Thallium, total	mg/L	02/24/21 - 04/16/24	14	93	CI around median	0.002	0.001
52	UA	E005	Total Dissolved Solids	mg/L	02/24/21 - 04/16/24	13	0	CI around mean	447	1,620
54	UA	E005	Antimony, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.003	0.001
54	UA	E005	Arsenic, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.001
54	UA	E005	Barium, total	mg/L	02/24/21 - 04/16/24	14	0	CB around linear reg	0.0409	0.212
54	UA	E005	Beryllium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.001
54	UA	E005	Boron, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.5	0.163
54	UA	E005	Cadmium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.00230
54	UA	E005	Chloride, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	78.4	435
54	UA	E005	Chromium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.005	0.00100

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
54	UA	E005	Cobalt, total	mg/L	02/24/21 - 04/16/24	14	86	CI around median	0.001	0.0380
54	UA	E005	Fluoride, total	mg/L	02/24/21 - 04/16/24	14	7	CB around T-S line	-0.242	0.120
54	UA	E005	Lead, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.00150
54	UA	E005	Lithium, total	mg/L	02/24/21 - 04/16/24	14	0	CI around median	0.012	0.0190
54	UA	E005	Mercury, total	mg/L	02/24/21 - 04/16/24	14	93	CI around median	0.0002	0.0002
54	UA	E005	Molybdenum, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0217	0.00170
54	UA	E005	pH (field)	SU	02/24/21 - 04/16/24	14	0	CI around mean	7.0/7.4	6.6/7.5
54	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 04/16/24	14	0	CI around mean	0.187	2.00
54	UA	E005	Selenium, total	mg/L	02/24/21 - 04/16/24	14	50	CB around linear reg	0.00195	0.00140
54	UA	E005	Sulfate, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	77.4	215
54	UA	E005	Thallium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.002	0.001
54	UA	E005	Total Dissolved Solids	mg/L	02/24/21 - 04/16/24	12	0	CI around mean	494	1,620

Notes:
Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value
HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

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

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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