



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

April 22, 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 West Ash Pond System; IEPA ID # W1550100002-01 and
W1550100002-03**

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(b)(3)(D), Dynegy Midwest Generation, LLC is submitting groundwater monitoring data for the Quarter 1, 2024 sampling event at the Hennepin Power Plant West Ash Pond System, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1550100002-01 and No. W1550100002-03. 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.

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

As allowed in 35 I.A.C. § 845.650(e), an alternative source demonstration (ASD) was submitted on November 10, 2023 for the exceedance of the cadmium GWPS detected during the Quarter 2, 2023 sampling event. Exceedances of cadmium were detected during the Quarter 1, 2024 sampling event in the same monitoring wells identified in the approved ASD. The IEPA provided a written concurrence with the ASD on December 11, 2023. The approved ASD for cadmium remains to be valid for the Quarter 1, 2024 GWPS exceedances.

A Corrective Measures Assessment (CMA) for the remaining GWPS exceedances of arsenic, boron, lithium, sulfate, and total dissolved solids was initiated on December 10, 2023 in accordance with 35 I.A.C. § 845.660, and a CMA extension request was submitted to IEPA on December 11, 2023 and approved on December 12, 2023. GWPS exceedances for subsequent events will be incorporated into the CMA on a case by case basis, as opposed to generating a new CMA.

Sincerely,

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

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

Enclosures

*Groundwater Monitoring Data and Detected Exceedances, Quarter 1, 2024, West Ash Pond System,
Hennepin Power Plant, Hennepin, Illinois*

35 I.A.C. § 845.610(B)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 1, 2024
WEST ASH POND SYSTEM, HENNEPIN POWER PLANT, HENNEPIN, ILLINOIS

April 22, 2024

Samples were collected between January 23 and 24, 2024 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on February 22, 2024.

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

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

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

As allowed in 35 I.A.C. § 845.650(e), an alternative source demonstration² (ASD) was submitted on November 10, 2023 for the exceedance of the cadmium GWPS detected during the Quarter 2, 2023 sampling event. Exceedances of cadmium were detected during the Quarter 1, 2024 sampling event in the same monitoring wells identified in the approved ASD. The Illinois Environmental Protection Agency (IEPA) provided a written concurrence with the ASD on December 11, 2023³. The approved ASD for cadmium remains to be valid for the Quarter 1, 2024 GWPS exceedances.

A Corrective Measures Assessment (CMA) for the remaining GWPS exceedances of arsenic, boron, lithium, sulfate, and total dissolved solids was initiated on December 10, 2023 in accordance with 35 I.A.C. § 845.660, and a CMA extension request was submitted to IEPA on December 11, 2023 and approved on December 12, 2023. GWPS exceedances for subsequent events will be incorporated into the CMA on a case by case basis, as opposed to generating a new CMA.

¹ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan Addendum for the West Ash Pond System. Hennepin Power Plant. Hennepin, Illinois. October 25, 2021.*

² Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023. 35 I.A.C. § 845.650(E): *Alternative Source Demonstration, West Ash Pond System, Hennepin Power Plant, Hennepin, IL, IEPA ID: W1550100002-01 and W1550100002-03. November 10, 2023.*

³ Illinois Environmental Protection Agency (IEPA), 2023. *Letter from Michael Summers (IEPA) to Phil Morris (Dynegy Midwest Generation, LLC): Re: Hennepin Power Plant West Ash Pond System; W1550100002-01 & 03, Alternative Source Demonstration (ASD) Submittal. December 11, 2023.*

TABLES

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

FIGURES

Figure 1	Monitoring Well Location Map
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ATTACHMENTS

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

TABLES

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
32	Background	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
32	Background	E004	01/23/2024	Arsenic, total	0.00054 J	mg/L
32	Background	E004	01/23/2024	Barium, total	0.0410	mg/L
32	Background	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
32	Background	E004	01/23/2024	Boron, total	0.160	mg/L
32	Background	E004	01/23/2024	Cadmium, total	0.00017 J	mg/L
32	Background	E004	01/23/2024	Calcium, total	100	mg/L
32	Background	E004	01/23/2024	Chloride, total	72.0	mg/L
32	Background	E004	01/23/2024	Chromium, total	0.0014 J	mg/L
32	Background	E004	01/23/2024	Cobalt, total	0.00130	mg/L
32	Background	E004	01/23/2024	Dissolved Oxygen	-0.0700	mg/L
32	Background	E004	01/23/2024	Fluoride, total	0.110	mg/L
32	Background	E004	01/23/2024	Lead, total	0.000550	mg/L
32	Background	E004	01/23/2024	Lithium, total	0.002 U	mg/L
32	Background	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
32	Background	E004	01/23/2024	Molybdenum, total	0.0025 U	mg/L
32	Background	E004	01/23/2024	Oxidation Reduction Potential	157	mV
32	Background	E004	01/23/2024	pH (field)	7.2	SU
32	Background	E004	01/23/2024	Radium 226 + Radium 228, total	0.553	pCi/L
32	Background	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
32	Background	E004	01/23/2024	Specific Conductance @ 25C (field)	1,001	micromhos/cm
32	Background	E004	01/23/2024	Sulfate, total	80.0	mg/L
32	Background	E004	01/23/2024	Temperature	10.2	degrees C
32	Background	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
32	Background	E004	01/23/2024	Total Dissolved Solids	580	mg/L
32	Background	E004	01/23/2024	Turbidity, field	29.7	NTU
34	Background	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
34	Background	E004	01/23/2024	Arsenic, total	0.00081 J	mg/L
34	Background	E004	01/23/2024	Barium, total	0.120	mg/L
34	Background	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
34	Background	E004	01/23/2024	Boron, total	0.130	mg/L
34	Background	E004	01/23/2024	Cadmium, total	0.00017 U	mg/L
34	Background	E004	01/23/2024	Calcium, total	170	mg/L
34	Background	E004	01/23/2024	Chloride, total	72.0	mg/L
34	Background	E004	01/23/2024	Chromium, total	0.0012 J	mg/L
34	Background	E004	01/23/2024	Cobalt, total	0.0004 U	mg/L
34	Background	E004	01/23/2024	Dissolved Oxygen	-0.270	mg/L
34	Background	E004	01/23/2024	Fluoride, total	0.140	mg/L
34	Background	E004	01/23/2024	Lead, total	0.000570	mg/L
34	Background	E004	01/23/2024	Lithium, total	0.0100	mg/L
34	Background	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
34	Background	E004	01/23/2024	Molybdenum, total	0.0025 U	mg/L
34	Background	E004	01/23/2024	Oxidation Reduction Potential	-148	mV
34	Background	E004	01/23/2024	pH (field)	7.1	SU
34	Background	E004	01/23/2024	Radium 226 + Radium 228, total	1.1	pCi/L
34	Background	E004	01/23/2024	Selenium, total	0.00098 U	mg/L

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HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
34	Background	E004	01/23/2024	Specific Conductance @ 25C (field)	1,304	micromhos/cm
34	Background	E004	01/23/2024	Sulfate, total	45.0	mg/L
34	Background	E004	01/23/2024	Temperature	10.5	degrees C
34	Background	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
34	Background	E004	01/23/2024	Total Dissolved Solids	790	mg/L
34	Background	E004	01/23/2024	Turbidity, field	12.4	NTU
21R	Compliance	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
21R	Compliance	E004	01/23/2024	Arsenic, total	0.0240	mg/L
21R	Compliance	E004	01/23/2024	Barium, total	0.320	mg/L
21R	Compliance	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
21R	Compliance	E004	01/23/2024	Boron, total	1.90 J-	mg/L
21R	Compliance	E004	01/23/2024	Cadmium, total	0.00019 J	mg/L
21R	Compliance	E004	01/23/2024	Calcium, total	130	mg/L
21R	Compliance	E004	01/23/2024	Chloride, total	97.0	mg/L
21R	Compliance	E004	01/23/2024	Chromium, total	0.0049 J	mg/L
21R	Compliance	E004	01/23/2024	Cobalt, total	0.00220	mg/L
21R	Compliance	E004	01/23/2024	Dissolved Oxygen	1.38	mg/L
21R	Compliance	E004	01/23/2024	Fluoride, total	0.130	mg/L
21R	Compliance	E004	01/23/2024	Lead, total	0.00410	mg/L
21R	Compliance	E004	01/23/2024	Lithium, total	0.0250	mg/L
21R	Compliance	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
21R	Compliance	E004	01/23/2024	Molybdenum, total	0.0100	mg/L
21R	Compliance	E004	01/23/2024	Oxidation Reduction Potential	-180	mV
21R	Compliance	E004	01/23/2024	pH (field)	7.6	SU
21R	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	0.989	pCi/L
21R	Compliance	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
21R	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	1,121	micromhos/cm
21R	Compliance	E004	01/23/2024	Sulfate, total	94.0	mg/L
21R	Compliance	E004	01/23/2024	Temperature	10.0	degrees C
21R	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
21R	Compliance	E004	01/23/2024	Total Dissolved Solids	660	mg/L
21R	Compliance	E004	01/23/2024	Turbidity, field	130	NTU
22	Compliance	E004	01/23/2024	Antimony, total	0.0019 J	mg/L
22	Compliance	E004	01/23/2024	Arsenic, total	0.00110	mg/L
22	Compliance	E004	01/23/2024	Barium, total	0.0630	mg/L
22	Compliance	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
22	Compliance	E004	01/23/2024	Boron, total	3.90	mg/L
22	Compliance	E004	01/23/2024	Cadmium, total	0.00560	mg/L
22	Compliance	E004	01/23/2024	Calcium, total	95.0	mg/L
22	Compliance	E004	01/23/2024	Chloride, total	95.0	mg/L
22	Compliance	E004	01/23/2024	Chromium, total	0.0011 U	mg/L
22	Compliance	E004	01/23/2024	Cobalt, total	0.00230	mg/L
22	Compliance	E004	01/23/2024	Dissolved Oxygen	0.100	mg/L
22	Compliance	E004	01/23/2024	Fluoride, total	0.150	mg/L
22	Compliance	E004	01/23/2024	Lead, total	0.00049 J	mg/L
22	Compliance	E004	01/23/2024	Lithium, total	0.0490	mg/L

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HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
22	Compliance	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
22	Compliance	E004	01/23/2024	Molybdenum, total	0.0830	mg/L
22	Compliance	E004	01/23/2024	Oxidation Reduction Potential	36.3	mV
22	Compliance	E004	01/23/2024	pH (field)	7.7	SU
22	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	0.582	pCi/L
22	Compliance	E004	01/23/2024	Selenium, total	0.0170	mg/L
22	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	935	micromhos/cm
22	Compliance	E004	01/23/2024	Sulfate, total	120	mg/L
22	Compliance	E004	01/23/2024	Temperature	14.1	degrees C
22	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
22	Compliance	E004	01/23/2024	Total Dissolved Solids	660	mg/L
22	Compliance	E004	01/23/2024	Turbidity, field	19.9	NTU
22D	Compliance	E004	01/23/2024	Antimony, total	0.0018 J	mg/L
22D	Compliance	E004	01/23/2024	Arsenic, total	0.00150	mg/L
22D	Compliance	E004	01/23/2024	Barium, total	0.0720	mg/L
22D	Compliance	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
22D	Compliance	E004	01/23/2024	Boron, total	1.40	mg/L
22D	Compliance	E004	01/23/2024	Cadmium, total	0.00017 U	mg/L
22D	Compliance	E004	01/23/2024	Calcium, total	120	mg/L
22D	Compliance	E004	01/23/2024	Chloride, total	98.0	mg/L
22D	Compliance	E004	01/23/2024	Chromium, total	0.0015 J	mg/L
22D	Compliance	E004	01/23/2024	Cobalt, total	0.00079 J	mg/L
22D	Compliance	E004	01/23/2024	Dissolved Oxygen	1.24	mg/L
22D	Compliance	E004	01/23/2024	Fluoride, total	0.100	mg/L
22D	Compliance	E004	01/23/2024	Lead, total	0.000650	mg/L
22D	Compliance	E004	01/23/2024	Lithium, total	0.0150	mg/L
22D	Compliance	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
22D	Compliance	E004	01/23/2024	Molybdenum, total	0.00690	mg/L
22D	Compliance	E004	01/23/2024	Oxidation Reduction Potential	-130	mV
22D	Compliance	E004	01/23/2024	pH (field)	7.4	SU
22D	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	1.44	pCi/L
22D	Compliance	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
22D	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	1,083	micromhos/cm
22D	Compliance	E004	01/23/2024	Sulfate, total	91.0	mg/L
22D	Compliance	E004	01/23/2024	Temperature	12.6	degrees C
22D	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
22D	Compliance	E004	01/23/2024	Total Dissolved Solids	670	mg/L
22D	Compliance	E004	01/23/2024	Turbidity, field	17.2	NTU
23	Compliance	E004	01/24/2024	Antimony, total	0.0013 U	mg/L
23	Compliance	E004	01/24/2024	Arsenic, total	0.00130	mg/L
23	Compliance	E004	01/24/2024	Barium, total	0.0440	mg/L
23	Compliance	E004	01/24/2024	Beryllium, total	0.00066 J	mg/L
23	Compliance	E004	01/24/2024	Boron, total	8.00	mg/L
23	Compliance	E004	01/24/2024	Cadmium, total	0.00019 J	mg/L
23	Compliance	E004	01/24/2024	Calcium, total	110	mg/L
23	Compliance	E004	01/24/2024	Chloride, total	61.0	mg/L

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HENNEPIN POWER PLANT
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HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
23	Compliance	E004	01/24/2024	Chromium, total	0.0011 U	mg/L
23	Compliance	E004	01/24/2024	Cobalt, total	0.00047 J	mg/L
23	Compliance	E004	01/24/2024	Dissolved Oxygen	0.110	mg/L
23	Compliance	E004	01/24/2024	Fluoride, total	0.150	mg/L
23	Compliance	E004	01/24/2024	Lead, total	0.00035 J	mg/L
23	Compliance	E004	01/24/2024	Lithium, total	0.0027 J	mg/L
23	Compliance	E004	01/24/2024	Mercury, total	0.000079 U	mg/L
23	Compliance	E004	01/24/2024	Molybdenum, total	0.0170	mg/L
23	Compliance	E004	01/24/2024	Oxidation Reduction Potential	-146	mV
23	Compliance	E004	01/24/2024	pH (field)	7.6	SU
23	Compliance	E004	01/24/2024	Radium 226 + Radium 228, total	0.0602	pCi/L
23	Compliance	E004	01/24/2024	Selenium, total	0.00098 U	mg/L
23	Compliance	E004	01/24/2024	Specific Conductance @ 25C (field)	1,134	micromhos/cm
23	Compliance	E004	01/24/2024	Sulfate, total	280	mg/L
23	Compliance	E004	01/24/2024	Temperature	11.4	degrees C
23	Compliance	E004	01/24/2024	Thallium, total	0.00057 U	mg/L
23	Compliance	E004	01/24/2024	Total Dissolved Solids	920	mg/L
23	Compliance	E004	01/24/2024	Turbidity, field	6.25	NTU
27	Compliance	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
27	Compliance	E004	01/23/2024	Arsenic, total	0.00220	mg/L
27	Compliance	E004	01/23/2024	Barium, total	0.120	mg/L
27	Compliance	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
27	Compliance	E004	01/23/2024	Boron, total	2.30	mg/L
27	Compliance	E004	01/23/2024	Cadmium, total	0.00200	mg/L
27	Compliance	E004	01/23/2024	Calcium, total	120	mg/L
27	Compliance	E004	01/23/2024	Chloride, total	91.0	mg/L
27	Compliance	E004	01/23/2024	Chromium, total	0.00770	mg/L
27	Compliance	E004	01/23/2024	Cobalt, total	0.00380	mg/L
27	Compliance	E004	01/23/2024	Dissolved Oxygen	-0.300	mg/L
27	Compliance	E004	01/23/2024	Fluoride, total	0.110	mg/L
27	Compliance	E004	01/23/2024	Lead, total	0.00650	mg/L
27	Compliance	E004	01/23/2024	Lithium, total	0.0230	mg/L
27	Compliance	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
27	Compliance	E004	01/23/2024	Molybdenum, total	0.0047 J	mg/L
27	Compliance	E004	01/23/2024	Oxidation Reduction Potential	-65.4	mV
27	Compliance	E004	01/23/2024	pH (field)	7.2	SU
27	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	0.138	pCi/L
27	Compliance	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
27	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	1,089	micromhos/cm
27	Compliance	E004	01/23/2024	Sulfate, total	130	mg/L
27	Compliance	E004	01/23/2024	Temperature	9.70	degrees C
27	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
27	Compliance	E004	01/23/2024	Total Dissolved Solids	630	mg/L
27	Compliance	E004	01/23/2024	Turbidity, field	18.1	NTU
35	Compliance	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
35	Compliance	E004	01/23/2024	Arsenic, total	0.00160	mg/L

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HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
35	Compliance	E004	01/23/2024	Barium, total	0.0290	mg/L
35	Compliance	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
35	Compliance	E004	01/23/2024	Boron, total	3.00	mg/L
35	Compliance	E004	01/23/2024	Cadmium, total	0.00019 J	mg/L
35	Compliance	E004	01/23/2024	Calcium, total	160	mg/L
35	Compliance	E004	01/23/2024	Chloride, total	9.70	mg/L
35	Compliance	E004	01/23/2024	Chromium, total	0.0011 U	mg/L
35	Compliance	E004	01/23/2024	Cobalt, total	0.00100	mg/L
35	Compliance	E004	01/23/2024	Dissolved Oxygen	-0.170	mg/L
35	Compliance	E004	01/23/2024	Fluoride, total	0.240	mg/L
35	Compliance	E004	01/23/2024	Lead, total	0.00019 U	mg/L
35	Compliance	E004	01/23/2024	Lithium, total	0.00790	mg/L
35	Compliance	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
35	Compliance	E004	01/23/2024	Molybdenum, total	0.0440	mg/L
35	Compliance	E004	01/23/2024	Oxidation Reduction Potential	28.5	mV
35	Compliance	E004	01/23/2024	pH (field)	7.1	SU
35	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	0.461	pCi/L
35	Compliance	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
35	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	856	micromhos/cm
35	Compliance	E004	01/23/2024	Sulfate, total	220	mg/L
35	Compliance	E004	01/23/2024	Temperature	11.5	degrees C
35	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
35	Compliance	E004	01/23/2024	Total Dissolved Solids	650	mg/L
35	Compliance	E004	01/23/2024	Turbidity, field	5.82	NTU
49	Compliance	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
49	Compliance	E004	01/23/2024	Arsenic, total	0.00099 J	mg/L
49	Compliance	E004	01/23/2024	Barium, total	0.0660	mg/L
49	Compliance	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
49	Compliance	E004	01/23/2024	Boron, total	0.700	mg/L
49	Compliance	E004	01/23/2024	Cadmium, total	0.00140	mg/L
49	Compliance	E004	01/23/2024	Calcium, total	110	mg/L
49	Compliance	E004	01/23/2024	Chloride, total	100	mg/L
49	Compliance	E004	01/23/2024	Chromium, total	0.0022 J	mg/L
49	Compliance	E004	01/23/2024	Cobalt, total	0.00410	mg/L
49	Compliance	E004	01/23/2024	Dissolved Oxygen	0.160	mg/L
49	Compliance	E004	01/23/2024	Fluoride, total	0.150	mg/L
49	Compliance	E004	01/23/2024	Lead, total	0.00150	mg/L
49	Compliance	E004	01/23/2024	Lithium, total	0.0220	mg/L
49	Compliance	E004	01/23/2024	Mercury, total	0.0002 U	mg/L
49	Compliance	E004	01/23/2024	Molybdenum, total	0.0250	mg/L
49	Compliance	E004	01/23/2024	Oxidation Reduction Potential	44.3	mV
49	Compliance	E004	01/23/2024	pH (field)	7.2	SU
49	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	0.947	pCi/L
49	Compliance	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
49	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	1,054	micromhos/cm
49	Compliance	E004	01/23/2024	Sulfate, total	81.0	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
49	Compliance	E004	01/23/2024	Temperature	13.0	degrees C
49	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
49	Compliance	E004	01/23/2024	Total Dissolved Solids	620	mg/L
49	Compliance	E004	01/23/2024	Turbidity, field	70.6	NTU
50	Compliance	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
50	Compliance	E004	01/23/2024	Arsenic, total	0.00110	mg/L
50	Compliance	E004	01/23/2024	Barium, total	0.0830	mg/L
50	Compliance	E004	01/23/2024	Beryllium, total	0.00058 J	mg/L
50	Compliance	E004	01/23/2024	Boron, total	1.50	mg/L
50	Compliance	E004	01/23/2024	Cadmium, total	0.00240	mg/L
50	Compliance	E004	01/23/2024	Calcium, total	110	mg/L
50	Compliance	E004	01/23/2024	Chloride, total	93.0	mg/L
50	Compliance	E004	01/23/2024	Chromium, total	0.0015 J	mg/L
50	Compliance	E004	01/23/2024	Cobalt, total	0.00620	mg/L
50	Compliance	E004	01/23/2024	Dissolved Oxygen	132	mg/L
50	Compliance	E004	01/23/2024	Fluoride, total	0.130	mg/L
50	Compliance	E004	01/23/2024	Lead, total	0.000890	mg/L
50	Compliance	E004	01/23/2024	Lithium, total	0.0290	mg/L
50	Compliance	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
50	Compliance	E004	01/23/2024	Molybdenum, total	0.0560	mg/L
50	Compliance	E004	01/23/2024	Oxidation Reduction Potential	57.5	mV
50	Compliance	E004	01/23/2024	pH (field)	7.6	SU
50	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	0.774	pCi/L
50	Compliance	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
50	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	910	micromhos/cm
50	Compliance	E004	01/23/2024	Sulfate, total	120	mg/L
50	Compliance	E004	01/23/2024	Temperature	13.7	degrees C
50	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
50	Compliance	E004	01/23/2024	Total Dissolved Solids	610	mg/L
50	Compliance	E004	01/23/2024	Turbidity, field	67.4	NTU
51	Compliance	E004	01/24/2024	Antimony, total	0.0013 U	mg/L
51	Compliance	E004	01/24/2024	Arsenic, total	0.0240	mg/L
51	Compliance	E004	01/24/2024	Barium, total	0.120	mg/L
51	Compliance	E004	01/24/2024	Beryllium, total	0.00053 U	mg/L
51	Compliance	E004	01/24/2024	Boron, total	1.40	mg/L
51	Compliance	E004	01/24/2024	Cadmium, total	0.00042 J	mg/L
51	Compliance	E004	01/24/2024	Calcium, total	120	mg/L
51	Compliance	E004	01/24/2024	Chloride, total	100	mg/L
51	Compliance	E004	01/24/2024	Chromium, total	0.00570	mg/L
51	Compliance	E004	01/24/2024	Cobalt, total	0.00250	mg/L
51	Compliance	E004	01/24/2024	Dissolved Oxygen	-0.0600	mg/L
51	Compliance	E004	01/24/2024	Fluoride, total	0.130	mg/L
51	Compliance	E004	01/24/2024	Lead, total	0.00530	mg/L
51	Compliance	E004	01/24/2024	Lithium, total	0.0250	mg/L
51	Compliance	E004	01/24/2024	Mercury, total	0.000079 U	mg/L
51	Compliance	E004	01/24/2024	Molybdenum, total	0.00880	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024

845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
51	Compliance	E004	01/24/2024	Oxidation Reduction Potential	-178	mV
51	Compliance	E004	01/24/2024	pH (field)	7.4	SU
51	Compliance	E004	01/24/2024	Radium 226 + Radium 228, total	1.93	pCi/L
51	Compliance	E004	01/24/2024	Selenium, total	0.00098 U	mg/L
51	Compliance	E004	01/24/2024	Specific Conductance @ 25C (field)	1,094	micromhos/cm
51	Compliance	E004	01/24/2024	Sulfate, total	92.0	mg/L
51	Compliance	E004	01/24/2024	Temperature	9.90	degrees C
51	Compliance	E004	01/24/2024	Thallium, total	0.00057 U	mg/L
51	Compliance	E004	01/24/2024	Total Dissolved Solids	640	mg/L
51	Compliance	E004	01/24/2024	Turbidity, field	110	NTU

Notes:
C = Celsius
cm = centimeter
mg/L = milligrams per liter
mV = millivolts
NTU = Nephelometric Turbidity Units
pCi/L = picocuries per liter
SU = Standard Units
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- = The result is an estimated quantity, but the result may be biased low.
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 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
21/21R	UA	E004	Antimony, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.003	0.006	Standard	No Exceedance
21/21R	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/23/24	30	0	CB around linear reg	0.0252	0.010	Standard	Exceedance
21/21R	UA	E004	Barium, total	mg/L	12/10/15 - 01/23/24	30	0	CB around linear reg	0.32	2.0	Standard	No Exceedance
21/21R	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.001	0.004	Standard	No Exceedance
21/21R	UA	E004	Boron, total	mg/L	12/10/15 - 01/23/24	31	0	CB around T-S line	1.89	2	Standard	No Exceedance
21/21R	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
21/21R	UA	E004	Chloride, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	98.8	200	Standard	No Exceedance
21/21R	UA	E004	Chromium, total	mg/L	12/10/15 - 01/23/24	30	62	CB around T-S line	0.00173	0.1	Standard	No Exceedance
21/21R	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/23/24	30	69	CB around T-S line	0.001	0.006	Standard	No Exceedance
21/21R	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/23/24	31	9	CI around median	0.14	4.0	Standard	No Exceedance
21/21R	UA	E004	Lead, total	mg/L	12/10/15 - 01/23/24	30	50	CB around T-S line	0.00167	0.0075	Standard	No Exceedance
21/21R	UA	E004	Lithium, total	mg/L	12/10/15 - 01/23/24	30	0	CB around linear reg	0.0216	0.04	Standard	No Exceedance
21/21R	UA	E004	Mercury, total	mg/L	12/10/15 - 01/23/24	30	97	CI around median	0.0002	0.002	Standard	No Exceedance
21/21R	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/23/24	30	3	CB around linear reg	0.00761	0.1	Standard	No Exceedance
21/21R	UA	E004	pH (field)	SU	12/10/15 - 01/23/24	33	0	CI around mean	7.3/7.5	6.5/9.0	Standard/Standard	No Exceedance
21/21R	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/23/24	23	0	CI around mean	0.863	5	Standard	No Exceedance
21/21R	UA	E004	Selenium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
21/21R	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	56.9	400	Standard	No Exceedance
21/21R	UA	E004	Thallium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.002	0.002	Standard	No Exceedance
21/21R	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/23/24	31	0	CB around T-S line	630	1,200	Standard	No Exceedance
22	UA	E004	Antimony, total	mg/L	12/10/15 - 01/23/24	33	91	CB around T-S line	0.001	0.006	Standard	No Exceedance
22	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/23/24	37	72	CI around median	0.001	0.010	Standard	No Exceedance
22	UA	E004	Barium, total	mg/L	12/10/15 - 01/23/24	33	0	CI around median	0.063	2.0	Standard	No Exceedance
22	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/23/24	33	100	All ND - Last	0.001	0.004	Standard	No Exceedance
22	UA	E004	Boron, total	mg/L	12/10/15 - 01/23/24	38	0	CB around T-S line	3.12	2	Standard	Exceedance
22	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/23/24	33	9	CB around T-S line	0.00552	0.005	Standard	Exceedance
22	UA	E004	Chloride, total	mg/L	12/10/15 - 01/23/24	40	0	CB around T-S line	89.9	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
22	UA	E004	Chromium, total	mg/L	12/10/15 - 01/23/24	33	100	All ND - Last	0.005	0.1	Standard	No Exceedance
22	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/23/24	33	9	CI around mean	0.00193	0.006	Standard	No Exceedance
22	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/23/24	33	5	CI around median	0.15	4.0	Standard	No Exceedance
22	UA	E004	Lead, total	mg/L	12/10/15 - 01/23/24	33	97	CI around median	0.001	0.0075	Standard	No Exceedance
22	UA	E004	Lithium, total	mg/L	12/10/15 - 01/23/24	37	0	CB around T-S line	0.042	0.04	Standard	Exceedance
22	UA	E004	Mercury, total	mg/L	12/10/15 - 01/23/24	31	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
22	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/23/24	37	0	CB around T-S line	0.0661	0.1	Standard	No Exceedance
22	UA	E004	pH (field)	SU	12/10/15 - 01/23/24	36	0	CI around mean	7.5/7.7	6.5/9.0	Standard/Standard	No Exceedance
22	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/23/24	24	0	CI around mean	0.375	5	Standard	No Exceedance
22	UA	E004	Selenium, total	mg/L	12/10/15 - 01/23/24	33	6	CB around linear reg	0.015	0.05	Standard	No Exceedance
22	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/23/24	40	0	CB around linear reg	100	400	Standard	No Exceedance
22	UA	E004	Thallium, total	mg/L	12/10/15 - 01/23/24	33	94	CB around T-S line	0.002	0.002	Standard	No Exceedance
22	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/23/24	40	0	CB around linear reg	587	1,200	Standard	No Exceedance
22D	UA	E004	Antimony, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.003	0.006	Standard	No Exceedance
22D	UA	E004	Arsenic, total	mg/L	09/17/19 - 01/23/24	17	6	CI around median	0.0012	0.010	Standard	No Exceedance
22D	UA	E004	Barium, total	mg/L	09/17/19 - 01/23/24	17	0	CB around T-S line	0.0662	2.0	Standard	No Exceedance
22D	UA	E004	Beryllium, total	mg/L	09/17/19 - 01/23/24	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
22D	UA	E004	Boron, total	mg/L	09/17/19 - 01/23/24	17	0	CB around linear reg	1.16	2	Standard	No Exceedance
22D	UA	E004	Cadmium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
22D	UA	E004	Chloride, total	mg/L	09/17/19 - 01/23/24	17	0	CB around linear reg	95.8	200	Standard	No Exceedance
22D	UA	E004	Chromium, total	mg/L	09/17/19 - 01/23/24	17	88	CI around median	0.0015	0.1	Standard	No Exceedance
22D	UA	E004	Cobalt, total	mg/L	09/17/19 - 01/23/24	17	94	CI around median	0.001	0.006	Standard	No Exceedance
22D	UA	E004	Fluoride, total	mg/L	09/17/19 - 01/23/24	17	12	CI around median	0.11	4.0	Standard	No Exceedance
22D	UA	E004	Lead, total	mg/L	09/17/19 - 01/23/24	17	88	CI around median	0.001	0.0075	Standard	No Exceedance
22D	UA	E004	Lithium, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	0.0147	0.04	Standard	No Exceedance
22D	UA	E004	Mercury, total	mg/L	12/11/19 - 01/23/24	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
22D	UA	E004	Molybdenum, total	mg/L	09/17/19 - 01/23/24	17	6	CI around geomean	0.0066	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
22D	UA	E004	pH (field)	SU	09/17/19 - 01/23/24	20	0	CI around mean	7.2/7.3	6.5/9.0	Standard/Standard	No Exceedance
22D	UA	E004	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 01/23/24	14	0	CI around mean	0.665	5	Standard	No Exceedance
22D	UA	E004	Selenium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
22D	UA	E004	Sulfate, total	mg/L	09/17/19 - 01/23/24	17	0	CB around linear reg	87.7	400	Standard	No Exceedance
22D	UA	E004	Thallium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.002	0.002	Standard	No Exceedance
22D	UA	E004	Total Dissolved Solids	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	605	1,200	Standard	No Exceedance
23	UA	E004	Antimony, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.003	0.006	Standard	No Exceedance
23	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/24/24	37	92	CB around T-S line	0.001	0.010	Standard	No Exceedance
23	UA	E004	Barium, total	mg/L	12/10/15 - 01/24/24	33	0	CB around T-S line	0.0378	2.0	Standard	No Exceedance
23	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.001	0.004	Standard	No Exceedance
23	UA	E004	Boron, total	mg/L	12/10/15 - 01/24/24	38	0	CB around T-S line	8.23	2	Standard	Exceedance
23	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
23	UA	E004	Chloride, total	mg/L	12/10/15 - 01/24/24	40	1	CB around T-S line	51.1	200	Standard	No Exceedance
23	UA	E004	Chromium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.005	0.1	Standard	No Exceedance
23	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.001	0.006	Standard	No Exceedance
23	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/24/24	33	5	CI around median	0.15	4.0	Standard	No Exceedance
23	UA	E004	Lead, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
23	UA	E004	Lithium, total	mg/L	12/10/15 - 01/24/24	37	8	CI around median	0.0048	0.04	Standard	No Exceedance
23	UA	E004	Mercury, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
23	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/24/24	37	0	CI around median	0.0147	0.1	Standard	No Exceedance
23	UA	E004	pH (field)	SU	12/10/15 - 01/24/24	35	0	CI around mean	7.4/7.5	6.5/9.0	Standard/Standard	No Exceedance
23	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/24/24	24	0	CI around mean	0.268	5	Standard	No Exceedance
23	UA	E004	Selenium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
23	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/24/24	40	0	CI around median	421	400	Standard	Exceedance
23	UA	E004	Thallium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.002	0.002	Standard	No Exceedance
23	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/24/24	40	0	CI around mean	886	1,200	Standard	No Exceedance
24/51	UA	E004	Antimony, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
24/51	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/24/24	35	0	CI around mean	0.0204	0.010	Standard	Exceedance
24/51	UA	E004	Barium, total	mg/L	12/10/15 - 01/24/24	31	0	CB around linear reg	0.111	2.0	Standard	No Exceedance
24/51	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.001	0.004	Standard	No Exceedance
24/51	UA	E004	Boron, total	mg/L	12/10/15 - 01/24/24	36	0	CB around linear reg	1.34	2	Standard	No Exceedance
24/51	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
24/51	UA	E004	Chloride, total	mg/L	12/10/15 - 01/24/24	38	0	CB around linear reg	105	200	Standard	No Exceedance
24/51	UA	E004	Chromium, total	mg/L	12/10/15 - 01/24/24	31	76	CB around T-S line	0.0015	0.1	Standard	No Exceedance
24/51	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/24/24	31	73	CI around median	0.001	0.006	Standard	No Exceedance
24/51	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/24/24	31	6	CB around T-S line	0.12	4.0	Standard	No Exceedance
24/51	UA	E004	Lead, total	mg/L	12/10/15 - 01/24/24	31	64	CB around T-S line	0.001	0.0075	Standard	No Exceedance
24/51	UA	E004	Lithium, total	mg/L	12/10/15 - 01/24/24	35	0	CB around T-S line	0.0233	0.04	Standard	No Exceedance
24/51	UA	E004	Mercury, total	mg/L	12/10/15 - 01/24/24	30	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
24/51	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/24/24	35	3	CI around mean	0.0098	0.1	Standard	No Exceedance
24/51	UA	E004	pH (field)	SU	12/10/15 - 01/24/24	33	0	CB around linear reg	7.2/7.4	6.5/9.0	Standard/Standard	No Exceedance
24/51	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/24/24	23	0	CB around linear reg	1.33	5	Standard	No Exceedance
24/51	UA	E004	Selenium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
24/51	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/24/24	38	0	CB around linear reg	81.8	400	Standard	No Exceedance
24/51	UA	E004	Thallium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.002	0.002	Standard	No Exceedance
24/51	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/24/24	38	0	CI around mean	619	1,200	Standard	No Exceedance
27	UA	E004	Antimony, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.003	0.006	Standard	No Exceedance
27	UA	E004	Arsenic, total	mg/L	09/12/18 - 01/23/24	20	59	CI around median	0.001	0.010	Standard	No Exceedance
27	UA	E004	Barium, total	mg/L	09/12/18 - 01/23/24	20	0	CI around geomean	0.0843	2.0	Standard	No Exceedance
27	UA	E004	Beryllium, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
27	UA	E004	Boron, total	mg/L	09/12/18 - 01/23/24	20	0	CB around linear reg	1.41	2	Standard	No Exceedance
27	UA	E004	Cadmium, total	mg/L	09/12/18 - 01/23/24	20	96	CI around median	0.001	0.005	Standard	No Exceedance
27	UA	E004	Chloride, total	mg/L	03/08/16 - 01/23/24	25	0	CB around T-S line	93.3	200	Standard	No Exceedance
27	UA	E004	Chromium, total	mg/L	09/12/18 - 01/23/24	20	77	CI around median	0.0015	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
27	UA	E004	Cobalt, total	mg/L	09/12/18 - 01/23/24	20	9	CI around mean	0.00196	0.006	Standard	No Exceedance
27	UA	E004	Fluoride, total	mg/L	09/12/18 - 01/23/24	20	4	CI around median	0.12	4.0	Standard	No Exceedance
27	UA	E004	Lead, total	mg/L	09/12/18 - 01/23/24	20	54	CI around median	0.001	0.0075	Standard	No Exceedance
27	UA	E004	Lithium, total	mg/L	09/12/18 - 01/23/24	20	0	CI around mean	0.0215	0.04	Standard	No Exceedance
27	UA	E004	Mercury, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
27	UA	E004	Molybdenum, total	mg/L	09/12/18 - 01/23/24	20	20	CI around median	0.0043	0.1	Standard	No Exceedance
27	UA	E004	pH (field)	SU	03/08/16 - 01/23/24	25	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
27	UA	E004	Radium 226 + Radium 228, total	pCi/L	09/12/18 - 01/23/24	14	0	CI around geomean	0.219	5	Standard	No Exceedance
27	UA	E004	Selenium, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
27	UA	E004	Sulfate, total	mg/L	03/08/16 - 01/23/24	25	0	CI around geomean	121	400	Standard	No Exceedance
27	UA	E004	Thallium, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
27	UA	E004	Total Dissolved Solids	mg/L	03/08/16 - 01/23/24	25	0	CI around median	638	1,200	Standard	No Exceedance
35	UA	E004	Antimony, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.003	0.006	Standard	No Exceedance
35	UA	E004	Arsenic, total	mg/L	12/09/15 - 01/23/24	32	78	CI around median	0.001	0.010	Standard	No Exceedance
35	UA	E004	Barium, total	mg/L	12/09/15 - 01/23/24	32	0	CI around mean	0.0404	2.0	Standard	No Exceedance
35	UA	E004	Beryllium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.001	0.004	Standard	No Exceedance
35	UA	E004	Boron, total	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	10.6	2	Standard	Exceedance
35	UA	E004	Cadmium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
35	UA	E004	Chloride, total	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	23.9	200	Standard	No Exceedance
35	UA	E004	Chromium, total	mg/L	12/09/15 - 01/23/24	32	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
35	UA	E004	Cobalt, total	mg/L	12/09/15 - 01/23/24	32	41	CI around median	0.001	0.006	Standard	No Exceedance
35	UA	E004	Fluoride, total	mg/L	12/09/15 - 01/23/24	33	3	CI around median	0.17	4.0	Standard	No Exceedance
35	UA	E004	Lead, total	mg/L	12/09/15 - 01/23/24	32	91	CI around median	0.001	0.0075	Standard	No Exceedance
35	UA	E004	Lithium, total	mg/L	12/09/15 - 01/23/24	32	0	CI around mean	0.0241	0.04	Standard	No Exceedance
35	UA	E004	Mercury, total	mg/L	12/09/15 - 01/23/24	31	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
35	UA	E004	Molybdenum, total	mg/L	12/09/15 - 01/23/24	32	0	CI around mean	0.0658	0.1	Standard	No Exceedance
35	UA	E004	pH (field)	SU	12/09/15 - 01/23/24	33	0	CB around linear reg	6.8/7.0	6.5/9.0	Standard/Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
35	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/23/24	25	0	CI around median	0.31	5	Standard	No Exceedance
35	UA	E004	Selenium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
35	UA	E004	Sulfate, total	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	585	400	Standard	Exceedance
35	UA	E004	Thallium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.002	0.002	Standard	No Exceedance
35	UA	E004	Total Dissolved Solids	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	1,170	1,200	Standard	No Exceedance
49	UA	E004	Antimony, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.003	0.006	Standard	No Exceedance
49	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/23/24	32	97	CI around median	0.001	0.010	Standard	No Exceedance
49	UA	E004	Barium, total	mg/L	12/10/15 - 01/23/24	32	0	CB around T-S line	0.0613	2.0	Standard	No Exceedance
49	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.001	0.004	Standard	No Exceedance
49	UA	E004	Boron, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	0.457	2	Standard	No Exceedance
49	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/23/24	32	28	CB around linear reg	0.0015	0.005	Standard	No Exceedance
49	UA	E004	Chloride, total	mg/L	12/10/15 - 01/23/24	33	0	CI around median	100	200	Standard	No Exceedance
49	UA	E004	Chromium, total	mg/L	12/10/15 - 01/23/24	32	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
49	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/23/24	32	0	CI around mean	0.00443	0.006	Standard	No Exceedance
49	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/23/24	33	3	CI around median	0.15	4.0	Standard	No Exceedance
49	UA	E004	Lead, total	mg/L	12/10/15 - 01/23/24	32	91	CI around median	0.001	0.0075	Standard	No Exceedance
49	UA	E004	Lithium, total	mg/L	12/10/15 - 01/23/24	32	0	CB around linear reg	0.0215	0.04	Standard	No Exceedance
49	UA	E004	Mercury, total	mg/L	12/10/15 - 01/23/24	31	100	All ND - Last	0.0005	0.002	Standard	No Exceedance
49	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/23/24	32	0	CB around T-S line	0.0228	0.1	Standard	No Exceedance
49	UA	E004	pH (field)	SU	12/10/15 - 01/23/24	34	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
49	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/23/24	25	0	CI around mean	0.345	5	Standard	No Exceedance
49	UA	E004	Selenium, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
49	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	69.3	400	Standard	No Exceedance
49	UA	E004	Thallium, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.002	0.002	Standard	No Exceedance
49	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	573	1,200	Standard	No Exceedance
50	UA	E004	Antimony, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.003	0.006	Standard	No Exceedance
50	UA	E004	Arsenic, total	mg/L	09/17/19 - 01/23/24	17	88	CI around median	0.001	0.010	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
50	UA	E004	Barium, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	0.0857	2.0	Standard	No Exceedance
50	UA	E004	Beryllium, total	mg/L	09/17/19 - 01/23/24	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
50	UA	E004	Boron, total	mg/L	09/17/19 - 01/23/24	17	0	CI around geomean	0.71	2	Standard	No Exceedance
50	UA	E004	Cadmium, total	mg/L	09/17/19 - 01/23/24	17	6	CI around median	0.0012	0.005	Standard	No Exceedance
50	UA	E004	Chloride, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	89.2	200	Standard	No Exceedance
50	UA	E004	Chromium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.005	0.1	Standard	No Exceedance
50	UA	E004	Cobalt, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	0.00435	0.006	Standard	No Exceedance
50	UA	E004	Fluoride, total	mg/L	09/17/19 - 01/23/24	17	24	CB around T-S line	0.116	4.0	Standard	No Exceedance
50	UA	E004	Lead, total	mg/L	09/17/19 - 01/23/24	17	94	CI around median	0.001	0.0075	Standard	No Exceedance
50	UA	E004	Lithium, total	mg/L	09/17/19 - 01/23/24	17	0	CI around median	0.0201	0.04	Standard	No Exceedance
50	UA	E004	Mercury, total	mg/L	12/11/19 - 01/23/24	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
50	UA	E004	Molybdenum, total	mg/L	09/17/19 - 01/23/24	17	0	CB around T-S line	0.0297	0.1	Standard	No Exceedance
50	UA	E004	pH (field)	SU	09/17/19 - 01/23/24	20	0	CB around linear reg	7.3/7.6	6.5/9.0	Standard/Standard	No Exceedance
50	UA	E004	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 01/23/24	13	0	CI around mean	0.584	5	Standard	No Exceedance
50	UA	E004	Selenium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
50	UA	E004	Sulfate, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	87.4	400	Standard	No Exceedance
50	UA	E004	Thallium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.002	0.002	Standard	No Exceedance
50	UA	E004	Total Dissolved Solids	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	607	1,200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Notes:

Compliance Result:

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

Exceedance: The statistical result exceeded 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

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

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

GWPS = Groundwater Protection Standard

GWPS Source:

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

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

FIGURES



- COMPLIANCE WELL
- BACKGROUND WELL
- REGULATED UNIT (SUBJECT UNIT)
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

0 200 400
Feet

MONITORING WELL LOCATION
MAP

WEST ASH POND SYSTEM
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
SUMMARY OF GROUNDWATER ELEVATION DATA
QUARTER 1, 2024**

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
21R	Compliance	01/22/2024	5.33	446.89
22	Compliance	01/22/2024	17.95	446.67
22D	Compliance	01/22/2024	18.79	446.81
23	Compliance	01/22/2024	16.68	446.88
27	Compliance	01/22/2024	3.82	446.93
32	Background	01/22/2024	4.64	446.91
34	Background	01/22/2024	4.09	445.64
35	Compliance	01/22/2024	7.97	446.92
49	Compliance	01/22/2024	21.33	446.94
50	Compliance	01/22/2024	17.54	446.57
51	Compliance	01/22/2024	18.04	446.84

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

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 02/21/24 14:10:34

JOB DESCRIPTION

HEN-24Q1
HEN_845_804

JOB NUMBER

500-245277-5

Job Notes

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

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

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Case Narrative

Client: Vistra Energy Corp
Project: HEN-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5

Job ID: 500-245277-5

Eurofins Chicago

Job Narrative 500-245277-5

Receipt

The samples were received on 01/24/24 12:20. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 12 coolers at receipt time were 2.1° C, 2.3° C, 2.6° C, 2.7° C, 3.2° C, 3.3° C, 3.9° C, 4.1° C, 4.4° C, 4.4° C, 5.1° C and 5.2° C.

Metals

Method 6020B: The initial low level calibration verification (ICVL) result for batch 752646 was above the upper control limit. The affected analyte is: Sb. Sample results were below the lower limit, and have been reported as qualified data.

Method 6020B: The initial low level calibration verification (ICVL) result for batch 752984 was above the upper control limit. The affected analytes are: Se and Sb. Sample results are below the reporting limit, and have been reported as qualified data.

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

General Chemistry

Method SM 2320B: The method blank for analytical batch 500-753401 contained Alkalinity above the reporting limit (RL). Associated sample(s) were not re-analyzed because results were greater than 10X the value found in the method blank with the exception of sample HEN_FB .

Method SM 2320B: Reanalysis of the following samples was performed outside of the analytical holding time due to instrument malfunction & Failed QC : HEN_FB (500-245277-25). No data available from the original run, reanalysis data reported.

Method SM 2320B: The PHC following the samples did not run due to an instrument malfunction causing it to freeze up. The following samples were reanalyzed outside of holding time and confirmed the results. The original data has been qualified and has been reported.

HEN_23 (500-245277-18) and HEN_51 (500-245277-21)

Method SM 2320B: The method blank for analytical batch 500-753214 contained Alkalinity and Bicarbonate Alkalinity as CaCO₃ above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 300.0: The method blank for analytical batch 500-752307 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: Spike compounds were inadvertently omitted during the extraction process for the matrix spike (MS) and / or matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for analytical batch 500-752534. The associated laboratory control sample (LCS) met acceptance criteria.

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

Eurofins Chicago

Detection Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_21R

Lab Sample ID: 500-245277-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.025		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total
Arsenic	0.024	B	0.0010	0.00023	mg/L	1			6020B	Recoverable Total
Barium	0.32		0.0025	0.00073	mg/L	1			6020B	Recoverable Total
Boron	1.9	F1	0.050	0.013	mg/L	1			6020B	Recoverable Total
Cadmium	0.00019	J	0.00050	0.00017	mg/L	1			6020B	Recoverable Total
Calcium	130		0.20	0.044	mg/L	1			6020B	Recoverable Total
Chromium	0.0049	J	0.0050	0.0011	mg/L	1			6020B	Recoverable Total
Cobalt	0.0022		0.0010	0.00040	mg/L	1			6020B	Recoverable Total
Lead	0.0041		0.00050	0.00019	mg/L	1			6020B	Recoverable Total
Magnesium	40	B	0.20	0.049	mg/L	1			6020B	Recoverable Total
Molybdenum	0.010		0.0050	0.0025	mg/L	1			6020B	Recoverable Total
Potassium	3.2		0.50	0.11	mg/L	1			6020B	Recoverable Total
Sodium	54	B	0.20	0.077	mg/L	1			6020B	Recoverable Total
Chloride	97		5.0	0.58	mg/L	5			300.0	Total/NA
Sulfate	94		5.0	1.0	mg/L	5			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	380		5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	660		10	4.3	mg/L	1			SM 2540C	Total/NA
Fluoride	0.13		0.10	0.056	mg/L	1			SM 4500 F C	Total/NA
Depth to Water (ft from MP)	5.33				ft	1			Field Sampling	Total/NA
Field pH	7.59				SU	1			Field Sampling	Total/NA
Field Temperature	10.01				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	-179.7				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	1.38				mg/L	1			Field Sampling	Total/NA
Specific Conductance	1121				umhos/cm	1			Field Sampling	Total/NA
Turbidity	130.21				NTU	1			Field Sampling	Total/NA

Client Sample ID: HEN_22

Lab Sample ID: 500-245277-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.049		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total
Antimony	0.0019	J ^1+ ^2	0.0030	0.0013	mg/L	1			6020B	Recoverable Total
Arsenic	0.0011	B	0.0010	0.00023	mg/L	1			6020B	Recoverable Total
Barium	0.063		0.0025	0.00073	mg/L	1			6020B	Recoverable Total
Boron	3.9		0.50	0.13	mg/L	10			6020B	Recoverable Total
Cadmium	0.0056		0.00050	0.00017	mg/L	1			6020B	Recoverable Total
Calcium	95		0.20	0.044	mg/L	1			6020B	Recoverable Total

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_22 (Continued)

Lab Sample ID: 500-245277-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.0023		0.0010	0.00040	mg/L	1		6020B	Total
Lead	0.00049	J	0.00050	0.00019	mg/L	1		6020B	Recoverable
Magnesium	36	B	0.20	0.049	mg/L	1		6020B	Total
Molybdenum	0.083		0.0050	0.0025	mg/L	1		6020B	Recoverable
Potassium	11		0.50	0.11	mg/L	1		6020B	Total
Selenium	0.017		0.0025	0.00098	mg/L	1		6020B	Recoverable
Sodium	62	B	0.20	0.077	mg/L	1		6020B	Total
Chloride	95		5.0	0.58	mg/L	5		300.0	Recoverable
Sulfate	120		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	260		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	660		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.15		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	17.95				ft	1		Field Sampling	Total/NA
Field pH	7.66				SU	1		Field Sampling	Total/NA
Field Temperature	14.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	36.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.10				mg/L	1		Field Sampling	Total/NA
Specific Conductance	935				umhos/cm	1		Field Sampling	Total/NA
Turbidity	19.94				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_22&D

Lab Sample ID: 500-245277-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.015		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total
Antimony	0.0018	J ^1+ ^2	0.0030	0.0013	mg/L	1		6020B	Recoverable
Arsenic	0.0015	B	0.0010	0.00023	mg/L	1		6020B	Total
Barium	0.072		0.0025	0.00073	mg/L	1		6020B	Recoverable
Boron	1.4		0.050	0.013	mg/L	1		6020B	Total
Calcium	120		0.20	0.044	mg/L	1		6020B	Recoverable
Chromium	0.0015	J	0.0050	0.0011	mg/L	1		6020B	Total
Cobalt	0.00079	J	0.0010	0.00040	mg/L	1		6020B	Recoverable
Lead	0.00065		0.00050	0.00019	mg/L	1		6020B	Total
Magnesium	41	B	0.20	0.049	mg/L	1		6020B	Recoverable
Molybdenum	0.0069		0.0050	0.0025	mg/L	1		6020B	Total
Potassium	3.4		0.50	0.11	mg/L	1		6020B	Recoverable
Sodium	52	B	0.20	0.077	mg/L	1		6020B	Total

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_22&D (Continued)

Lab Sample ID: 500-245277-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	98		5.0	0.58	mg/L	5			300.0	Total/NA
Sulfate	91		5.0	1.0	mg/L	5			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	350		5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	670		10	4.3	mg/L	1			SM 2540C	Total/NA
Fluoride	0.10		0.10	0.056	mg/L	1			SM 4500 F C	Total/NA
Depth to Water (ft from MP)	18.73				ft	1			Field Sampling	Total/NA
Field pH	7.38				SU	1			Field Sampling	Total/NA
Field Temperature	12.6				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	-129.8				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	1.24				mg/L	1			Field Sampling	Total/NA
Specific Conductance	1083				umhos/cm	1			Field Sampling	Total/NA
Turbidity	17.22				NTU	1			Field Sampling	Total/NA

Client Sample ID: HEN_27

Lab Sample ID: 500-245277-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.023		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total
Arsenic	0.0022	B	0.0010	0.00023	mg/L	1			6020B	Recoverable Total
Barium	0.12		0.0025	0.00073	mg/L	1			6020B	Recoverable Total
Boron	2.3		0.050	0.013	mg/L	1			6020B	Recoverable Total
Cadmium	0.0020		0.00050	0.00017	mg/L	1			6020B	Recoverable Total
Calcium	120		0.20	0.044	mg/L	1			6020B	Recoverable Total
Chromium	0.0077		0.0050	0.0011	mg/L	1			6020B	Recoverable Total
Cobalt	0.0038		0.0010	0.00040	mg/L	1			6020B	Recoverable Total
Lead	0.0065		0.00050	0.00019	mg/L	1			6020B	Recoverable Total
Magnesium	38	B	0.20	0.049	mg/L	1			6020B	Recoverable Total
Molybdenum	0.0047	J	0.0050	0.0025	mg/L	1			6020B	Recoverable Total
Potassium	4.3		0.50	0.11	mg/L	1			6020B	Recoverable Total
Sodium	50	B	0.20	0.077	mg/L	1			6020B	Recoverable Total
Chloride	91		5.0	0.58	mg/L	5			300.0	Total/NA
Sulfate	130		5.0	1.0	mg/L	5			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	340		5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	630		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)	3.76				ft	1			Field Sampling	Total/NA
Field pH	7.25				SU	1			Field Sampling	Total/NA
Field Temperature	9.7				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	-65.4				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	-0.30				mg/L	1			Field Sampling	Total/NA
Specific Conductance	1089				umhos/cm	1			Field Sampling	Total/NA
Turbidity	18.13				NTU	1			Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_32

Lab Sample ID: 500-245277-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00054	J B	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.041		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.16		0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00017	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	100		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0014	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0013		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00055		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	38	B	0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	37	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	72		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	80		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	340		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	0.11		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	4.56				ft	1		Field Sampling	Total/NA
Field pH	7.16				SU	1		Field Sampling	Total/NA
Field Temperature	10.2				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	157.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1001				umhos/cm	1		Field Sampling	Total/NA
Turbidity	29.73				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_34

Lab Sample ID: 500-245277-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.010		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00081	J B	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.12		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.13		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	170		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0012	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Lead	0.00057		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	48	B	0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	0.61		0.50	0.11	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_34 (Continued)

Lab Sample ID: 500-245277-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	51	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	72		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	45		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	590		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	790		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.14		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	4.05				ft	1		Field Sampling	Total/NA
Field pH	7.09				SU	1		Field Sampling	Total/NA
Field Temperature	10.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-148.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.27				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1304				umhos/cm	1		Field Sampling	Total/NA
Turbidity	12.45				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_35

Lab Sample ID: 500-245277-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0079		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0016	B	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.029		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	3.0		0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00019	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	160		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0010		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	21	B	0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.044		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	6.4		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	15	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	9.7		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	220		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	280		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	650		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.24		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	7.90				ft	1		Field Sampling	Total/NA
Field pH	7.10				SU	1		Field Sampling	Total/NA
Field Temperature	11.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	28.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.17				mg/L	1		Field Sampling	Total/NA
Specific Conductance	856				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.82				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_35_FD

Lab Sample ID: 500-245277-8

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
Arsenic	0.0013	B	0.0010	0.00023	mg/L	1			6020B	Total Recoverable
Barium	0.028		0.0025	0.00073	mg/L	1			6020B	Total Recoverable
Boron	3.4		0.050	0.013	mg/L	1			6020B	Total Recoverable
Cadmium	0.00018	J	0.00050	0.00017	mg/L	1			6020B	Total Recoverable
Calcium	160		0.20	0.044	mg/L	1			6020B	Total Recoverable
Cobalt	0.00089	J	0.0010	0.00040	mg/L	1			6020B	Total Recoverable
Magnesium	20	B	0.20	0.049	mg/L	1			6020B	Total Recoverable
Molybdenum	0.045		0.0050	0.0025	mg/L	1			6020B	Total Recoverable
Potassium	6.7		0.50	0.11	mg/L	1			6020B	Total Recoverable
Sodium	15	B	0.20	0.077	mg/L	1			6020B	Total Recoverable
Chloride	11		1.0	0.12	mg/L	1			300.0	Total/NA
Sulfate	240		10	2.1	mg/L	10			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	280		5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	690		10	4.3	mg/L	1			SM 2540C	Total/NA
Fluoride	0.22		0.10	0.056	mg/L	1			SM 4500 F C	Total/NA
Depth to Water (ft from MP)	7.90				ft	1			Field Sampling	Total/NA
Field pH	7.10				SU	1			Field Sampling	Total/NA
Field Temperature	11.5				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	28.5				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	-0.17				mg/L	1			Field Sampling	Total/NA
Specific Conductance	856				umhos/cm	1			Field Sampling	Total/NA
Turbidity	5.82				NTU	1			Field Sampling	Total/NA

Client Sample ID: HEN_49

Lab Sample ID: 500-245277-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.022		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total Recoverable
Arsenic	0.00099	J	0.0010	0.00023	mg/L	1			6020B	Total Recoverable
Barium	0.066		0.0025	0.00073	mg/L	1			6020B	Total Recoverable
Boron	0.70	B	0.050	0.013	mg/L	1			6020B	Total Recoverable
Cadmium	0.0014		0.00050	0.00017	mg/L	1			6020B	Total Recoverable
Calcium	110		0.20	0.044	mg/L	1			6020B	Total Recoverable
Chromium	0.0022	J	0.0050	0.0011	mg/L	1			6020B	Total Recoverable
Cobalt	0.0041		0.0010	0.00040	mg/L	1			6020B	Total Recoverable
Lead	0.0015		0.00050	0.00019	mg/L	1			6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_49 (Continued)

Lab Sample ID: 500-245277-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Magnesium	30		0.20	0.049	mg/L	1			6020B	Total Recoverable
Molybdenum	0.025		0.0050	0.0025	mg/L	1			6020B	Total Recoverable
Potassium	11		0.50	0.11	mg/L	1			6020B	Total Recoverable
Sodium	61		0.20	0.077	mg/L	1			6020B	Total Recoverable
Chloride	100	B	5.0	0.58	mg/L	5			300.0	Total/NA
Sulfate	81		5.0	1.0	mg/L	5			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	340		5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	620		10	4.3	mg/L	1			SM 2540C	Total/NA
Fluoride	0.15		0.10	0.056	mg/L	1			SM 4500 F C	Total/NA
Depth to Water (ft from MP)	21.25				ft	1			Field Sampling	Total/NA
Field pH	7.16				SU	1			Field Sampling	Total/NA
Field Temperature	13.0				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	44.3				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	0.16				mg/L	1			Field Sampling	Total/NA
Specific Conductance	1054				umhos/cm	1			Field Sampling	Total/NA
Turbidity	70.62				NTU	1			Field Sampling	Total/NA

Client Sample ID: HEN_50

Lab Sample ID: 500-245277-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.029		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total Recoverable
Arsenic	0.0011	B	0.0010	0.00023	mg/L	1			6020B	Total Recoverable
Barium	0.083		0.0025	0.00073	mg/L	1			6020B	Total Recoverable
Beryllium	0.00058	J	0.0010	0.00053	mg/L	1			6020B	Total Recoverable
Boron	1.5		0.050	0.013	mg/L	1			6020B	Total Recoverable
Cadmium	0.0024		0.00050	0.00017	mg/L	1			6020B	Total Recoverable
Calcium	110		0.20	0.044	mg/L	1			6020B	Total Recoverable
Chromium	0.0015	J	0.0050	0.0011	mg/L	1			6020B	Total Recoverable
Cobalt	0.0062		0.0010	0.00040	mg/L	1			6020B	Total Recoverable
Lead	0.00089		0.00050	0.00019	mg/L	1			6020B	Total Recoverable
Magnesium	24	B	0.20	0.049	mg/L	1			6020B	Total Recoverable
Molybdenum	0.056		0.0050	0.0025	mg/L	1			6020B	Total Recoverable
Potassium	9.2		0.50	0.11	mg/L	1			6020B	Total Recoverable
Sodium	56	B	0.20	0.077	mg/L	1			6020B	Total Recoverable
Chloride	93	B	5.0	0.58	mg/L	5			300.0	Total/NA
Sulfate	120		5.0	1.0	mg/L	5			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	250		5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	610		10	4.3	mg/L	1			SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_50 (Continued)

Lab Sample ID: 500-245277-10

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)	17.57				ft	1		Field Sampling	Total/NA
Field pH	7.59				SU	1		Field Sampling	Total/NA
Field Temperature	13.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	57.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	132				mg/L	1		Field Sampling	Total/NA
Specific Conductance	910				umhos/cm	1		Field Sampling	Total/NA
Turbidity	67.40				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_23

Lab Sample ID: 500-245277-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0027	J	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0013	B	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.044		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Beryllium	0.00066	J	0.0010	0.00053	mg/L	1		6020B	Total Recoverable
Boron	8.0		0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00019	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	110		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00047	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00035	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	74	B	0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.017		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	3.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	46	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	61	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	280		20	4.1	mg/L	20		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	190	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	920		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.15		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	16.48				ft	1		Field Sampling	Total/NA
Field pH	7.56				SU	1		Field Sampling	Total/NA
Field Temperature	11.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-145.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.11				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1134				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.25				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNERIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_51

Lab Sample ID: 500-245277-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.025		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total
Arsenic	0.024	B	0.0010	0.00023	mg/L	1		6020B	Recoverable Total
Barium	0.12		0.0025	0.00073	mg/L	1		6020B	Recoverable Total
Boron	1.4		0.050	0.013	mg/L	1		6020B	Recoverable Total
Cadmium	0.00042	J	0.00050	0.00017	mg/L	1		6020B	Recoverable Total
Calcium	120		0.20	0.044	mg/L	1		6020B	Recoverable Total
Chromium	0.0057		0.0050	0.0011	mg/L	1		6020B	Recoverable Total
Cobalt	0.0025		0.0010	0.00040	mg/L	1		6020B	Recoverable Total
Lead	0.0053		0.00050	0.00019	mg/L	1		6020B	Recoverable Total
Magnesium	38	B	0.20	0.049	mg/L	1		6020B	Recoverable Total
Molybdenum	0.0088		0.0050	0.0025	mg/L	1		6020B	Recoverable Total
Potassium	6.8		0.50	0.11	mg/L	1		6020B	Recoverable Total
Sodium	55	B	0.20	0.077	mg/L	1		6020B	Recoverable Total
Chloride	100	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	92		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	360	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	640		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.13		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	17.81				ft	1		Field Sampling	Total/NA
Field pH	7.42				SU	1		Field Sampling	Total/NA
Field Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-178.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.06				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1094				umhos/cm	1		Field Sampling	Total/NA
Turbidity	109.77				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_FB

Lab Sample ID: 500-245277-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	0.10	J	0.20	0.077	mg/L	1		6020B	Total
Bicarbonate Alkalinity as CaCO3	6.4	H	5.0	3.7	mg/L	1		SM 2320B	Recoverable Total/NA
Total Dissolved Solids	36		10	4.3	mg/L	1		SM 2540C	Total/NA

Client Sample ID: HEN_YSG_ILRIVER

Lab Sample ID: 500-245277-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	22.07				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 590-245277-5
SDG: HEN_845_804

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-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
SDG: HEN_845_804

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-245277-1	HEN_21R	Water	01/23/24 12:40	01/24/24 12:20
500-245277-2	HEN_22	Water	01/23/24 15:20	01/24/24 12:20
500-245277-3	HEN_22&D	Water	01/23/24 15:00	01/24/24 12:20
500-245277-4	HEN_27	Water	01/23/24 10:45	01/24/24 12:20
500-245277-5	HEN_32	Water	01/23/24 09:30	01/24/24 12:20
500-245277-6	HEN_34	Water	01/23/24 11:50	01/24/24 12:20
500-245277-7	HEN_35	Water	01/23/24 13:40	01/24/24 12:20
500-245277-8	HEN_35_FD	Water	01/23/24 13:40	01/24/24 12:20
500-245277-9	HEN_49	Water	01/23/24 16:10	01/24/24 12:20
500-245277-10	HEN_50	Water	01/23/24 16:10	01/24/24 12:20
500-245277-18	HEN_23	Water	01/24/24 08:35	01/25/24 11:51
500-245277-21	HEN_51	Water	01/24/24 09:00	01/25/24 11:51
500-245277-25	HEN_FB	Water	01/24/24 16:10	01/25/24 11:51
500-245277-50	HEN_YSG_ILRIVER	Water	01/22/24 14:20	01/26/24 11:45

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_21R

Lab Sample ID: 500-245277-1

Date Collected: 01/23/24 12:40

Matrix: Water

Date Received: 01/24/24 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.025		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 14:00	1
Arsenic	0.024	B	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 20:08	1
Barium	0.32		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 20:08	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 20:08	1
Boron	1.9	F1	0.050	0.013	mg/L		01/30/24 09:37	02/06/24 15:02	1
Cadmium	0.00019	J	0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 20:08	1
Calcium	130		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 20:08	1
Chromium	0.0049	J	0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 20:08	1
Cobalt	0.0022		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 20:08	1
Lead	0.0041		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 20:08	1
Magnesium	40	B	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 20:08	1
Molybdenum	0.010		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 20:08	1
Potassium	3.2		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 20:08	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 14:00	1
Sodium	54	B	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 20:08	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 20:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	97		5.0	0.58	mg/L			01/31/24 18:26	5
Sulfate (EPA 300.0)	94		5.0	1.0	mg/L			01/31/24 18:26	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	380		5.0	3.7	mg/L			01/26/24 17:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 17:45	1
Total Dissolved Solids (SM 2540C)	660		10	4.3	mg/L			01/24/24 22:31	1
Fluoride (SM 4500 F C)	0.13		0.10	0.056	mg/L			01/31/24 12:37	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	5.33				ft			01/23/24 12:40	1
Field pH	7.59				SU			01/23/24 12:40	1
Field Temperature	10.01				Degrees C			01/23/24 12:40	1
Oxidation Reduction Potential	-179.7				millivolts			01/23/24 12:40	1
Oxygen, Dissolved	1.38				mg/L			01/23/24 12:40	1
Specific Conductance	1121				umhos/cm			01/23/24 12:40	1
Turbidity	130.21				NTU			01/23/24 12:40	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_22

Date Collected: 01/23/24 15:20

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.049		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0019	J ^1+ ^2	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 14:20	1
Arsenic	0.0011	B	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 20:25	1
Barium	0.063		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 20:25	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 20:25	1
Boron	3.9		0.50	0.13	mg/L		01/30/24 09:37	02/06/24 15:34	10
Cadmium	0.0056		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 20:25	1
Calcium	95		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 20:25	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 20:25	1
Cobalt	0.0023		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 20:25	1
Lead	0.00049	J	0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 20:25	1
Magnesium	36	B	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 20:25	1
Molybdenum	0.083		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 20:25	1
Potassium	11		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 20:25	1
Selenium	0.017		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 14:20	1
Sodium	62	B	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 20:25	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 20:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 08:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	95		5.0	0.58	mg/L			01/31/24 19:12	5
Sulfate (EPA 300.0)	120		5.0	1.0	mg/L			01/31/24 19:12	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	260		5.0	3.7	mg/L			01/26/24 17:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 17:55	1
Total Dissolved Solids (SM 2540C)	660		10	4.3	mg/L			01/25/24 00:44	1
Fluoride (SM 4500 F C)	0.15		0.10	0.056	mg/L			01/31/24 12:51	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	17.95				ft			01/23/24 15:20	1
Field pH	7.66				SU			01/23/24 15:20	1
Field Temperature	14.1				Degrees C			01/23/24 15:20	1
Oxidation Reduction Potential	36.3				millivolts			01/23/24 15:20	1
Oxygen, Dissolved	0.10				mg/L			01/23/24 15:20	1
Specific Conductance	935				umhos/cm			01/23/24 15:20	1
Turbidity	19.94				NTU			01/23/24 15:20	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_22&D

Lab Sample ID: 500-245277-3

Date Collected: 01/23/24 15:00

Matrix: Water

Date Received: 01/24/24 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.015		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 14:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0018	J ^1+ ^2	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 14:39	1
Arsenic	0.0015	B	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 20:29	1
Barium	0.072		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 20:29	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 20:29	1
Boron	1.4		0.050	0.013	mg/L		01/30/24 09:37	02/02/24 14:39	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 20:29	1
Calcium	120		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 20:29	1
Chromium	0.0015	J	0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 20:29	1
Cobalt	0.00079	J	0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 20:29	1
Lead	0.00065		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 20:29	1
Magnesium	41	B	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 20:29	1
Molybdenum	0.0069		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 20:29	1
Potassium	3.4		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 20:29	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 14:39	1
Sodium	52	B	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 20:29	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 20:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 08:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	98		5.0	0.58	mg/L			01/31/24 19:27	5
Sulfate (EPA 300.0)	91		5.0	1.0	mg/L			01/31/24 19:27	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	350		5.0	3.7	mg/L			01/26/24 18:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 18:04	1
Total Dissolved Solids (SM 2540C)	670		10	4.3	mg/L			01/25/24 00:47	1
Fluoride (SM 4500 F C)	0.10		0.10	0.056	mg/L			01/31/24 12:56	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	18.73				ft			01/23/24 15:00	1
Field pH	7.38				SU			01/23/24 15:00	1
Field Temperature	12.6				Degrees C			01/23/24 15:00	1
Oxidation Reduction Potential	-129.8				millivolts			01/23/24 15:00	1
Oxygen, Dissolved	1.24				mg/L			01/23/24 15:00	1
Specific Conductance	1083				umhos/cm			01/23/24 15:00	1
Turbidity	17.22				NTU			01/23/24 15:00	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_27

Date Collected: 01/23/24 10:45

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.023		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 14:43	1
Arsenic	0.0022	B	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 20:32	1
Barium	0.12		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 20:32	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 20:32	1
Boron	2.3		0.050	0.013	mg/L		01/30/24 09:37	02/02/24 14:43	1
Cadmium	0.0020		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 20:32	1
Calcium	120		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 20:32	1
Chromium	0.0077		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 20:32	1
Cobalt	0.0038		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 20:32	1
Lead	0.0065		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 20:32	1
Magnesium	38	B	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 20:32	1
Molybdenum	0.0047	J	0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 20:32	1
Potassium	4.3		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 20:32	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 14:43	1
Sodium	50	B	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 20:32	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 20:32	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	91		5.0	0.58	mg/L			01/31/24 19:42	5
Sulfate (EPA 300.0)	130		5.0	1.0	mg/L			01/31/24 19:42	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	340		5.0	3.7	mg/L			01/26/24 18:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 18:16	1
Total Dissolved Solids (SM 2540C)	630		10	4.3	mg/L			01/25/24 00:49	1
Fluoride (SM 4500 F C)	0.11		0.10	0.056	mg/L			01/31/24 13:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	3.76				ft			01/23/24 10:45	1
Field pH	7.25				SU			01/23/24 10:45	1
Field Temperature	9.7				Degrees C			01/23/24 10:45	1
Oxidation Reduction Potential	-65.4				millivolts			01/23/24 10:45	1
Oxygen, Dissolved	-0.30				mg/L			01/23/24 10:45	1
Specific Conductance	1089				umhos/cm			01/23/24 10:45	1
Turbidity	18.13				NTU			01/23/24 10:45	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_32

Date Collected: 01/23/24 09:30

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-5

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	<0.0050		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 14:50	1
Arsenic	0.00054	J B	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 20:43	1
Barium	0.041		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 20:43	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 20:43	1
Boron	0.16		0.050	0.013	mg/L		01/30/24 09:37	02/02/24 14:50	1
Cadmium	0.00017	J	0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 20:43	1
Calcium	100		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 20:43	1
Chromium	0.0014	J	0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 20:43	1
Cobalt	0.0013		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 20:43	1
Lead	0.00055		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 20:43	1
Magnesium	38	B	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 20:43	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 20:43	1
Potassium	2.2		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 20:43	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 14:50	1
Sodium	37	B	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 20:43	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 20:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	72		5.0	0.58	mg/L			01/31/24 19:57	5
Sulfate (EPA 300.0)	80		5.0	1.0	mg/L			01/31/24 19:57	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	340		5.0	3.7	mg/L			01/26/24 18:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 18:26	1
Total Dissolved Solids (SM 2540C)	580		10	4.3	mg/L			01/25/24 00:52	1
Fluoride (SM 4500 F C)	0.11		0.10	0.056	mg/L			01/31/24 13:07	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	4.56				ft			01/23/24 09:30	1
Field pH	7.16				SU			01/23/24 09:30	1
Field Temperature	10.2				Degrees C			01/23/24 09:30	1
Oxidation Reduction Potential	157.1				millivolts			01/23/24 09:30	1
Oxygen, Dissolved	-0.07				mg/L			01/23/24 09:30	1
Specific Conductance	1001				umhos/cm			01/23/24 09:30	1
Turbidity	29.73				NTU			01/23/24 09:30	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_34

Lab Sample ID: 500-245277-6

Date Collected: 01/23/24 11:50

Matrix: Water

Date Received: 01/24/24 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.010		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 14:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 14:54	1
Arsenic	0.00081	J B	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 20:46	1
Barium	0.12		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 20:46	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 20:46	1
Boron	0.13		0.050	0.013	mg/L		01/30/24 09:37	02/02/24 14:54	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 20:46	1
Calcium	170		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 20:46	1
Chromium	0.0012	J	0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 20:46	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 20:46	1
Lead	0.00057		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 20:46	1
Magnesium	48	B	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 20:46	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 20:46	1
Potassium	0.61		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 20:46	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 14:54	1
Sodium	51	B	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 20:46	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 20:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	72		5.0	0.58	mg/L			01/31/24 20:12	5
Sulfate (EPA 300.0)	45		1.0	0.21	mg/L			01/31/24 14:23	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	590		5.0	3.7	mg/L			01/26/24 18:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 18:35	1
Total Dissolved Solids (SM 2540C)	790		10	4.3	mg/L			01/25/24 00:55	1
Fluoride (SM 4500 F C)	0.14		0.10	0.056	mg/L			01/31/24 13:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	4.05				ft			01/23/24 11:50	1
Field pH	7.09				SU			01/23/24 11:50	1
Field Temperature	10.5				Degrees C			01/23/24 11:50	1
Oxidation Reduction Potential	-148.3				millivolts			01/23/24 11:50	1
Oxygen, Dissolved	-0.27				mg/L			01/23/24 11:50	1
Specific Conductance	1304				umhos/cm			01/23/24 11:50	1
Turbidity	12.45				NTU			01/23/24 11:50	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_35

Date Collected: 01/23/24 13:40

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-7

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	0.0079		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 14:58	1
Arsenic	0.0016	B	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 20:49	1
Barium	0.029		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 20:49	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 20:49	1
Boron	3.0		0.050	0.013	mg/L		01/30/24 09:37	02/02/24 14:58	1
Cadmium	0.00019	J	0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 20:49	1
Calcium	160		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 20:49	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 20:49	1
Cobalt	0.0010		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 20:49	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 20:49	1
Magnesium	21	B	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 20:49	1
Molybdenum	0.044		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 20:49	1
Potassium	6.4		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 20:49	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 14:58	1
Sodium	15	B	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 20:49	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 20:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	9.7		1.0	0.12	mg/L			01/31/24 14:38	1
Sulfate (EPA 300.0)	220		10	2.1	mg/L			01/31/24 20:28	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	280		5.0	3.7	mg/L			01/26/24 18:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 18:45	1
Total Dissolved Solids (SM 2540C)	650		10	4.3	mg/L			01/25/24 00:57	1
Fluoride (SM 4500 F C)	0.24		0.10	0.056	mg/L			01/31/24 13:17	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	7.90				ft			01/23/24 13:40	1
Field pH	7.10				SU			01/23/24 13:40	1
Field Temperature	11.5				Degrees C			01/23/24 13:40	1
Oxidation Reduction Potential	28.5				millivolts			01/23/24 13:40	1
Oxygen, Dissolved	-0.17				mg/L			01/23/24 13:40	1
Specific Conductance	856				umhos/cm			01/23/24 13:40	1
Turbidity	5.82				NTU			01/23/24 13:40	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_35_FD

Lab Sample ID: 500-245277-8

Date Collected: 01/23/24 13:40

Matrix: Water

Date Received: 01/24/24 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0094		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 15:06	1
Arsenic	0.0013	B	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 20:53	1
Barium	0.028		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 20:53	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 20:53	1
Boron	3.4		0.050	0.013	mg/L		01/30/24 09:37	02/02/24 15:06	1
Cadmium	0.00018	J	0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 20:53	1
Calcium	160		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 20:53	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 20:53	1
Cobalt	0.00089	J	0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 20:53	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 20:53	1
Magnesium	20	B	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 20:53	1
Molybdenum	0.045		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 20:53	1
Potassium	6.7		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 20:53	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 15:06	1
Sodium	15	B	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 20:53	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 20:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	11		1.0	0.12	mg/L			01/31/24 15:24	1
Sulfate (EPA 300.0)	240		10	2.1	mg/L			01/31/24 20:43	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	280		5.0	3.7	mg/L			01/26/24 18:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 18:55	1
Total Dissolved Solids (SM 2540C)	690		10	4.3	mg/L			01/25/24 01:00	1
Fluoride (SM 4500 F C)	0.22		0.10	0.056	mg/L			01/31/24 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)	7.90				ft			01/23/24 13:40	1
Field pH	7.10				SU			01/23/24 13:40	1
Field Temperature	11.5				Degrees C			01/23/24 13:40	1
Oxidation Reduction Potential	28.5				millivolts			01/23/24 13:40	1
Oxygen, Dissolved	-0.17				mg/L			01/23/24 13:40	1
Specific Conductance	856				umhos/cm			01/23/24 13:40	1
Turbidity	5.82				NTU			01/23/24 13:40	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_49

Lab Sample ID: 500-245277-9

Date Collected: 01/23/24 16:10

Matrix: Water

Date Received: 01/24/24 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.022		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 14:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/31/24 08:07	02/06/24 18:43	1
Arsenic	0.00099	J	0.0010	0.00023	mg/L		01/31/24 08:07	02/01/24 17:38	1
Barium	0.066		0.0025	0.00073	mg/L		01/31/24 08:07	02/01/24 17:38	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/31/24 08:07	02/06/24 18:43	1
Boron	0.70	B	0.050	0.013	mg/L		01/31/24 08:07	02/06/24 18:43	1
Cadmium	0.0014		0.00050	0.00017	mg/L		01/31/24 08:07	02/01/24 17:38	1
Calcium	110		0.20	0.044	mg/L		01/31/24 08:07	02/06/24 18:43	1
Chromium	0.0022	J	0.0050	0.0011	mg/L		01/31/24 08:07	02/01/24 17:38	1
Cobalt	0.0041		0.0010	0.00040	mg/L		01/31/24 08:07	02/01/24 17:38	1
Lead	0.0015		0.00050	0.00019	mg/L		01/31/24 08:07	02/01/24 17:38	1
Magnesium	30		0.20	0.049	mg/L		01/31/24 08:07	02/01/24 17:38	1
Molybdenum	0.025		0.0050	0.0025	mg/L		01/31/24 08:07	02/01/24 17:38	1
Potassium	11		0.50	0.11	mg/L		01/31/24 08:07	02/01/24 17:38	1
Selenium	<0.0025	^1+	0.0025	0.00098	mg/L		01/31/24 08:07	02/06/24 18:43	1
Sodium	61		0.20	0.077	mg/L		01/31/24 08:07	02/06/24 18:43	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/31/24 08:07	02/06/24 18:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00050		0.00050	0.00020	mg/L		02/02/24 09:55	02/05/24 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	100	B	5.0	0.58	mg/L			02/01/24 11:32	5
Sulfate (EPA 300.0)	81		5.0	1.0	mg/L			02/01/24 11:32	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	340		5.0	3.7	mg/L			01/26/24 19:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 19:04	1
Total Dissolved Solids (SM 2540C)	620		10	4.3	mg/L			01/25/24 01:02	1
Fluoride (SM 4500 F C)	0.15		0.10	0.056	mg/L			02/09/24 10:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	21.25				ft			01/23/24 16:10	1
Field pH	7.16				SU			01/23/24 16:10	1
Field Temperature	13.0				Degrees C			01/23/24 16:10	1
Oxidation Reduction Potential	44.3				millivolts			01/23/24 16:10	1
Oxygen, Dissolved	0.16				mg/L			01/23/24 16:10	1
Specific Conductance	1054				umhos/cm			01/23/24 16:10	1
Turbidity	70.62				NTU			01/23/24 16:10	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_50

Lab Sample ID: 500-245277-10

Date Collected: 01/23/24 16:10

Matrix: Water

Date Received: 01/24/24 12:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.029		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 15:14	1
Arsenic	0.0011	B	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 20:56	1
Barium	0.083		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 20:56	1
Beryllium	0.00058	J	0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 20:56	1
Boron	1.5		0.050	0.013	mg/L		01/30/24 09:37	02/02/24 15:14	1
Cadmium	0.0024		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 20:56	1
Calcium	110		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 20:56	1
Chromium	0.0015	J	0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 20:56	1
Cobalt	0.0062		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 20:56	1
Lead	0.00089		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 20:56	1
Magnesium	24	B	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 20:56	1
Molybdenum	0.056		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 20:56	1
Potassium	9.2		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 20:56	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 15:14	1
Sodium	56	B	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 20:56	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 20:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 09:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	93	B	5.0	0.58	mg/L			02/01/24 12:18	5
Sulfate (EPA 300.0)	120		5.0	1.0	mg/L			02/01/24 12:18	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	250		5.0	3.7	mg/L			01/26/24 19:14	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 19:14	1
Total Dissolved Solids (SM 2540C)	610		10	4.3	mg/L			01/25/24 01:10	1
Fluoride (SM 4500 F C)	0.13		0.10	0.056	mg/L			01/31/24 13:36	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	17.57				ft			01/23/24 16:10	1
Field pH	7.59				SU			01/23/24 16:10	1
Field Temperature	13.7				Degrees C			01/23/24 16:10	1
Oxidation Reduction Potential	57.5				millivolts			01/23/24 16:10	1
Oxygen, Dissolved	132				mg/L			01/23/24 16:10	1
Specific Conductance	910				umhos/cm			01/23/24 16:10	1
Turbidity	67.40				NTU			01/23/24 16:10	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_23

Lab Sample ID: 500-245277-18

Date Collected: 01/24/24 08:35

Matrix: Water

Date Received: 01/25/24 11:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0027	J	0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 15:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 16:18	1
Arsenic	0.0013	B	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 21:24	1
Barium	0.044		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 21:24	1
Beryllium	0.00066	J	0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 21:24	1
Boron	8.0		0.050	0.013	mg/L		01/30/24 09:37	01/31/24 21:24	1
Cadmium	0.00019	J	0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 21:24	1
Calcium	110		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 21:24	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 21:24	1
Cobalt	0.00047	J	0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 21:24	1
Lead	0.00035	J	0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 21:24	1
Magnesium	74	B	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 21:24	1
Molybdenum	0.017		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 21:24	1
Potassium	3.2		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 21:24	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 16:18	1
Sodium	46	B	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 21:24	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 21:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 08:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	61	B	5.0	0.58	mg/L			02/01/24 14:55	5
Sulfate (EPA 300.0)	280		20	4.1	mg/L			02/03/24 12:51	20
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	190	B	5.0	3.7	mg/L			02/02/24 10:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			02/02/24 10:29	1
Total Dissolved Solids (SM 2540C)	920		10	4.3	mg/L			01/29/24 02:41	1
Fluoride (SM 4500 F C)	0.15		0.10	0.056	mg/L			02/09/24 11:39	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	16.48				ft			01/24/24 08:35	1
Field pH	7.56				SU			01/24/24 08:35	1
Field Temperature	11.4				Degrees C			01/24/24 08:35	1
Oxidation Reduction Potential	-145.9				millivolts			01/24/24 08:35	1
Oxygen, Dissolved	0.11				mg/L			01/24/24 08:35	1
Specific Conductance	1134				umhos/cm			01/24/24 08:35	1
Turbidity	6.25				NTU			01/24/24 08:35	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_51

Lab Sample ID: 500-245277-21

Date Collected: 01/24/24 09:00

Matrix: Water

Date Received: 01/25/24 11:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.025		0.0050	0.0020	mg/L		01/26/24 08:57	01/29/24 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 16:32	1
Arsenic	0.024	B	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 21:34	1
Barium	0.12		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 21:34	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 21:34	1
Boron	1.4		0.050	0.013	mg/L		01/30/24 09:37	01/31/24 21:34	1
Cadmium	0.00042	J	0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 21:34	1
Calcium	120		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 21:34	1
Chromium	0.0057		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 21:34	1
Cobalt	0.0025		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 21:34	1
Lead	0.0053		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 21:34	1
Magnesium	38	B	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 21:34	1
Molybdenum	0.0088		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 21:34	1
Potassium	6.8		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 21:34	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 16:32	1
Sodium	55	B	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 21:34	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 21:34	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	100	B	5.0	0.58	mg/L			02/01/24 15:42	5
Sulfate (EPA 300.0)	92		5.0	1.0	mg/L			02/01/24 15:42	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	360	B	5.0	3.7	mg/L			02/02/24 10:56	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			02/02/24 10:56	1
Total Dissolved Solids (SM 2540C)	640		10	4.3	mg/L			01/29/24 02:59	1
Fluoride (SM 4500 F C)	0.13		0.10	0.056	mg/L			02/09/24 11:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	17.81				ft			01/24/24 09:00	1
Field pH	7.42				SU			01/24/24 09:00	1
Field Temperature	9.9				Degrees C			01/24/24 09:00	1
Oxidation Reduction Potential	-178.2				millivolts			01/24/24 09:00	1
Oxygen, Dissolved	-0.06				mg/L			01/24/24 09:00	1
Specific Conductance	1094				umhos/cm			01/24/24 09:00	1
Turbidity	109.77				NTU			01/24/24 09:00	1

Client Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_FB

Lab Sample ID: 500-245277-25

Date Collected: 01/24/24 16:10

Matrix: Water

Date Received: 01/25/24 11:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		01/26/24 08:57	01/29/24 15:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 17:00	02/06/24 17:44	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		01/30/24 17:00	02/01/24 16:20	1
Barium	<0.0025		0.0025	0.00073	mg/L		01/30/24 17:00	02/01/24 16:20	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 17:00	02/06/24 17:44	1
Boron	<0.050		0.050	0.013	mg/L		01/30/24 17:00	02/06/24 17:44	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 17:00	02/01/24 16:20	1
Calcium	<0.20		0.20	0.044	mg/L		01/30/24 17:00	02/06/24 17:44	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 17:00	02/01/24 16:20	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 17:00	02/01/24 16:20	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 17:00	02/01/24 16:20	1
Magnesium	<0.20		0.20	0.049	mg/L		01/30/24 17:00	02/01/24 16:20	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		01/30/24 17:00	02/01/24 16:20	1
Potassium	<0.50		0.50	0.11	mg/L		01/30/24 17:00	02/01/24 16:20	1
Selenium	<0.0025	^1+	0.0025	0.00098	mg/L		01/30/24 17:00	02/06/24 17:44	1
Sodium	0.10	J	0.20	0.077	mg/L		01/30/24 17:00	02/01/24 16:20	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 17:00	02/06/24 17:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	<5.0		5.0	0.58	mg/L			02/03/24 13:36	5
Sulfate (EPA 300.0)	<5.0		5.0	1.0	mg/L			02/03/24 13:36	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	6.4	H	5.0	3.7	mg/L			02/08/24 17:38	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0	H	5.0	3.7	mg/L			02/08/24 17:38	1
Total Dissolved Solids (SM 2540C)	36		10	4.3	mg/L			01/29/24 03:17	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			02/09/24 12:11	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_YSG_ILRIVER Lab Sample ID: 500-245277-50
Date Collected: 01/22/24 14:20 Matrix: Water
Date Received: 01/26/24 11:45

Method: EPA Field Sampling - Field Sampling									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	22.07				ft			01/22/24 14:20	1

Definitions/Glossary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
JEN_24_584
SDG: HEN_845_804

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.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

ATTACHMENT B.

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

Job ID: 500-245277-5
SDG: HEN_845_804

Metals

Prep Batch: 751596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-21	HEN_51	Total Recoverable	Water	200.7	
500-245277-25	HEN_FB	Total Recoverable	Water	200.7	
MB 500-751596/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-751596/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 751952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-21	HEN_51	Total Recoverable	Water	200.7 Rev 4.4	751596
500-245277-25	HEN_FB	Total Recoverable	Water	200.7 Rev 4.4	751596
MB 500-751596/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	751596
LCS 500-751596/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	751596

Prep Batch: 751964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total Recoverable	Water	3005A	
500-245277-2	HEN_22	Total Recoverable	Water	3005A	
500-245277-3	HEN_22&D	Total Recoverable	Water	3005A	
500-245277-4	HEN_27	Total Recoverable	Water	3005A	
500-245277-5	HEN_32	Total Recoverable	Water	3005A	
500-245277-6	HEN_34	Total Recoverable	Water	3005A	
500-245277-7	HEN_35	Total Recoverable	Water	3005A	
500-245277-8	HEN_35_FD	Total Recoverable	Water	3005A	
500-245277-10	HEN_50	Total Recoverable	Water	3005A	
500-245277-18	HEN_23	Total Recoverable	Water	3005A	
500-245277-21	HEN_51	Total Recoverable	Water	3005A	
MB 500-751964/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-751964/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-245277-1 MS	HEN_21R_MS	Total Recoverable	Water	3005A	
500-245277-1 MSD	HEN_21R_MSD	Total Recoverable	Water	3005A	
500-245277-1 DU	HEN_21R	Total Recoverable	Water	3005A	

Prep Batch: 752046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-25	HEN_FB	Total Recoverable	Water	3005A	
MB 500-752046/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-752046/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 752130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-9	HEN_49	Total Recoverable	Water	3005A	
MB 500-752130/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-752130/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-245277-9 MS	HEN_49_MS	Total Recoverable	Water	3005A	
500-245277-9 MSD	HEN_49_MSD	Total Recoverable	Water	3005A	
500-245277-9 DU	HEN_49	Total Recoverable	Water	3005A	

Prep Batch: 752276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total Recoverable	Water	200.7	
500-245277-2	HEN_22	Total Recoverable	Water	200.7	
500-245277-3	HEN_22&D	Total Recoverable	Water	200.7	

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QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-5
SDG: HEN_845_804

Metals (Continued)

Prep Batch: 752276 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-4	HEN_27	Total Recoverable	Water	200.7	
500-245277-5	HEN_32	Total Recoverable	Water	200.7	
500-245277-6	HEN_34	Total Recoverable	Water	200.7	
500-245277-7	HEN_35	Total Recoverable	Water	200.7	
500-245277-8	HEN_35_FD	Total Recoverable	Water	200.7	
500-245277-9	HEN_49	Total Recoverable	Water	200.7	
500-245277-10	HEN_50	Total Recoverable	Water	200.7	
500-245277-18	HEN_23	Total Recoverable	Water	200.7	
MB 500-752276/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-752276/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-245277-1 MS	HEN_21R_MS	Total Recoverable	Water	200.7	
500-245277-1 MSD	HEN_21R_MSD	Total Recoverable	Water	200.7	
500-245277-9 MS	HEN_49_MS	Total Recoverable	Water	200.7	
500-245277-9 MSD	HEN_49_MSD	Total Recoverable	Water	200.7	
500-245277-1 DU	HEN_21R	Total Recoverable	Water	200.7	
500-245277-9 DU	HEN_49	Total Recoverable	Water	200.7	

Analysis Batch: 752304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total Recoverable	Water	6020B	751964
500-245277-2	HEN_22	Total Recoverable	Water	6020B	751964
500-245277-3	HEN_22&D	Total Recoverable	Water	6020B	751964
500-245277-4	HEN_27	Total Recoverable	Water	6020B	751964
500-245277-5	HEN_32	Total Recoverable	Water	6020B	751964
500-245277-6	HEN_34	Total Recoverable	Water	6020B	751964
500-245277-7	HEN_35	Total Recoverable	Water	6020B	751964
500-245277-8	HEN_35_FD	Total Recoverable	Water	6020B	751964
500-245277-10	HEN_50	Total Recoverable	Water	6020B	751964
500-245277-18	HEN_23	Total Recoverable	Water	6020B	751964
500-245277-21	HEN_51	Total Recoverable	Water	6020B	751964
MB 500-751964/1-A	Method Blank	Total Recoverable	Water	6020B	751964
LCS 500-751964/2-A	Lab Control Sample	Total Recoverable	Water	6020B	751964
500-245277-1 MS	HEN_21R_MS	Total Recoverable	Water	6020B	751964
500-245277-1 MSD	HEN_21R_MSD	Total Recoverable	Water	6020B	751964
500-245277-1 DU	HEN_21R	Total Recoverable	Water	6020B	751964

Analysis Batch: 752468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-9	HEN_49	Total Recoverable	Water	6020B	752130
500-245277-25	HEN_FB	Total Recoverable	Water	6020B	752046
MB 500-752046/1-A	Method Blank	Total Recoverable	Water	6020B	752046
MB 500-752130/1-A	Method Blank	Total Recoverable	Water	6020B	752130
LCS 500-752046/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752046
LCS 500-752130/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752130
500-245277-9 MS	HEN_49_MS	Total Recoverable	Water	6020B	752130
500-245277-9 MSD	HEN_49_MSD	Total Recoverable	Water	6020B	752130
500-245277-9 DU	HEN_49	Total Recoverable	Water	6020B	752130

Prep Batch: 752474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total/NA	Water	7470A	

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QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-5
SDG: HEN_845_804

Metals (Continued)

Prep Batch: 752474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-2	HEN_22	Total/NA	Water	7470A	
500-245277-3	HEN_22&D	Total/NA	Water	7470A	
500-245277-4	HEN_27	Total/NA	Water	7470A	
500-245277-5	HEN_32	Total/NA	Water	7470A	
500-245277-6	HEN_34	Total/NA	Water	7470A	
500-245277-7	HEN_35	Total/NA	Water	7470A	
500-245277-8	HEN_35_FD	Total/NA	Water	7470A	
500-245277-9	HEN_49	Total/NA	Water	7470A	
500-245277-10	HEN_50	Total/NA	Water	7470A	
MB 500-752474/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-752474/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-245277-1 MS	HEN_21R_MS	Total/NA	Water	7470A	
500-245277-1 MSD	HEN_21R_MSD	Total/NA	Water	7470A	
500-245277-9 MS	HEN_49_MS	Total/NA	Water	7470A	
500-245277-9 MSD	HEN_49_MSD	Total/NA	Water	7470A	
500-245277-1 DU	HEN_21R	Total/NA	Water	7470A	
500-245277-9 DU	HEN_49	Total/NA	Water	7470A	

Analysis Batch: 752646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total Recoverable	Water	6020B	751964
500-245277-2	HEN_22	Total Recoverable	Water	6020B	751964
500-245277-3	HEN_22&D	Total Recoverable	Water	6020B	751964
500-245277-4	HEN_27	Total Recoverable	Water	6020B	751964
500-245277-5	HEN_32	Total Recoverable	Water	6020B	751964
500-245277-6	HEN_34	Total Recoverable	Water	6020B	751964
500-245277-7	HEN_35	Total Recoverable	Water	6020B	751964
500-245277-8	HEN_35_FD	Total Recoverable	Water	6020B	751964
500-245277-10	HEN_50	Total Recoverable	Water	6020B	751964
500-245277-18	HEN_23	Total Recoverable	Water	6020B	751964
500-245277-21	HEN_51	Total Recoverable	Water	6020B	751964
MB 500-751964/1-A	Method Blank	Total Recoverable	Water	6020B	751964
LCS 500-751964/2-A	Lab Control Sample	Total Recoverable	Water	6020B	751964
500-245277-1 MS	HEN_21R_MS	Total Recoverable	Water	6020B	751964
500-245277-1 MSD	HEN_21R_MSD	Total Recoverable	Water	6020B	751964
500-245277-1 DU	HEN_21R	Total Recoverable	Water	6020B	751964

Analysis Batch: 752687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total/NA	Water	7470A	752474
500-245277-2	HEN_22	Total/NA	Water	7470A	752474
500-245277-3	HEN_22&D	Total/NA	Water	7470A	752474
500-245277-4	HEN_27	Total/NA	Water	7470A	752474
500-245277-5	HEN_32	Total/NA	Water	7470A	752474
500-245277-6	HEN_34	Total/NA	Water	7470A	752474
500-245277-7	HEN_35	Total/NA	Water	7470A	752474
500-245277-8	HEN_35_FD	Total/NA	Water	7470A	752474
500-245277-9	HEN_49	Total/NA	Water	7470A	752474
500-245277-10	HEN_50	Total/NA	Water	7470A	752474
MB 500-752474/12-A	Method Blank	Total/NA	Water	7470A	752474
LCS 500-752474/13-A	Lab Control Sample	Total/NA	Water	7470A	752474

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QC Association Summary

845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-5
SDG: HEN_845_804

Metals (Continued)

Analysis Batch: 752687 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1 MS	HEN_21R_MS	Total/NA	Water	7470A	752474
500-245277-1 MSD	HEN_21R_MSD	Total/NA	Water	7470A	752474
500-245277-9 MS	HEN_49_MS	Total/NA	Water	7470A	752474
500-245277-9 MSD	HEN_49_MSD	Total/NA	Water	7470A	752474
500-245277-1 DU	HEN_21R	Total/NA	Water	7470A	752474
500-245277-9 DU	HEN_49	Total/NA	Water	7470A	752474

Prep Batch: 752693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-18	HEN_23	Total/NA	Water	7470A	
500-245277-21	HEN_51	Total/NA	Water	7470A	
500-245277-25	HEN_FB	Total/NA	Water	7470A	
MB 500-752693/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-752693/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 752818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-2	HEN_22	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-3	HEN_22&D	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-4	HEN_27	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-5	HEN_32	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-6	HEN_34	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-7	HEN_35	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-8	HEN_35_FD	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-9	HEN_49	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-10	HEN_50	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-18	HEN_23	Total Recoverable	Water	200.7 Rev 4.4	752276
MB 500-752276/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	752276
LCS 500-752276/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-1 MS	HEN_21R_MS	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-1 MSD	HEN_21R_MSD	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-9 MS	HEN_49_MS	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-9 MSD	HEN_49_MSD	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-1 DU	HEN_21R	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-9 DU	HEN_49	Total Recoverable	Water	200.7 Rev 4.4	752276

Analysis Batch: 752861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-18	HEN_23	Total/NA	Water	7470A	752693
500-245277-21	HEN_51	Total/NA	Water	7470A	752693
500-245277-25	HEN_FB	Total/NA	Water	7470A	752693
MB 500-752693/12-A	Method Blank	Total/NA	Water	7470A	752693
LCS 500-752693/13-A	Lab Control Sample	Total/NA	Water	7470A	752693

Analysis Batch: 752984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total Recoverable	Water	6020B	751964
500-245277-2	HEN_22	Total Recoverable	Water	6020B	751964
500-245277-9	HEN_49	Total Recoverable	Water	6020B	752130
500-245277-25	HEN_FB	Total Recoverable	Water	6020B	752046

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QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-5
SDG: HEN_845_804

Metals (Continued)

Analysis Batch: 752984 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-751964/1-A	Method Blank	Total Recoverable	Water	6020B	751964
MB 500-752046/1-A	Method Blank	Total Recoverable	Water	6020B	752046
MB 500-752130/1-A	Method Blank	Total Recoverable	Water	6020B	752130
LCS 500-751964/2-A	Lab Control Sample	Total Recoverable	Water	6020B	751964
LCS 500-752046/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752046
LCS 500-752130/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752130
500-245277-1 MS	HEN_21R_MS	Total Recoverable	Water	6020B	751964
500-245277-1 MSD	HEN_21R_MSD	Total Recoverable	Water	6020B	751964
500-245277-9 MS	HEN_49_MS	Total Recoverable	Water	6020B	752130
500-245277-9 MSD	HEN_49_MSD	Total Recoverable	Water	6020B	752130
500-245277-1 DU	HEN_21R	Total Recoverable	Water	6020B	751964
500-245277-9 DU	HEN_49	Total Recoverable	Water	6020B	752130

General Chemistry

Analysis Batch: 751341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total/NA	Water	SM 2540C	
MB 500-751341/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-751341/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-245277-1 MS	HEN_21R_MS	Total/NA	Water	SM 2540C	
500-245277-1 MSD	HEN_21R_MSD	Total/NA	Water	SM 2540C	

Analysis Batch: 751342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-2	HEN_22	Total/NA	Water	SM 2540C	
500-245277-3	HEN_22&D	Total/NA	Water	SM 2540C	
500-245277-4	HEN_27	Total/NA	Water	SM 2540C	
500-245277-5	HEN_32	Total/NA	Water	SM 2540C	
500-245277-6	HEN_34	Total/NA	Water	SM 2540C	
500-245277-7	HEN_35	Total/NA	Water	SM 2540C	
500-245277-8	HEN_35_FD	Total/NA	Water	SM 2540C	
500-245277-9	HEN_49	Total/NA	Water	SM 2540C	
500-245277-10	HEN_50	Total/NA	Water	SM 2540C	
MB 500-751342/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-751342/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-245277-9 MS	HEN_49_MS	Total/NA	Water	SM 2540C	
500-245277-9 MSD	HEN_49_MSD	Total/NA	Water	SM 2540C	
500-245277-10 DU	HEN_50	Total/NA	Water	SM 2540C	

Analysis Batch: 751719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-18	HEN_23	Total/NA	Water	SM 2540C	
MB 500-751719/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-751719/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 751720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-21	HEN_51	Total/NA	Water	SM 2540C	
500-245277-25	HEN_FB	Total/NA	Water	SM 2540C	
MB 500-751720/1	Method Blank	Total/NA	Water	SM 2540C	

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QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-5
SDG: HEN_845_804

General Chemistry (Continued)

Analysis Batch: 751720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-751720/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-245277-21 MS	HEN_51	Total/NA	Water	SM 2540C	
500-245277-21 DU	HEN_51	Total/NA	Water	SM 2540C	

Analysis Batch: 751763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total/NA	Water	SM 2320B	
500-245277-2	HEN_22	Total/NA	Water	SM 2320B	
500-245277-3	HEN_22&D	Total/NA	Water	SM 2320B	
500-245277-4	HEN_27	Total/NA	Water	SM 2320B	
500-245277-5	HEN_32	Total/NA	Water	SM 2320B	
500-245277-6	HEN_34	Total/NA	Water	SM 2320B	
500-245277-7	HEN_35	Total/NA	Water	SM 2320B	
500-245277-8	HEN_35_FD	Total/NA	Water	SM 2320B	
500-245277-9	HEN_49	Total/NA	Water	SM 2320B	
500-245277-10	HEN_50	Total/NA	Water	SM 2320B	
MB 500-751763/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-751763/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 752102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-6	HEN_34	Total/NA	Water	300.0	
500-245277-7	HEN_35	Total/NA	Water	300.0	
500-245277-8	HEN_35_FD	Total/NA	Water	300.0	
MB 500-752102/3	Method Blank	Total/NA	Water	300.0	
LCS 500-752102/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 752222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total/NA	Water	300.0	
500-245277-2	HEN_22	Total/NA	Water	300.0	
500-245277-3	HEN_22&D	Total/NA	Water	300.0	
500-245277-4	HEN_27	Total/NA	Water	300.0	
500-245277-5	HEN_32	Total/NA	Water	300.0	
500-245277-6	HEN_34	Total/NA	Water	300.0	
500-245277-7	HEN_35	Total/NA	Water	300.0	
500-245277-8	HEN_35_FD	Total/NA	Water	300.0	
MB 500-752222/3	Method Blank	Total/NA	Water	300.0	
LCS 500-752222/4	Lab Control Sample	Total/NA	Water	300.0	
500-245277-1 MS	HEN_21R_MS	Total/NA	Water	300.0	
500-245277-1 MSD	HEN_21R_MSD	Total/NA	Water	300.0	

Analysis Batch: 752307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-9	HEN_49	Total/NA	Water	300.0	
500-245277-10	HEN_50	Total/NA	Water	300.0	
500-245277-18	HEN_23	Total/NA	Water	300.0	
500-245277-21	HEN_51	Total/NA	Water	300.0	
MB 500-752307/3	Method Blank	Total/NA	Water	300.0	
LCS 500-752307/4	Lab Control Sample	Total/NA	Water	300.0	
500-245277-9 MS	HEN_49_MS	Total/NA	Water	300.0	

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QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-5
SDG: HEN_845_804

General Chemistry (Continued)

Analysis Batch: 752307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-9 MSD	HEN_49_MSD	Total/NA	Water	300.0	

Analysis Batch: 752321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total/NA	Water	SM 4500 F C	
500-245277-2	HEN_22	Total/NA	Water	SM 4500 F C	
500-245277-3	HEN_22&D	Total/NA	Water	SM 4500 F C	
500-245277-4	HEN_27	Total/NA	Water	SM 4500 F C	
500-245277-5	HEN_32	Total/NA	Water	SM 4500 F C	
500-245277-6	HEN_34	Total/NA	Water	SM 4500 F C	
500-245277-7	HEN_35	Total/NA	Water	SM 4500 F C	
500-245277-8	HEN_35_FD	Total/NA	Water	SM 4500 F C	
500-245277-10	HEN_50	Total/NA	Water	SM 4500 F C	
MB 500-752321/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-752321/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-245277-1 MS	HEN_21R_MS	Total/NA	Water	SM 4500 F C	
500-245277-1 MSD	HEN_21R_MSD	Total/NA	Water	SM 4500 F C	

Analysis Batch: 752534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-18	HEN_23	Total/NA	Water	300.0	
500-245277-25	HEN_FB	Total/NA	Water	300.0	
MB 500-752534/3	Method Blank	Total/NA	Water	300.0	
LCS 500-752534/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 753214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-18	HEN_23	Total/NA	Water	SM 2320B	
500-245277-21	HEN_51	Total/NA	Water	SM 2320B	
MB 500-753214/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-753214/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 753401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-25	HEN_FB	Total/NA	Water	SM 2320B	
MB 500-753401/53	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-753401/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 753484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-9	HEN_49	Total/NA	Water	SM 4500 F C	
500-245277-18	HEN_23	Total/NA	Water	SM 4500 F C	
500-245277-21	HEN_51	Total/NA	Water	SM 4500 F C	
500-245277-25	HEN_FB	Total/NA	Water	SM 4500 F C	
MB 500-753484/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-753484/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-245277-9 MS	HEN_49_MS	Total/NA	Water	SM 4500 F C	
500-245277-9 MSD	HEN_49_MSD	Total/NA	Water	SM 4500 F C	

QC Association Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Field Service / Mobile Lab

Analysis Batch: 753002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total/NA	Water	Field Sampling	
500-245277-2	HEN_22	Total/NA	Water	Field Sampling	
500-245277-3	HEN_22&D	Total/NA	Water	Field Sampling	
500-245277-4	HEN_27	Total/NA	Water	Field Sampling	
500-245277-5	HEN_32	Total/NA	Water	Field Sampling	
500-245277-6	HEN_34	Total/NA	Water	Field Sampling	
500-245277-7	HEN_35	Total/NA	Water	Field Sampling	
500-245277-8	HEN_35_FD	Total/NA	Water	Field Sampling	
500-245277-9	HEN_49	Total/NA	Water	Field Sampling	
500-245277-10	HEN_50	Total/NA	Water	Field Sampling	
500-245277-18	HEN_23	Total/NA	Water	Field Sampling	
500-245277-21	HEN_51	Total/NA	Water	Field Sampling	

Analysis Batch: 753107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-50	HEN_YSG_ILRIVER	Total/NA	Water	Field Sampling	

QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-751596/1-A
Matrix: Water
Analysis Batch: 751952

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 751596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		01/26/24 08:57	01/29/24 14:50	1

Lab Sample ID: LCS 500-751596/2-A
Matrix: Water
Analysis Batch: 751952

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 751596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.276		mg/L		110	85 - 115

Lab Sample ID: MB 500-752276/1-A
Matrix: Water
Analysis Batch: 752818

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 13:35	1

Lab Sample ID: LCS 500-752276/2-A
Matrix: Water
Analysis Batch: 752818

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752276

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

Lab Sample ID: 500-245277-1 MS
Matrix: Water
Analysis Batch: 752818

Client Sample ID: HEN_21R_MS
Prep Type: Total Recoverable
Prep Batch: 752276

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.025		0.250	0.293		mg/L		107	70 - 130

Lab Sample ID: 500-245277-1 MSD
Matrix: Water
Analysis Batch: 752818

Client Sample ID: HEN_21R_MSD
Prep Type: Total Recoverable
Prep Batch: 752276

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.025		0.250	0.299		mg/L		110	70 - 130	2	20

Lab Sample ID: 500-245277-9 MS
Matrix: Water
Analysis Batch: 752818

Client Sample ID: HEN_49_MS
Prep Type: Total Recoverable
Prep Batch: 752276

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.022		0.250	0.292		mg/L		108	70 - 130

Lab Sample ID: 500-245277-9 MSD
Matrix: Water
Analysis Batch: 752818

Client Sample ID: HEN_49_MSD
Prep Type: Total Recoverable
Prep Batch: 752276

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.022		0.250	0.286		mg/L		105	70 - 130	2	20

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QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: 500-245277-1 DU
Matrix: Water
Analysis Batch: 752818

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 752276

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.025		0.0258		mg/L		1	20

Lab Sample ID: 500-245277-9 DU
Matrix: Water
Analysis Batch: 752818

Client Sample ID: HEN_49
Prep Type: Total Recoverable
Prep Batch: 752276

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.022		0.0228		mg/L		2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-751964/1-A
Matrix: Water
Analysis Batch: 752304

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000257	J	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 20:01	1
Barium	<0.0025		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 20:01	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 20:01	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 20:01	1
Calcium	<0.20		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 20:01	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 20:01	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 20:01	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 20:01	1
Magnesium	0.0659	J	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 20:01	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 20:01	1
Potassium	<0.50		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 20:01	1
Sodium	0.0938	J	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 20:01	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 20:01	1

Lab Sample ID: MB 500-751964/1-A
Matrix: Water
Analysis Batch: 752646

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 13:53	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 13:53	1

Lab Sample ID: MB 500-751964/1-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050	0.013	mg/L		01/30/24 09:37	02/06/24 14:54	1

QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

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

Lab Sample ID: LCS 500-751964/2-A
Matrix: Water
Analysis Batch: 752304

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Barium	0.500	0.542		mg/L		108	80 - 120
Beryllium	0.0500	0.0429		mg/L		86	80 - 120
Cadmium	0.0500	0.0528		mg/L		106	80 - 120
Calcium	10.0	8.00		mg/L		80	80 - 120
Chromium	0.200	0.203		mg/L		102	80 - 120
Cobalt	0.500	0.514		mg/L		103	80 - 120
Lead	0.100	0.0994		mg/L		99	80 - 120
Magnesium	10.0	10.5		mg/L		105	80 - 120
Molybdenum	1.00	0.974		mg/L		97	80 - 120
Potassium	10.0	10.5		mg/L		105	80 - 120
Sodium	10.0	10.4		mg/L		104	80 - 120
Thallium	0.100	0.0985		mg/L		98	80 - 120

Lab Sample ID: LCS 500-751964/2-A
Matrix: Water
Analysis Batch: 752646

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.511	^1+	mg/L		102	80 - 120
Selenium	0.100	0.0968		mg/L		97	80 - 120

Lab Sample ID: LCS 500-751964/2-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.935		mg/L		93	80 - 120

Lab Sample ID: 500-245277-1 MS
Matrix: Water
Analysis Batch: 752304

Client Sample ID: HEN_21R_MS
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.024	B	0.100	0.113		mg/L		89	75 - 125
Barium	0.32		0.500	0.837		mg/L		104	75 - 125
Beryllium	<0.0010		0.0500	0.0376		mg/L		75	75 - 125
Cadmium	0.00019	J	0.0500	0.0529		mg/L		106	75 - 125
Calcium	130		10.0	134	4	mg/L		47	75 - 125
Chromium	0.0049	J	0.200	0.183		mg/L		89	75 - 125
Cobalt	0.0022		0.500	0.497		mg/L		99	75 - 125
Lead	0.0041		0.100	0.102		mg/L		98	75 - 125
Magnesium	40	B	10.0	49.0		mg/L		91	75 - 125
Molybdenum	0.010		1.00	0.976		mg/L		97	75 - 125
Potassium	3.2		10.0	13.5		mg/L		103	75 - 125
Sodium	54	B	10.0	58.8	4	mg/L		51	75 - 125
Thallium	<0.0020		0.100	0.0951		mg/L		95	75 - 125

QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

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

Lab Sample ID: 500-245277-1 MS

Matrix: Water

Analysis Batch: 752646

Client Sample ID: HEN_21R_MS

Prep Type: Total Recoverable

Prep Batch: 751964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030	^1+	0.500	0.505	^1+	mg/L		101	75 - 125
Selenium	<0.0025		0.100	0.0966		mg/L		97	75 - 125

Lab Sample ID: 500-245277-1 MS

Matrix: Water

Analysis Batch: 752984

Client Sample ID: HEN_21R_MS

Prep Type: Total Recoverable

Prep Batch: 751964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.9	F1	1.00	2.59	F1	mg/L		67	75 - 125

Lab Sample ID: 500-245277-1 MSD

Matrix: Water

Analysis Batch: 752304

Client Sample ID: HEN_21R_MSD

Prep Type: Total Recoverable

Prep Batch: 751964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.024	B	0.100	0.114		mg/L		90	75 - 125	1	20
Barium	0.32		0.500	0.832		mg/L		103	75 - 125	1	20
Beryllium	<0.0010		0.0500	0.0432		mg/L		86	75 - 125	14	20
Cadmium	0.00019	J	0.0500	0.0515		mg/L		103	75 - 125	3	20
Calcium	130		10.0	131	4	mg/L		16	75 - 125	2	20
Chromium	0.0049	J	0.200	0.184		mg/L		90	75 - 125	1	20
Cobalt	0.0022		0.500	0.487		mg/L		97	75 - 125	2	20
Lead	0.0041		0.100	0.101		mg/L		97	75 - 125	1	20
Magnesium	40	B	10.0	48.6		mg/L		86	75 - 125	1	20
Molybdenum	0.010		1.00	0.962		mg/L		95	75 - 125	1	20
Potassium	3.2		10.0	13.2		mg/L		100	75 - 125	2	20
Sodium	54	B	10.0	59.1	4	mg/L		54	75 - 125	0	20
Thallium	<0.0020		0.100	0.0953		mg/L		95	75 - 125	0	20

Lab Sample ID: 500-245277-1 MSD

Matrix: Water

Analysis Batch: 752646

Client Sample ID: HEN_21R_MSD

Prep Type: Total Recoverable

Prep Batch: 751964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030	^1+	0.500	0.513	^1+	mg/L		103	75 - 125	2	20
Selenium	<0.0025		0.100	0.0980		mg/L		98	75 - 125	1	20

Lab Sample ID: 500-245277-1 MSD

Matrix: Water

Analysis Batch: 752984

Client Sample ID: HEN_21R_MSD

Prep Type: Total Recoverable

Prep Batch: 751964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.9	F1	1.00	2.75		mg/L		83	75 - 125	6	20

Lab Sample ID: 500-245277-1 DU

Matrix: Water

Analysis Batch: 752304

Client Sample ID: HEN_21R

Prep Type: Total Recoverable

Prep Batch: 751964

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.024	B	0.0253		mg/L		3	20

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QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

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

Lab Sample ID: 500-245277-1 DU
Matrix: Water
Analysis Batch: 752304

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Barium	0.32		0.321		mg/L		2	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	0.00019	J	0.000190	J	mg/L		2	20
Calcium	130		133		mg/L		3	20
Chromium	0.0049	J	0.00506		mg/L		3	20
Cobalt	0.0022		0.00210		mg/L		5	20
Lead	0.0041		0.00407		mg/L		0.6	20
Magnesium	40	B	41.1		mg/L		3	20
Molybdenum	0.010		0.00953		mg/L		7	20
Potassium	3.2		3.36		mg/L		3	20
Sodium	54	B	55.5		mg/L		3	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-245277-1 DU
Matrix: Water
Analysis Batch: 752646

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0030	^1+	<0.0030	^1+	mg/L		NC	20
Selenium	<0.0025		<0.0025		mg/L		NC	20

Lab Sample ID: 500-245277-1 DU
Matrix: Water
Analysis Batch: 752984

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Boron	1.9	F1	1.98		mg/L		3	20

Lab Sample ID: MB 500-752046/1-A
Matrix: Water
Analysis Batch: 752468

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010	0.00023	mg/L		01/30/24 17:00	02/01/24 15:50	1
Barium	<0.0025		0.0025	0.00073	mg/L		01/30/24 17:00	02/01/24 15:50	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 17:00	02/01/24 15:50	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 17:00	02/01/24 15:50	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 17:00	02/01/24 15:50	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 17:00	02/01/24 15:50	1
Magnesium	<0.20		0.20	0.049	mg/L		01/30/24 17:00	02/01/24 15:50	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		01/30/24 17:00	02/01/24 15:50	1
Potassium	<0.50		0.50	0.11	mg/L		01/30/24 17:00	02/01/24 15:50	1
Sodium	<0.20		0.20	0.077	mg/L		01/30/24 17:00	02/01/24 15:50	1

Lab Sample ID: MB 500-752046/1-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 17:00	02/06/24 17:37	1

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QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

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

Lab Sample ID: MB 500-752046/1-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 17:00	02/06/24 17:37	1
Boron	<0.050		0.050	0.013	mg/L		01/30/24 17:00	02/06/24 17:37	1
Calcium	<0.20		0.20	0.044	mg/L		01/30/24 17:00	02/06/24 17:37	1
Selenium	<0.0025	^1+	0.0025	0.00098	mg/L		01/30/24 17:00	02/06/24 17:37	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 17:00	02/06/24 17:37	1

Lab Sample ID: LCS 500-752046/2-A
Matrix: Water
Analysis Batch: 752468

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0944		mg/L		94	80 - 120
Barium	0.500	0.488		mg/L		98	80 - 120
Cadmium	0.0500	0.0499		mg/L		100	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.476		mg/L		95	80 - 120
Lead	0.100	0.0922		mg/L		92	80 - 120
Magnesium	10.0	9.19		mg/L		92	80 - 120
Molybdenum	1.00	0.951		mg/L		95	80 - 120
Potassium	10.0	9.23		mg/L		92	80 - 120
Sodium	10.0	9.20		mg/L		92	80 - 120

Lab Sample ID: LCS 500-752046/2-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.534	^1+	mg/L		107	80 - 120
Beryllium	0.0500	0.0502		mg/L		100	80 - 120
Boron	1.00	0.944		mg/L		94	80 - 120
Calcium	10.0	8.60		mg/L		86	80 - 120
Selenium	0.100	0.102	^1+	mg/L		102	80 - 120
Thallium	0.100	0.0962		mg/L		96	80 - 120

Lab Sample ID: MB 500-752130/1-A
Matrix: Water
Analysis Batch: 752468

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010	0.00023	mg/L		01/31/24 08:07	02/01/24 17:31	1
Barium	<0.0025		0.0025	0.00073	mg/L		01/31/24 08:07	02/01/24 17:31	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/31/24 08:07	02/01/24 17:31	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/31/24 08:07	02/01/24 17:31	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/31/24 08:07	02/01/24 17:31	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/31/24 08:07	02/01/24 17:31	1
Magnesium	<0.20		0.20	0.049	mg/L		01/31/24 08:07	02/01/24 17:31	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		01/31/24 08:07	02/01/24 17:31	1
Potassium	<0.50		0.50	0.11	mg/L		01/31/24 08:07	02/01/24 17:31	1
Sodium	0.169	J	0.20	0.077	mg/L		01/31/24 08:07	02/01/24 17:31	1

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QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

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

Lab Sample ID: MB 500-752130/1-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/31/24 08:07	02/06/24 18:39	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/31/24 08:07	02/06/24 18:39	1
Boron	0.0176	J	0.050	0.013	mg/L		01/31/24 08:07	02/06/24 18:39	1
Calcium	<0.20		0.20	0.044	mg/L		01/31/24 08:07	02/06/24 18:39	1
Selenium	<0.0025	^1+	0.0025	0.00098	mg/L		01/31/24 08:07	02/06/24 18:39	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/31/24 08:07	02/06/24 18:39	1

Lab Sample ID: LCS 500-752130/2-A
Matrix: Water
Analysis Batch: 752468

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0996		mg/L		100	80 - 120
Barium	0.500	0.465		mg/L		93	80 - 120
Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.473		mg/L		95	80 - 120
Lead	0.100	0.0893		mg/L		89	80 - 120
Magnesium	10.0	8.80		mg/L		88	80 - 120
Molybdenum	1.00	0.936		mg/L		94	80 - 120
Potassium	10.0	9.01		mg/L		90	80 - 120
Sodium	10.0	8.92		mg/L		89	80 - 120

Lab Sample ID: LCS 500-752130/2-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.522	^1+	mg/L		104	80 - 120
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Boron	1.00	0.914		mg/L		91	80 - 120
Calcium	10.0	8.33		mg/L		83	80 - 120
Selenium	0.100	0.100	^1+	mg/L		100	80 - 120
Thallium	0.100	0.0966		mg/L		97	80 - 120

Lab Sample ID: 500-245277-9 MS
Matrix: Water
Analysis Batch: 752468

Client Sample ID: HEN_49_MS
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.00099	J	0.100	0.106		mg/L		105	75 - 125
Barium	0.066		0.500	0.551		mg/L		97	75 - 125
Cadmium	0.0014		0.0500	0.0536		mg/L		104	75 - 125
Chromium	0.0022	J	0.200	0.197		mg/L		98	75 - 125
Cobalt	0.0041		0.500	0.458		mg/L		91	75 - 125
Lead	0.0015		0.100	0.0909		mg/L		89	75 - 125
Magnesium	30		10.0	39.0		mg/L		85	75 - 125
Molybdenum	0.025		1.00	0.989		mg/L		96	75 - 125
Potassium	11		10.0	20.2		mg/L		90	75 - 125

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QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

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

Lab Sample ID: 500-245277-9 MS
Matrix: Water
Analysis Batch: 752984

Client Sample ID: HEN_49_MS
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030	^1+	0.500	0.559	^1+	mg/L		112	75 - 125
Beryllium	<0.0010		0.0500	0.0528		mg/L		106	75 - 125
Boron	0.70	B	1.00	1.65		mg/L		95	75 - 125
Calcium	110		10.0	121	4	mg/L		69	75 - 125
Selenium	<0.0025	^1+	0.100	0.105	^1+	mg/L		105	75 - 125
Sodium	61		10.0	70.7	4	mg/L		94	75 - 125
Thallium	<0.0020		0.100	0.0991		mg/L		99	75 - 125

Lab Sample ID: 500-245277-9 MSD
Matrix: Water
Analysis Batch: 752468

Client Sample ID: HEN_49_MSD
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.00099	J	0.100	0.107		mg/L		106	75 - 125	1	20
Barium	0.066		0.500	0.556		mg/L		98	75 - 125	1	20
Cadmium	0.0014		0.0500	0.0543		mg/L		106	75 - 125	1	20
Chromium	0.0022	J	0.200	0.201		mg/L		99	75 - 125	2	20
Cobalt	0.0041		0.500	0.469		mg/L		93	75 - 125	2	20
Lead	0.0015		0.100	0.0936		mg/L		92	75 - 125	3	20
Magnesium	30		10.0	38.6		mg/L		82	75 - 125	1	20
Molybdenum	0.025		1.00	1.00		mg/L		98	75 - 125	1	20
Potassium	11		10.0	20.2		mg/L		89	75 - 125	0	20

Lab Sample ID: 500-245277-9 MSD
Matrix: Water
Analysis Batch: 752984

Client Sample ID: HEN_49_MSD
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030	^1+	0.500	0.559	^1+	mg/L		112	75 - 125	0	20
Beryllium	<0.0010		0.0500	0.0487		mg/L		97	75 - 125	8	20
Boron	0.70	B	1.00	1.67		mg/L		97	75 - 125	1	20
Calcium	110		10.0	119	4	mg/L		49	75 - 125	2	20
Selenium	<0.0025	^1+	0.100	0.107	^1+	mg/L		107	75 - 125	2	20
Sodium	61		10.0	69.9	4	mg/L		87	75 - 125	1	20
Thallium	<0.0020		0.100	0.0989		mg/L		99	75 - 125	0	20

Lab Sample ID: 500-245277-9 DU
Matrix: Water
Analysis Batch: 752468

Client Sample ID: HEN_49
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.00099	J	0.000990	J	mg/L		0.1	20
Barium	0.066		0.0683		mg/L		3	20
Cadmium	0.0014		0.00155		mg/L		9	20
Chromium	0.0022	J	0.00232	J	mg/L		5	20
Cobalt	0.0041		0.00409		mg/L		0.6	20
Lead	0.0015		0.00153		mg/L		0.9	20
Magnesium	30		30.7		mg/L		0.8	20
Molybdenum	0.025		0.0244		mg/L		1	20

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QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

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

Lab Sample ID: 500-245277-9 DU
Matrix: Water
Analysis Batch: 752468

Client Sample ID: HEN_49
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Potassium	11		11.5		mg/L		2	20

Lab Sample ID: 500-245277-9 DU
Matrix: Water
Analysis Batch: 752984

Client Sample ID: HEN_49
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0030	^1+	<0.0030	^1+	mg/L		NC	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	0.70	B	0.687		mg/L		1	20
Calcium	110		115		mg/L		0.9	20
Selenium	<0.0025	^1+	<0.0025	^1+	mg/L		NC	20
Sodium	61		61.7		mg/L		0.7	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-752474/12-A
Matrix: Water
Analysis Batch: 752687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 752474

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 08:15	1

Lab Sample ID: LCS 500-752474/13-A
Matrix: Water
Analysis Batch: 752687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 752474

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

Lab Sample ID: 500-245277-1 MS
Matrix: Water
Analysis Batch: 752687

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA
Prep Batch: 752474

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000990		mg/L		99	75 - 125

Lab Sample ID: 500-245277-1 MSD
Matrix: Water
Analysis Batch: 752687

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA
Prep Batch: 752474

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.000934		mg/L		93	75 - 125	6	20

QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

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

Lab Sample ID: 500-245277-9 MS
Matrix: Water
Analysis Batch: 752687

Client Sample ID: HEN_49_MS
Prep Type: Total/NA
Prep Batch: 752474

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00050		0.00100	0.00101		mg/L		101	75 - 125

Lab Sample ID: 500-245277-9 MSD
Matrix: Water
Analysis Batch: 752687

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
Prep Batch: 752474

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00050		0.00100	0.000984		mg/L		98	75 - 125	3	20

Lab Sample ID: 500-245277-1 DU
Matrix: Water
Analysis Batch: 752687

Client Sample ID: HEN_21R
Prep Type: Total/NA
Prep Batch: 752474

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Lab Sample ID: 500-245277-9 DU
Matrix: Water
Analysis Batch: 752687

Client Sample ID: HEN_49
Prep Type: Total/NA
Prep Batch: 752474

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00050		<0.00050		mg/L		NC	20

Lab Sample ID: MB 500-752693/12-A
Matrix: Water
Analysis Batch: 752861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 752693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 08:36	1

Lab Sample ID: LCS 500-752693/13-A
Matrix: Water
Analysis Batch: 752861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 752693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00224		mg/L		112	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-752102/3
Matrix: Water
Analysis Batch: 752102

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			01/31/24 08:50	1
Sulfate	<1.0		1.0	0.21	mg/L			01/31/24 08:50	1

QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-752102/4
Matrix: Water
Analysis Batch: 752102

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	21.2		mg/L		106	90 - 110
Sulfate	20.0	20.9		mg/L		105	90 - 110

Lab Sample ID: MB 500-752222/3
Matrix: Water
Analysis Batch: 752222

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			01/31/24 16:55	1
Sulfate	<1.0		1.0	0.21	mg/L			01/31/24 16:55	1

Lab Sample ID: LCS 500-752222/4
Matrix: Water
Analysis Batch: 752222

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	21.2		mg/L		106	90 - 110
Sulfate	20.0	21.2		mg/L		106	90 - 110

Lab Sample ID: 500-245277-1 MS
Matrix: Water
Analysis Batch: 752222

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	97		50.0	150		mg/L		106	80 - 120
Sulfate	94		50.0	144		mg/L		101	80 - 120

Lab Sample ID: 500-245277-1 MSD
Matrix: Water
Analysis Batch: 752222

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	97		50.0	150		mg/L		105	80 - 120	0	20
Sulfate	94		50.0	143		mg/L		99	80 - 120	0	20

Lab Sample ID: MB 500-752307/3
Matrix: Water
Analysis Batch: 752307

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.140	J	1.0	0.12	mg/L			02/01/24 11:00	1
Sulfate	<1.0		1.0	0.21	mg/L			02/01/24 11:00	1

Lab Sample ID: LCS 500-752307/4
Matrix: Water
Analysis Batch: 752307

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	21.8		mg/L		109	90 - 110
Sulfate	20.0	20.9		mg/L		105	90 - 110

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QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 500-245277-9 MS

Matrix: Water

Analysis Batch: 752307

Client Sample ID: HEN_49_MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	B	50.0	156		mg/L		104	80 - 120
Sulfate	81		50.0	131		mg/L		100	80 - 120

Lab Sample ID: 500-245277-9 MSD

Matrix: Water

Analysis Batch: 752307

Client Sample ID: HEN_49_MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	B	50.0	158		mg/L		109	80 - 120	2	20
Sulfate	81		50.0	132		mg/L		101	80 - 120	0	20

Lab Sample ID: MB 500-752534/3

Matrix: Water

Analysis Batch: 752534

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			02/03/24 11:20	1
Sulfate	<1.0		1.0	0.21	mg/L			02/03/24 11:20	1

Lab Sample ID: LCS 500-752534/4

Matrix: Water

Analysis Batch: 752534

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.2		mg/L		101	90 - 110
Sulfate	20.0	19.9		mg/L		99	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-751763/28

Matrix: Water

Analysis Batch: 751763

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			01/26/24 20:23	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			01/26/24 20:23	1

Lab Sample ID: LCS 500-751763/29

Matrix: Water

Analysis Batch: 751763

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	107		mg/L		107	90 - 110

Lab Sample ID: MB 500-753214/3

Matrix: Water

Analysis Batch: 753214

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	13.6		5.0	3.7	mg/L			02/02/24 09:56	1

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QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-5
SDG: HEN_845_804

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 500-753214/3
Matrix: Water
Analysis Batch: 753214

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 CaCO ₃	<5.0		5.0	3.7	mg/L			02/02/24 09:56	1

Lab Sample ID: LCS 500-753214/4
Matrix: Water
Analysis Batch: 753214

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	109		mg/L		109	90 - 110

Lab Sample ID: MB 500-753401/53
Matrix: Water
Analysis Batch: 753401

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 CaCO ₃	6.31		5.0	3.7	mg/L			02/08/24 17:42	1
Carbonate Alkalinity as CaCO ₃	<5.0		5.0	3.7	mg/L			02/08/24 17:42	1

Lab Sample ID: LCS 500-753401/29
Matrix: Water
Analysis Batch: 753401

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	109		mg/L		109	90 - 110

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

Lab Sample ID: MB 500-751341/1
Matrix: Water
Analysis Batch: 751341

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			01/24/24 21:37	1

Lab Sample ID: LCS 500-751341/2
Matrix: Water
Analysis Batch: 751341

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	264		mg/L		106	80 - 120

Lab Sample ID: 500-245277-1 MS
Matrix: Water
Analysis Batch: 751341

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	660		250	880		mg/L		87	75 - 125

QC Sample Results

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

ATTACHMENT B.
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

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

Lab Sample ID: 500-245277-1 MSD
Matrix: Water
Analysis Batch: 751341

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	660		250	874		mg/L		85	75 - 125	1	20

Lab Sample ID: MB 500-751342/1
Matrix: Water
Analysis Batch: 751342

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			01/25/24 00:24	1

Lab Sample ID: LCS 500-751342/2
Matrix: Water
Analysis Batch: 751342

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	246		mg/L		98	80 - 120

Lab Sample ID: 500-245277-9 MS
Matrix: Water
Analysis Batch: 751342

Client Sample ID: HEN_49_MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	620		250	846		mg/L		91	75 - 125

Lab Sample ID: 500-245277-9 MSD
Matrix: Water
Analysis Batch: 751342

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	620		250	824		mg/L		82	75 - 125	3	20

Lab Sample ID: 500-245277-10 DU
Matrix: Water
Analysis Batch: 751342

Client Sample ID: HEN_50
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	610		604		mg/L		0.7	5

Lab Sample ID: MB 500-751719/1
Matrix: Water
Analysis Batch: 751719

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			01/29/24 01:47	1

Lab Sample ID: LCS 500-751719/2
Matrix: Water
Analysis Batch: 751719

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	248		mg/L		99	80 - 120

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QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

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

Lab Sample ID: MB 500-751720/1
Matrix: Water
Analysis Batch: 751720

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			01/29/24 02:54	1

Lab Sample ID: LCS 500-751720/2
Matrix: Water
Analysis Batch: 751720

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

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

Lab Sample ID: 500-245277-21 MS
Matrix: Water
Analysis Batch: 751720

Client Sample ID: HEN_51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	640		250	870		mg/L		92	75 - 125

Lab Sample ID: 500-245277-21 DU
Matrix: Water
Analysis Batch: 751720

Client Sample ID: HEN_51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	640		660		mg/L		3	5

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-752321/3
Matrix: Water
Analysis Batch: 752321

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			01/31/24 11:34	1

Lab Sample ID: LCS 500-752321/4
Matrix: Water
Analysis Batch: 752321

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	9.91		mg/L		99	90 - 119

Lab Sample ID: 500-245277-1 MS
Matrix: Water
Analysis Batch: 752321

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.13		5.00	4.95		mg/L		96	75 - 125

QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-5
SDG: HEN_845_804

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 500-245277-1 MSD
Matrix: Water
Analysis Batch: 752321

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.13		5.00	4.92		mg/L		96	75 - 125	1	20

Lab Sample ID: MB 500-753484/3
Matrix: Water
Analysis Batch: 753484

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			02/09/24 10:43	1

Lab Sample ID: LCS 500-753484/4
Matrix: Water
Analysis Batch: 753484

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	9.96		mg/L		100	90 - 119

Lab Sample ID: 500-245277-9 MS
Matrix: Water
Analysis Batch: 753484

Client Sample ID: HEN_49_MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.15		5.00	4.94		mg/L		96	75 - 125

Lab Sample ID: 500-245277-9 MSD
Matrix: Water
Analysis Batch: 753484

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.15		5.00	4.96		mg/L		96	75 - 125	0	20

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_21R

Date Collected: 01/23/24 12:40

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 13:43
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 20:08
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 14:00
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 15:02
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 ¹
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 08:30
Total/NA	Analysis	300.0		5	752222	W1T	EET CHI	01/31/24 18:26
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 17:45
Total/NA	Analysis	SM 2540C		1	751341	CLB	EET CHI	01/24/24 22:31
Total/NA	Analysis	SM 4500 F C		1	752321	SO	EET CHI	01/31/24 12:37
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/23/24 12:40

Client Sample ID: HEN_22

Date Collected: 01/23/24 15:20

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 14:12
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 20:25
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 14:20
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		10	752984	RN	EET CHI	02/06/24 15:34
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 ¹
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 08:51
Total/NA	Analysis	300.0		5	752222	W1T	EET CHI	01/31/24 19:12
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 17:55
Total/NA	Analysis	SM 2540C		1	751342	CLB	EET CHI	01/25/24 00:44
Total/NA	Analysis	SM 4500 F C		1	752321	SO	EET CHI	01/31/24 12:51
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/23/24 15:20

Client Sample ID: HEN_22&D

Date Collected: 01/23/24 15:00

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 14:16

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Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_22&D

Date Collected: 01/23/24 15:00

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 20:29
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 14:39
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 ¹
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 08:53
Total/NA	Analysis	300.0		5	752222	W1T	EET CHI	01/31/24 19:27
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 18:04
Total/NA	Analysis	SM 2540C		1	751342	CLB	EET CHI	01/25/24 00:47
Total/NA	Analysis	SM 4500 F C		1	752321	SO	EET CHI	01/31/24 12:56
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/23/24 15:00

Client Sample ID: HEN_27

Date Collected: 01/23/24 10:45

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 14:20
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 20:32
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 14:43
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 ¹
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 08:56
Total/NA	Analysis	300.0		5	752222	W1T	EET CHI	01/31/24 19:42
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 18:16
Total/NA	Analysis	SM 2540C		1	751342	CLB	EET CHI	01/25/24 00:49
Total/NA	Analysis	SM 4500 F C		1	752321	SO	EET CHI	01/31/24 13:01
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/23/24 10:45

Client Sample ID: HEN_32

Date Collected: 01/23/24 09:30

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 14:24
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 20:43
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 14:50
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 ¹
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 08:58

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Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_32

Date Collected: 01/23/24 09:30

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	752222	W1T	EET CHI	01/31/24 19:57
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 18:26
Total/NA	Analysis	SM 2540C		1	751342	CLB	EET CHI	01/25/24 00:52
Total/NA	Analysis	SM 4500 F C		1	752321	SO	EET CHI	01/31/24 13:07
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/23/24 09:30

Client Sample ID: HEN_34

Date Collected: 01/23/24 11:50

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 14:28
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 20:46
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 14:54
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 ¹
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 09:00
Total/NA	Analysis	300.0		1	752102	NMB	EET CHI	01/31/24 14:23
Total/NA	Analysis	300.0		5	752222	W1T	EET CHI	01/31/24 20:12
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 18:35
Total/NA	Analysis	SM 2540C		1	751342	CLB	EET CHI	01/25/24 00:55
Total/NA	Analysis	SM 4500 F C		1	752321	SO	EET CHI	01/31/24 13:12
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/23/24 11:50

Client Sample ID: HEN_35

Date Collected: 01/23/24 13:40

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 14:32
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 20:49
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 14:58
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 ¹
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 09:02
Total/NA	Analysis	300.0		1	752102	NMB	EET CHI	01/31/24 14:38
Total/NA	Analysis	300.0		10	752222	W1T	EET CHI	01/31/24 20:28
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 18:45
Total/NA	Analysis	SM 2540C		1	751342	CLB	EET CHI	01/25/24 00:57

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Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_35

Date Collected: 01/23/24 13:40

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-7

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	752321	SO	EET CHI	01/31/24 13:17
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/23/24 13:40

Client Sample ID: HEN_35_FD

Date Collected: 01/23/24 13:40

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 14:37
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 20:53
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 15:06
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 ¹
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 09:04
Total/NA	Analysis	300.0		1	752102	NMB	EET CHI	01/31/24 15:24
Total/NA	Analysis	300.0		10	752222	W1T	EET CHI	01/31/24 20:43
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 18:55
Total/NA	Analysis	SM 2540C		1	751342	CLB	EET CHI	01/25/24 01:00
Total/NA	Analysis	SM 4500 F C		1	752321	SO	EET CHI	01/31/24 13:21
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/23/24 13:40

Client Sample ID: HEN_49

Date Collected: 01/23/24 16:10

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 14:41
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 ¹
Total Recoverable	Analysis	6020B		1	752468	RN	EET CHI	02/01/24 17:38
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 ¹
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 18:43
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 ¹
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 09:06
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 11:32
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 19:04
Total/NA	Analysis	SM 2540C		1	751342	CLB	EET CHI	01/25/24 01:02
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 10:54
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/23/24 16:10

Eurofins Chicago

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_50

Date Collected: 01/23/24 16:10

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 15:09
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 20:56
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 15:14
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 ¹
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 09:19
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 12:18
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 19:14
Total/NA	Analysis	SM 2540C		1	751342	CLB	EET CHI	01/25/24 01:10
Total/NA	Analysis	SM 4500 F C		1	752321	SO	EET CHI	01/31/24 13:36
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/23/24 16:10

Client Sample ID: HEN_23

Date Collected: 01/24/24 08:35

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 15:42
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 21:24
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 16:18
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 ¹
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 08:42
Total/NA	Analysis	300.0		20	752534	W1T	EET CHI	02/03/24 12:51
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 14:55
Total/NA	Analysis	SM 2320B		1	753214	SO	EET CHI	02/02/24 10:29
Total/NA	Analysis	SM 2540C		1	751719	CLB	EET CHI	01/29/24 02:41
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 11:39
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/24/24 08:35

Client Sample ID: HEN_51

Date Collected: 01/24/24 09:00

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			751596	BDE	EET CHI	01/26/24 08:57 - 01/26/24 13:57 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	751952	SJ	EET CHI	01/29/24 15:23
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 21:34

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Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-5
SDG: HEN_845_804

Client Sample ID: HEN_51

Date Collected: 01/24/24 09:00

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 16:32
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 ¹
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 08:48
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 15:42
Total/NA	Analysis	SM 2320B		1	753214	SO	EET CHI	02/02/24 10:56
Total/NA	Analysis	SM 2540C		1	751720	CLB	EET CHI	01/29/24 02:59
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 11:53
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/24/24 09:00

Client Sample ID: HEN_FB

Date Collected: 01/24/24 16:10

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			751596	BDE	EET CHI	01/26/24 08:57 - 01/26/24 13:57 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	751952	SJ	EET CHI	01/29/24 15:40
Total Recoverable	Prep	3005A			752046	MC	EET CHI	01/30/24 17:00 - 01/30/24 23:00 ¹
Total Recoverable	Analysis	6020B		1	752468	RN	EET CHI	02/01/24 16:20
Total Recoverable	Prep	3005A			752046	MC	EET CHI	01/30/24 17:00 - 01/30/24 23:00 ¹
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 17:44
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 ¹
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 09:01
Total/NA	Analysis	300.0		5	752534	W1T	EET CHI	02/03/24 13:36
Total/NA	Analysis	SM 2320B		1	753401	SO	EET CHI	02/08/24 17:38
Total/NA	Analysis	SM 2540C		1	751720	CLB	EET CHI	01/29/24 03:17
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 12:11

Client Sample ID: HEN_YSG_ILRIVER

Date Collected: 01/22/24 14:20

Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-50

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	753107	DN	EET CHI	01/22/24 14:20

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

Laboratory References:

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

Accreditation/Certification Summary

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

ATTACHMENT B.
Q15 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 590-245277-5
SDG: HEN_845_804

Laboratory: Eurofins Chicago

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

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

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

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		HENNEPIN COUNTY ENVIRONMENTAL SERVICES Page: 2 HEN-845-804																					
Company: Vistra Corp-Hennepin		Report To: Brian Voelker		Attention: Dave McCoy		<table border="1"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> <tr> <td>Site Location</td> <td>IL</td> <td></td> </tr> <tr> <td colspan="2">Requested Due Date/TAT: 10 day</td> <td colspan="2">Project Number: 50022619</td> <td colspan="2">Project Profile #:</td> <td colspan="2">STATE:</td> </tr> </table>		REGULATORY AGENCY			NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER	Site Location	IL		Requested Due Date/TAT: 10 day		Project Number: 50022619		Project Profile #:		STATE:	
REGULATORY AGENCY																											
NPDES	GROUND WATER	DRINKING WATER																									
UST	RCRA	OTHER																									
Site Location	IL																										
Requested Due Date/TAT: 10 day		Project Number: 50022619		Project Profile #:		STATE:																					
Address: 13498 E 800th St		Copy To: Jason Stuckey Jason.Stuckey@visracorp.com Sam Davies samantha.davies@visracorp.com		Company Name: A3 Environmental																							
Hennepin, IL 61327				Address: 3030 Warrenville Rd , Suite 418																							
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.		Warrenville, IL 60532																							
Phone: (217) 753-8911	Fax:	Project Name:		Project Manager																							

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRAWING WATER DW WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I D		
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		HEN-257-801	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
3	HEN-22&D	WT G	1/23/24	1500	8	✓	✓								X			X		X	X	H									
	HEN-23														X			X		X	X	H									
	HEN-25														X							J		DTW ONLY							
	HEN-26														X							J		DTW ONLY							
4	HEN-27	WT G	1/23/24	1045	8	✓	✓								X			X		X	X	H									
	HEN-30														X							J		DTW ONLY							
	HEN-31														X							J		DTW ONLY							
5	HEN-32	WT G	1/23/24	0030	8	✓	✓								X			X		X	X	H									
	HEN-33														X							J		DTW ONLY							
6	HEN-34	WT G	1/23/24	1150	8	✓	✓								X			X		X	X	H									
7/8	HEN-35	WT G	1/23/24	1340	8	✓	✓								X			X		X	X	H		DUPE							
	HEN-36														X							J		DTW ONLY							
	HEN-40#S														X							E		SHORT HOLDS - NO2							
	HEN-45#S															X			X		X	B		SHORT HOLDS - NO2							
	HEN-46														X			X		X	G										
	HEN-47														X			X		X	G										
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																				
HEN-24Q1 Rev 2			Allison Beckett AZE.		1/24/24	0700	R.P. Ellison		1/24/24	1205																					
			R.J. Ellison		1/24/24	1224	R.J. Ellison		1/24/24	1220																					
SAMPLER NAME AND SIGNATURE										Temp in °C		Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples Intact (Y/N)															
PRINT Name of SAMPLER. Allison Beckett																															
SIGNATURE of SAMPLER. Beckett										DATE Signed (MM/DD/YYYY) 1/23/24																					

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information: Page 3 of 3

[illegible]

02/21/24

[illegible]

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
HEN-845-804

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-245277-5
SDG Number: HEN_845_804

Login Number: 245277

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1,3.2,2.3,3.9,5.2,5.1,4.4,4.1,3.3,2.6,2.7,4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

PROJECT INFORMATION

0 5 10 15 20 25

Nitric
acid. Hyd.
un.
SVH.

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION										
Site: Hennepin	Client: Vistra									
Project Number: 2024-0054	Task #: 1115									
Field Personnel: AB/LF	Finish Date: 1/25/24	Time: 1225								
WELL INFORMATION			EVENT TYPE							
Well ID: Hen-03R	Well Development	Low-Flow / Low Stress Sampling Other (Specify): Low Flow								
Transducer Serial #: 21615140	Well Volume Approach Sampling									
WATER QUALITY INDICATOR PARAMETERS (continued)										
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Purge	1115		35.85	3%	+1	3%	10%	10%	+10	1000
Purge	1120		35.85	15.0	7.34	878	1.56	16.74	66.8	
	1125		35.85	14.7	7.34	876	1.60	67.70	64.7	
	1130		35.85	14.4	7.33	876	1.51	31.53	58.8	
	1135		35.85	14.4	7.33	876	1.41	73.47	55.5	
	1140		35.89	14.6	7.33	877	1.39	16.80	50.0	
	1145		35.89	14.7	7.32	876	1.35	18.50	49.7	
	1150		35.89	15.1	7.32	877	1.29	12.46	49.1	
	1155		35.90	15.0	7.32	877	1.33	13.38	49.0	
	1200		35.90	15.0	7.31	877	1.26	11.98	47.3	
	1205		35.90	15.0	7.31	877	1.27	10.04	46.6	
	1210		35.91	15.0	7.31	877	1.28	8.97	46.5	
	1215	56AL	35.9	15.0	7.31	877	1.28	8.98	46.6	
NOTES (continued)										
Timed out at 1 hr. Sample at 1215										
Dupe Sample at 1225										

15 Bottles
15 Dupe Bottles
HAD to Run Pump at a Higher Pressure to Get Water to Pump, 125/150 PSI

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: 2024.0054 Start Date: 1/25/24 Time: 1430
Field Personnel: ABJ/F Finish Date: 1/25/24 Time: 1010

WELL INFORMATION

Well ID: HEN-051R Well Development: Well Volume Approach Sampling
Transducer Serial #: N/A

EVENT TYPE

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
0 purg	1440	0	41.00	41.00	3%	+1	852	0.88	10%	+10	clear
5 purg	1511	1	41.00	41.00	14.6	7.70	851	1.08	40.48	124.8	clear
15	1516	2	41.00	41.00	14.7	7.70	851	0.85	39.70	121.0	clear
20	1521	2	41.00	41.00	14.9	7.69	853	0.83	25.99	114.2	clear
25	1526		41.00	41.00	14.9	7.69	852	1.13	14.91	116.2	clear
30	1531		41.00	41.00	15.0	7.69	854	1.03	12.91	104.7	murky
35	1536		41.00	41.00	15.1	7.69	856	0.94	11.80	104.0	clear
40	1541	3.5	41.00	41.00	15.1	7.69	857	1.02	5.21	161.4	clear
45	1546		41.00	41.00	15.2	7.69	851	0.96	8.54	100.0	clear
50	1550		41.00	41.00	15.2	7.69			4.55	98.7	clear

NOTES (continued)

Sampled @ 1550

*bladder

pumped air into yst, but

11 bottles

still stabilized

* took 30 min to get water out of wen (use high pressure)

ABBREVIATIONS

Cond - Actual Conductivity
FI 810C - Feet Below Top of Casing 18 -
ORP - Oxidation-Reduction Potential SEC - Specific Electrical
Conductance SU - Standard Units

PROJECT INFORMATION

25 30 35 40 45 50 55 60

PROJECT INFORMATION											
Site:	Hennepin	Client:	Vistra								
Project Number:	Task #: 2024-0054	Start Date:	1/20/24	Time:	0800						
Field Personnel:	AB/LF	Finish Date:	1/20/24	Time:	0850						
WELL INFORMATION			EVENT TYPE								
Well ID:	HEN-07	Well Development	Low-Flow / Low Stress Sampling Other (Specify): Low Flow								
Transducer Serial #:	21015139	Well Volume Approach Sampling									
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (feet)	Drawdown (feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Visual Clarity
PRE	800	0	68.7		3%	+1					
PURGE	805		68.7		9.9	6.99	1025	4.66	2.37	+10	
	810		68.7		10.1	6.97	1037	4.40	3.97		
	815		68.7		10.1	6.97	1035	4.35	1.03		
	820		68.7		10.1	6.97	1034	4.35	1.07		
	825		68.7		10.1	6.97	1034	4.33	1.82		
	830		68.7		10.1	6.97	1029	4.33	3.26		
	835		68.7		10.0	6.97	1026	4.23	8.70		
	840		68.7		10.0	6.97	1027	4.30	6.80		
	845		68.7		10.0	6.97	1030	4.33	6.45		
	850		68.7		10.0	6.97	1026	4.30	5.90		
NOTES (continued)						ABBREVIATIONS					
sampled @ 0850						Cond - Actual Conductivity FT BTDC - Feet Below Top of Casing in " ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units					

5 bottles

PROJECT INFORMATION

sampled @ 0820

16 bottles

PROJECT INFORMATION											
Site:	Hennepin	Client:	Vistra	Task #:	2024.0054	Time: 12:15					
Project Number:		Start Date:	1/25/24	Finish Date:	1/25/24	Time: 1325					
Field Personnel:		AB/F									
WELL INFORMATION			EVENT TYPE								
Well ID: HEN-089D			Low-Flow / Low Stress Sampling Other (Specify): Low Flow								
Transducer Serial #: 21015598											
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Visual Clarity
PRE	1223	0	54.09		3%	+1	3%	10%	10%	+10	clear
Purge	1225		54.09		10.8	7.21	1799	9.32	5.04	104.6	"
	1230		54.09		11.9	6.77	2244	3.98	2.97	102.7	"
	1235	1	54.09		12.4	6.71	2363	4.94	5.01	95.0	"
	1240		54.09		12.4	6.70	2390	0.90	5.18	91.2	"
	1245		54.09		12.5	6.69	2396	0.72	5.06	89.4	"
	1250		54.09		12.4	6.69	2396	0.50	5.23	87.5	"
	1255		54.09		12.4	6.69	2393	0.51	5.04	86.8	"
	1300	2.5	54.09		12.5	6.69	2389	0.50	4.40	86.7	
NOTES (continued)			ABBREVIATIONS								
10 bottles			GPP - Gypsum Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units								
fair is being			GPP - Actual Conductivity FT BTCC - Feet Below Top of Casing na -								

hair is being pumped through yst from bladder, but still stabilized

Sampled @ 1305

Unpres.
Sulf. acid
Hyd. acid
Sod. Hyd
Nitric

PROJECT INFORMATION

WELL DEVELOPMENT I AND GROUNDWATER SAMPLING FIELD FORM											
PROJECT INFORMATION											
Site: Hennepin	Client: Vistra										
Project Number2024-0054	Task #:	Start Date: 6/24/24	Time: 1510								
Field Personnel: AB/LF	Finish Date: 6/24/24	Time: 1600									
WELL INFORMATION				EVENT TYPE							
Well ID: HEN-10	Well Development	Low-Flow / Low Stress Sampling Other (Specify) Low Flow									
Transducer Serial #: N/A	Well Volume Approach Sampling										
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Visual Clarity
PURGE 1510			50.71		3%	+1					
PURGE 1515			50.71		14.2	7.17	950	3.52	10%	+10	clear
1520			50.71		13.5	7.16	945	3.85	.55	179.6	
1525			50.71		13.8	7.15	945	4.01	.83	176.6	
1530			50.71		14.0	7.15	943	4.05	.83	172.7	
1535			50.71		14.1	7.15	944	3.97	.75	172.7	
1540			50.71		14.1	7.15	945	3.93	.69	176.2	
1545			50.71		14.3	7.16	944	3.93	.66	176.5	
1550			50.71		14.3	7.15	944	3.89	.59	176.9	
1555			50.71		14.3	7.15	945	3.82	.58	177.9	
1600			50.71	45.61	14.0	7.15	946	3.81	.56	178.0	
NOTES (continued)											
ABBREVIATIONS											
Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTDC - Feet Below Top of Casing na - Conductance SU - Standard Units											
Sample at 1600											

Sul/Acid
Nitric acid
Sodium Hydrox.
Sulfuric Acid
Hydrochloric Acid

Cond. - Ac	FT BTDC
Sampled @ 1155	hair being pumped through bladder, but still stabilized 13 bottles

Nitric
Sulfuric
Soda Hyd

PROJECT INFORMATION											
Site:	Hennepin	Client:	Vistra								
Project Number:	Task # 0054	Start Date:	1/24/24	Time:	12:10						
Field Personnel:	AB/LF	Finish Date:	1/24/24	Time:	1:30						
WELL INFORMATION				EVENT TYPE							
Well ID:	HEN-13	Well Development		Low-Flow / Low Stress Sampling Other (Specify): Low Flow							
Transducer Serial #: 21615515											
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. ($\mu\text{S}/\text{cm}$)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Visual Clarity
PCL	1213	0	51.29		3%	+1		10%	10%	+10	Clear
PVRG	1215		51.30	(4.7)	13.8	7.56	776	5.00	2.82	49.9	" "
	1220		51.30			7.41	786	2.78	2.17	43.7	" "
	1225	1	51.30		14.0	7.45	809	2.43	1.58	54.3	" "
	1230		51.30		14.2	7.47	834	0.99	3.78	44.9	" "
	1235		51.29		14.2	7.77	835	0.93	1.0	41.1	" "
	1240	2	51.29		14.3	7.47	838	0.89	0.99	37.2	" "
NOTES (continued)								ABBREVIATIONS			
Sampled @ 1241								Conc - Actual Conductivity			
								ORP - Oxidation-Reduction Potential SEC - Specific Electrical			
								FT BTCC - Feet Below Top of Casing no.			
								Conductance SU - Standard Units			

Sulfuric
Nitric
80d. Hyd.

[illegible]

12 bottles

PROJECT INFORMATION											
Site: Hennepin	Client: Vistra	Task #: 2024.0054	Start Date: 1/24/24	Time: 1110							
Project Number:	LF/AB	Finish Date: 1/24/24	Time: 1155								
Field Personnel:											
WELL INFORMATION				EVENT TYPE							
Well ID: Hen-17	Well Development	Low-Flow / Low Stress Sampling Other									
Casing ID: 21615500	Well Volume Approach Sampling	(Specify): Low Flow									
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (feet)	Drawdown (feet)	Temp. (°C)	pH (SU)	SEC or Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1110		58.90		3%	+1	3%	10%	10%	+10	1/200
Purge	1110		58.90		14.3	6.96	1107	3.09	5.76	127.9	
	1115		58.90		14.0	6.96	1114	3.02	2.41	128.7	
	1120		58.90		14.0	6.96	1111	2.92	2.30	179.1	
	1125		58.90		13.9	6.96	1112	2.94	1.69	131.2	
	1130		58.90		14.1	6.97	1109	2.97	3.17	133.5	
	1135		58.90		13.9	6.99	1091	3.56	2.34	135.6	
	1140		58.90		14.1	6.97	1107	3.41	2.17	139.2	
	1145		58.90		14.0	6.97	1110	3.38	2.46	141.3	
	1150		58.90		14.1	6.97	1109	3.34	2.48	142.8	
	1155	3.56	58.90		14.1	6.99	1110	3.32	2.49	142.7	
NOTES (continued)										ABBREVIATIONS	
Bladder Pump / Clear / No Color / No odor											
Condu - Actual Conductivity										ORP - Oxidation-Reduction Potential SEC - Specific Electrical	
FT BTCC - Feet Below Top of Casing in										Conductance SU - Standard Units	

Sample @ 1155 Air Bubbles in water Line & $\sqrt{ST}$

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Hennepin		Client: Vistra		Start Date: 1/25/24		Time: 1355		Finish Date: 1/25/24		Time: 1440	
Project Number: 2024-0037		Task #: AB/LF									
Field Personnel: AB/LF											
WELL INFORMATION				EVENT TYPE							
Well ID: HEN-18011P				Low-Flow / Low Stress Sampling Other (Specify): Low Flow							
Transducer Serial #: 21015009				Well Development Well Volume Approach Sampling							
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (feet)	Drawdown (feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1355		40.50		3%	+1	861	10%	10%	+10	
Purge	1355		40.50		13.6	7.29	861	1.22	25.28	36.6	
	1400		40.50		14.1	7.29	859	1.14	31.24	37.5	
	1405		40.53		14.2	7.29	861	1.07	35.00	35.4	
	1410		40.53		14.2	7.29	859	1.10	42.82	22.7	
	1415		40.53		14.1	7.30	859	1.10	30.29	4.1	
	1420		40.54		14.1	7.30	858	1.05	29.60	-14.7	
	1425		40.54		14.3	7.29	857	1.02	34.29	-14.0	
	1430		40.54		14.5	7.29	858	1.02	29.22	-12.6	
	1435		40.55		14.5	7.29	856	.97	28.40	-11.7	
	1440	3.56 gal	40.55		14.5	7.29	856	.95	28.20	-10.5	
NOTES (continued)											
Sample at 1440 15 BOTTLES											
ABBREVIATIONS											
Cond. - Actual Conductivity FT BLOC - Feet Below Top of Casing in - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units											

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PROJECT INFORMATION											
Site:	Hennepin	Client:	Vistra								
Project Number:	Task # 2024.0054	Start Date:	1/23/24	Time:	12:00						
Field Personnel:	AB/LF	Finish Date:	1/23/24	Time:	1305						
WELL INFORMATION			EVENT TYPE								
Well ID: HEN-ZIR			Low-Flow / Low Stress Sampling Other (Specify): Low Flow								
Transducer Serial #: 21615013			Well Development Well Volume Approach Sampling								
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Visual Clarity
PRE	1202		5.33		3%	+1	3%	10%	10%	+10	MURKY
	12015		5.39		11.1	7.59	112.1	1.82	170.10	-183.4	"
	1220	1.5	5.35		10.3	7.59	112.5	0.97	135.42	-180.4	"
	1225		5.3		10.2	7.59	112.2	1.26	131.83	-180.0	"
	1230		5.38		10.01	7.59	112.1	1.35	132.90	-178.7	"
	1235		5.38		10.01	7.59	112.1	1.38	130.21	-179.7	"
	1240										
NOTES (continued)											
Sampled @ 1240											
* Well/bladder may be damaged Sending air through											
ABBREVIATIONS											
COND - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units											
ORP - Oxidation-Reduction Potential SEC - Specific Electrical											

PROJECT INFORMATION											
Site:	Hennepin	Client:	Vistra								
Project Number:	2024-0054	Task #:		Start Date:	7/23/24	Time:	1:40				
Field Personnel:	AB/LF			Finish Date:	1/23/24	Time:	1:53				
WELL INFORMATION				EVENT TYPE							
Well ID:	HEN-22			Low-Flow / Low Stress Sampling Other (Specify): Low Flow							
Transducer Serial #:	21015497										
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
Purge	1440		17.95		3%	+1					
	1440		17.95		13.1	7.63	935	300	4.00	+10	Clear
	1445		17.95		13.8	7.64	936	0.34	5.58	77.2	
	1450		17.95		14.1	7.65	935	0.21	10.58	66.8	
	1455		17.95		14.0	7.66	935	0.16	8.80	57.9	
	1500		17.95		14.00	7.67	934	0.12	13.69	51.9	
	1505		17.95		14.2	7.66	933	0.10	20.74	46.5	
	1500		17.95		14.2	7.66	933	0.10	19.76	41.3	
	1515		17.95		14.1	7.66	935	0.10	19.94	37.4	
		36AL								36.3,	
NOTES (continued)								ABBREVIATIONS			
Cond - Actual Conductivity FT BTDC - Feet Below Top of Casing na - Conductance SU - Standard Units								ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units			

Sampled At 1520

PROJECT INFORMATION											
Site:	Hennepin	Client:	Vistra								
Project Number:	Task #: 2024-2054	Start Date:	1/23/24	Time:	1430						
Field Personnel:	AB/LF	Finish Date:	1/23/24	Time:	1430 1420						
WELL INFORMATION				EVENT TYPE							
Well ID: HEN-22&D				Low-Flow / Low Stress Sampling Other (Specify): Low Flow							
Transducer Serial #: 21504134											
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
PKE	14 30 30	0	1873		3%	+1	3%	10%	10%	+10	Clear
Purge	14305		1833		11.1	7.47	1047	1.89	13.23	-73.1	"
	1440		1880		12.8	7.37	1072	2.42	21.70	-101.6	"
	1445	1	1880		12.8	7.37	1086	1.43	19.08	-119.1	"
	1450		1880		12.9	7.37	1080	1.29	18.10	-124.3	"
	1455		1880		12.8	7.37	1085	1.23	17.47	-128.5	"
	1500	2.5	1880		12.0	7.38	1083	1.24	17.22	-129.8	"
NOTES (continued)				ABBREVIATIONS							
Sampled @ * bladder/pump is sending air into				Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical							
				FI BIOC - Feet Below Top of Casing m - Conductance SU - Standard Units							

PROJECT INFORMATION											
Site: <u>Hennepin</u>	Client: <u>Vistra</u>	Task #: <u>2024-0054</u>	Start Date: <u>1/24/24</u>	Time: <u>0750</u>							
Project Number: _____	Field Personnel: _____	AB/LF _____	Finish Date: <u>1/24/24</u>	Time: <u>0852</u>							
WELL INFORMATION					EVENT TYPE						
Well ID: <u>HEN-23</u>					Low-Flow / Low Stress Sampling Other (Specify): <u>Low Flow</u>						
Transducer Serial #: <u>21015000</u>					Well Development Well Volume Approach Sampling						
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Visual Clarity
<u>pre</u>	<u>0800</u>	<u>0</u>	<u>10.48</u>		<u>3%</u>	<u>+1</u>	<u>1152</u>	<u>10%</u>	<u>10%</u>	<u>+10</u>	<u>clear</u>
<u>large</u>	<u>0805</u>		<u>10.02</u>		<u>12.1</u>	<u>7.58</u>	<u>1152</u>	<u>1.57</u>	<u>16.0</u>	<u>-120.1</u>	<u>"</u>
	<u>0810</u>		<u>10.00</u>		<u>12.1</u>	<u>7.51</u>	<u>1150</u>	<u>0.22</u>	<u>5.93</u>	<u>-151.9</u>	<u>"</u>
	<u>0815</u>	<u>1.5</u>	<u>10.05</u>		<u>11.0</u>	<u>7.58</u>	<u>1145</u>	<u>0.14</u>	<u>4.79</u>	<u>-154.4</u>	<u>"</u>
	<u>0820</u>		<u>10.62</u>		<u>11.3</u>	<u>7.58</u>	<u>1138</u>	<u>0.13</u>	<u>4.47</u>	<u>-152.9</u>	<u>"</u>
	<u>0825</u>		<u>10.58</u>		<u>11.4</u>	<u>7.57</u>	<u>1134</u>	<u>0.11</u>	<u>5.02</u>	<u>-148.2</u>	<u>"</u>
	<u>0830</u>		<u>10.00</u>		<u>11.5</u>	<u>7.50</u>	<u>1133</u>	<u>0.12</u>	<u>4.09</u>	<u>-144.9</u>	<u>"</u>
	<u>0835</u>	<u>2.5</u>	<u>10.00</u>		<u>11.4</u>	<u>7.50</u>	<u>1134</u>	<u>0.11</u>	<u>0.25</u>	<u>-145.9</u>	<u>"</u>
NOTES (continued)										ABBREVIATIONS	
<u>Sampled @ 0835</u> <u>0835</u>										Cond. - Actual Conductivity	
										ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units	

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Hennepin		Client: Vistra		Start Date: 11/23/24		Time: 0945					
Project Number: 2024.005		Task #: ABJ.F		Finish Date: 11/23/24		Time:					
Field Personnel:											
WELL INFORMATION				EVENT TYPE							
Well ID: HEN-27				Low-Flow / Low Stress Sampling Other (Specify): Low Flow							
Transducer Serial #: 21015576				Well Development Well Volume Approach Sampling							
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0 PRE	0949	0	3.76		3%	+1	3%	10%	10%	+10	
5 PRE	0950		3.77		9.1	7.37	1059	1.50	12.58	71.8	Clear
10	0955	0.15	3.77		9.5	7.26	1079	0.15	10.19	13.0	
15	1000		3.77		9.7	7.25	1087	-0.17	10.90	-25.2	
20	1005		3.77		9.7	7.25	1088	-0.21	10.71	-24.2	
25	1010	1	3.77		9.9	7.25	1088	-0.26	10.75	-38.0	
30	1015		3.77		9.7	7.25	1088	-0.29	10.85	-45.5	
35	1020	1.5	3.77		9.7	7.25	1088	-0.30	10.37	-48.7	
40	1025		3.77		9.8	7.25	1088	-0.31	10.54	-52.4	
45	1030		3.77		9.8	7.25	1089	-0.32	10.42	-57.5	
50	1035	2.5	3.77		9.9	7.25	1088	-0.32	18.51	-11.2	
55	1040	2.5	3.77		9.8	7.25	1087	-0.33	18.22	-102.0	
60	1045	3	3.77		9.7	7.25	1089	-0.30	18.13	-105.4	
NOTES (continued)											
Sampled @ 1045 did not stabilize until last minute?											
ABBREVIATIONS											
Cond - Actual Conductivity F1B10C - Feet Below Top of Casing (ft) 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: 0023054 Task #: 2024.0054		Start Date: 1/23/24		Time: 0815						
Field Personnel: AB/LF		Finish Date: 1/23/24		Time: 0940						
WELL INFORMATION				EVENT TYPE						
Well ID: HEN-32				Low-Flow / Low Stress Sampling Other (Specify): Low Flow						
Transducer Serial #: 21015487				Well Development Well Volume Approach Sampling						
WATER QUALITY INDICATOR PARAMETERS (continued)										
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PRE	0840	0.15	4.50	10.5	7.19	1012	1.43	140.00	178.0	murky
PUT	0844		4.44	10.4	7.17	1011	0.08	87.20	170.7	murky
	0849	1	4.08	10.7	7.10	1000	0.33	72.78	172.0	
	0854		4.00	10.7	7.10	1001	0.07	54.83	145.9	
	0859	1.25	4.00	10.8	7.10	1002	0.01	47.03	103.0	
	0904		4.00	10.8	7.10	999	-0.04	37.19	159.8	
	0909	3	4.00	10.8	7.15	999	-0.05	30.09	158.3	
	0914		4.00	10.2	7.16	998	-0.03	29.80	153.0	
	0919		4.00	10.1	7.16	999	-0.08	30.01	157.5	
	0924		4.00	10.2	7.10	1001	-0.07	29.73	157.1	
	0929	4.5	4.00							
NOTES (continued)										
Sampled @ 0930										
ABBREVIATIONS										
Cond - Actual Conductivity PTBDC - Feet Below Top of Casing rd - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units										

PROJECT INFORMATION											
Site:	Hennepin	Client:	Vistra								
Project Number:	2024.0054	Task #:									
Field Personnel:	AB/LF	Start Date:	1/23/24	Time:	1115						
		Finish Date:	1/23/24	Time:	1200						
WELL INFORMATION			EVENT TYPE								
Well ID:	HEN-34	Well Development	Low-Flow / Low Stress Sampling Other (Specify): Low Flow								
Transducer Serial #:	21615509	Well Volume Approach Sampling									
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Visual Clarity
	1123		4.05		3%	+1	3%	10%	10%	+10	clear
PURGE	1125		4.05		10.0	7.10	1256	0.27	13.47	-110.8	"
	1130		4.05		10.2	7.09	1280	-0.11	11.27	-129.2	"
	1135	1	4.05		10.4	7.09	1293	-0.22	17.18	-138.2	"
	1140		4.05		10.4	7.09	1303	-0.27	12.17	-145.0	"
	1145		4.05		10.4	7.09	1303	-0.28	11.09	-146.2	"
	1150	2	4.05		10.5	7.09	1304	-0.27	12.45	-148.3	"
NOTES (continued)			ABBREVIATIONS								
Sampled @ 1150			Gen'l - Actual Conductivity FT BTDC - Feet Below Top of Casing na - Conductance SU - Standard Units								

0 5 10 15 20 25 30 35 40 45 50 55 60 65

PROJECT INFORMATION											
Site:	Hennepin	Client:	Vistra	Start Date:	1/23/24	Time:	1305				
Field Personnel:	AB/LF	Finish Date:	1/23/24	Time:	1357						
WELL INFORMATION				EVENT TYPE							
Well ID:	HEN-35			Low-Flow / Low Stress Sampling Other (Specify): Low Flow							
Transducer Serial #:	21U15510										
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
PURGE	1310	0	7.90		3%	+1	3%	10%	10%	+10	BLOWN OUT
	1315		7.90		11.3	7.13	796	0.54	39.42	40.8	"
	1320		7.91		11.3	7.11	806	0.08	13.75	30.1	"
	1325	1	7.92		11.4	7.11	818	-0.06	10.71	33.1	"
	1330		7.91		11.4	7.10	839	-0.13	7.49	30.7	"
	1335		7.90		11.4	7.10	842	-0.15	5.91	29.5	CLOUDY
	1340	2.5	7.92		11.5	7.10	856	-0.17	5.92	28.5	"
NOTES (continued)				ABBREVIATIONS							
				Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTDC - Feet Below Top of Casing ms - Conductance SU - Standard Units							

Sampled @ 1340

dupe

PROJECT INFORMATION

Sampled @ 14/15

11 bottles

Sulf. acid
Nit. acid
Soc. Hyd.

PROJECT INFORMATION											
Site:	Hennepin	Client:	Vistra								
Project Number:	Task # 2024-0054	Start Date:	1/25/24	Time:	1105						
Field Personnel:	AB/LF	Finish Date:	1/25/24	Time:	1205						
WELL INFORMATION				EVENT TYPE							
Well ID:	HENL-45#S			Low-Flow / Low Stress Sampling Other (Specify) Low Flow							
Transducer Serial #:	N/A										
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Depth to Water (Feet)	Volume Removed (gallons)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Visual Clarity
pre purge	1120	20.12	0		3%	+1	981	0.58	10%	+10	(cloudy)
	1125	20.12	0.5		18.0	7.36	977	0.16	124.15	14.1	"
	1130	20.12			17.4	7.23	970	0.02	97.25	8.5	"
	1135	20.12			17.0	7.20	976	0.02	51.25	2.4	"
	1140	20.12			17.7	7.20	977	0.02	38.93	1.6	"
	1145	20.12			17.7	7.19	976	0.02	38.92	0.1	"
					17.8	7.19	976	0.01	34.2	-0.1	"
NOTES (continued)				ABBREVIATIONS							
Sampled @ 1145				ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Dissolved Oxygen - Actual Conductivity FT BTCC - Feet Below Top of Casing mV - MilliVolts							

Samples @ 1145

15 bottles

Shewn on water in bucket

unp.
Hyd. acid
Sulf. acid
nitric acid
Sod. Hyd

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION										
Site: Hennepin		Client: Vistra								
Project Number: 2024.0854		Start Date: 1/24/24		Time: 12:25						
Field Personnel: AB/LF		Finish Date: 1/24/24		Time: 13:10						
WELL INFORMATION				EVENT TYPE						
Well ID: Hen-845-21015491				Well Development Well Volume Approach Sampling						
Transducer Serial #: 21015491				Low-Flow / Low Stress Sampling Other (Specify): Low Flow						
WATER QUALITY INDICATOR PARAMETERS (continued)										
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1225		51.61	3%	+1	846	2.45	10%	+10	clear
Page	1225		51.61	14.2	7.35	846	2.45	1.33	136.7	↑
	1230		51.61	13.6	7.36	842	2.41	1.19	135.0	
	1235		51.61	14.5	7.36	849	2.37	1.06	131.4	
	1240		51.61	14.4	7.35	848	2.35	0.79	129.9	
	1245		51.61	14.5	7.35	849	2.33	0.90	128.3	
	1250		51.61	14.7	7.35	847	2.31	0.77	127.1	
	1255		51.61	14.4	7.35	847	2.29	0.70	124.5	
	1300		51.61	14.6	7.35	847	2.28	0.75	122.5	
	1305		51.61	14.6	7.35	848	2.26	0.72	120.0	
	1310	46pl	51.61	14.6	7.35	848	2.27	0.70	118.5	
NOTES (continued)										
Sample @ 1310										
ABBREVIATIONS										
Cond. - Actual Conductivity FI BTDC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units										

PROJECT INFORMATION											
Site: Hennepin	Client: Vista	Start Date: 1-24-25	Time: 1355								
Project Number: 2024-0054	Task #: AB/LF	Finish Date: 1/24/25	Time: 1430								
Field Personnel:											
WELL INFORMATION				EVENT TYPE							
Well ID: HEN-47	Well Development	Low-Flow / Low Stress Sampling Other (Specify): Low Flow									
Transducer Serial #: 21015505	Well Volume Approach Sampling										
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Visual Clarity
Pre	1355	0	57.82		3%	7.13	957	2.57	10%	+10	Clear
1355			57.82		16.4	7.13	957	2.61	2.21	140.3	
1400			57.82		16.4	7.12	957	2.61	1.14	141.6	
1405			57.82		16.7	7.11	958	2.61	0.64	136.4	
1410			57.82		16.8	7.11	959	2.61	0.94	134.9	
1415			57.82		16.6	7.11	959	2.57	0.54	130.6	
1420			57.82		17.0	7.11	960	2.50	0.53	128.3	
1425			57.82		16.7	7.11	960	2.57	0.50	126.9	
1430		46.2	57.82		16.7	7.11	959	2.55	0.48	127.9	✓
NOTES (continued)										ABBREVIATIONS	
										Cond. - Actual Conductivity PI BTOC - Feet Below Top of Casing in -	
										ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units	

Sample at 1430

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Hennepin		Client: Vistra									
Project Number:		Task #:		Start Date: 1/23/24		Time: 1520					
Field Personnel: AB/LF		Finish Date: 1/23/24		Time: 1040							
WELL INFORMATION				EVENT TYPE							
Well ID: HEN-49				Low-Flow / Low Stress Sampling Other (Specify): Low Flow							
Transducer Serial #: 21029307				Well Development Well Volume Approach Sampling							
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (feet)	Drawdown (feet)	Temp. (°C)	pH (SU)	SEC or Cond. (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	1530	0	21.25		3%	+1	1028	10%	10%	+10	clear
5	1538	0.25	21.25		11.6	7.33	1028	10%	73.75	40.0	"
10	1543	0.25	21.25		9.8	7.21	1014	10%	69.100	40.2	"
15	1548	0.25	21.25		8.7	7.20	1057	10%	86.14	40.10	"
20	1553	0.25	21.25		9.1	7.18	1032	10%	110.27	51.8	"
25	1558	0.25	21.25		12.9	7.16	1055	10%	73.88	48.4	"
30	1603	1.5	21.25		13.1	7.14	1053	10%	72.81	46.3	cloudy
35	1608	2	21.25		13.1	7.16	1052	10%	69.98	45.3	"
40	1608	2	21.25		13.0	7.16	1054	10%	80.102	44.3	"
NOTES (continued) Sampled @ 1610 0.17											
ABBREVIATIONS											
Cond - Actual Conductivity FTBDC - Feet Below Top of Casing ft - Standard Units ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units											

PROJECT INFORMATION											
Site: <u>Hennepin</u>	Client: <u>Vistra</u>	Start Date: <u>1/23/24</u>	Time: <u>1540</u>								
Project Number: <u>2024-2054</u>	Task #: <u></u>	Finish Date: <u>1/23/24</u>	Time: <u>1030</u>								
Field Personnel: <u>AB/LF</u>											
WELL INFORMATION				EVENT TYPE							
Well ID: <u>HEN-50</u>	Well Development			Low-Flow / Low Stress Sampling Other (Specify): <u>Low Flow</u>							
Transducer Serial #: <u>21015489</u>	Well Volume Approach Sampling										
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>Pre</u>	<u>1540</u>		<u>17.57</u>		<u>3%</u>	<u>+1</u>	<u>3%</u>	<u>10%</u>	<u>10%</u>	<u>+10</u>	<u>CLEAR</u>
<u>Purge</u>	<u>1545</u>		<u>17.57</u>		<u>14.3</u>	<u>7.68</u>	<u>840</u>	<u>1.78</u>	<u>73.20</u>	<u>46.0</u>	
	<u>1550</u>		<u>17.52</u>		<u>13.7</u>	<u>7.60</u>	<u>895</u>	<u>1.42</u>	<u>83.70</u>	<u>50.1</u>	
	<u>1553</u>		<u>17.52</u>		<u>13.6</u>	<u>7.60</u>	<u>901</u>	<u>1.56</u>	<u>73.80</u>	<u>52.6</u>	
	<u>1600</u>		<u>17.52</u>		<u>13.7</u>	<u>7.60</u>	<u>910</u>	<u>1.48</u>	<u>69.23</u>	<u>54.7</u>	
	<u>1605</u>		<u>17.52</u>		<u>13.7</u>	<u>7.59</u>	<u>910</u>	<u>1.32</u>	<u>68.04</u>	<u>56.3</u>	
	<u>1610</u>	<u>3.5 GPH</u>	<u>17.52</u>		<u>13.7</u>	<u>7.59</u>	<u>910</u>	<u>1.32</u>	<u>67.40</u>	<u>57.5</u>	
NOTES (continued)				ABBREVIATIONS							
				Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units							

PosiBle Diaphragm Problem, A Lot of air Bubbles in water line.

1
2
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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Hennepin		Client: Vistra		Start Date: 1.24.24		Time: 8:20					
Project Number: 2024 000614 #		Finish Date: 1/24/24		Time: 900							
Field Personnel: AB/LF											
WELL INFORMATION				EVENT TYPE							
Well ID: HEN-51				Low-Flow / Low Stress Sampling Other (Specify): Low Flow							
Transducer Serial #: 21615008											
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (feet)	Drawdown (feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	820		17.81		9.5	7.36	1087	2.15	41.66	-106.7	Cloudy
Purge	820		17.81		9.2	7.37	1091	1.37	41.69	-128.6	
	825		17.95		9.9	7.40	1094	0.39	110.07	-156.8	
	830		17.95		10.1	7.41	1094	0.17	133.17	-165.0	
	835		17.85		10.0	7.42	1094	0.04	135.14	-171.2	
	840		17.95		9.9	7.42	1094	0.01	125.14	-174.0	
	845		17.95		9.8	7.43	1093	-0.06	111.37	-176.4	
	850		17.95		9.8	7.43	1093	-0.06	110.73	-177.0	
	855		17.95	36AL	9.9	7.42	1094	-0.06	109.77	-178.2	
	900										
NOTES (continued)											
Sample at 900 8 bottles											
ABBREVIATIONS											
Cond - Actual Conductivity FT BTDC - Feet Below Top of Casing in - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units											

PROJECT INFORMATION											
Site: Hemetpin	Client: Visra	Start Date: 1/24/24	Time: 1000								
Project Number: 2024-0054	Task #: 124/24	Finish Date: 1025									
Field Personnel: AB/LF											
WELL INFORMATION				EVENT TYPE							
Well ID: Hen-52	Well Development			Low-Flow / Low Stress Sampling Other (Specify): Low Flow							
Transducer Serial #: 21615145	Well Volume Approach Sampling										
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1000		53.95		3%	+1	3%	10%	10%	+10	Clear
Purge	1000		53.95		13.4	7.17	962	4.60	15.12	92.9	
	1005		53.95		13.9	7.16	966	3.61	5.08	90.1	
	1010		53.95		13.9	7.16	966	3.61	3.75	89.8	
	1015		53.95		13.9	7.16	966	3.62	2.44	89.3	
	1020		53.95		13.9	7.15	966	3.60	2.01	89.7	
	1025		53.95		13.9	7.15	966	3.60	1.97	89.8	
NOTES (continued)										ABBREVIATIONS	
Cond. - Actual Conductivity FT BTDC - Feet Below Top of Casing in - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units											

Sample one 9T 1025

Sampling at 1025

6 Bottles	no Filter Samples
-----------	-------------------

[illegible]

Cont. - Actual Count	FT BYOC - Feet Below
Sampled @ 1357	dupe!
(12 bottles (inc. dupe))	

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION										
Site: Hennepin	Client: Vista									
Project Number: 2024.0054	Task #: 125/24	Start Date: 1/25/24	Time: 0750							
Field Personnel: AB/LF	Finish Date: 1/25/24	Time: 0900								
WELL INFORMATION				EVENT TYPE						
Well ID: HEN-XP001-Pore	Well Development	Low-Flow / Low Stress Sampling Other (Specify): Low Flow								
Transducer Serial #: N/A	Well Volume Approach Sampling									
WATER QUALITY INDICATOR PARAMETERS (continued)										
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PUR	0752		10.50	3%	+1	1080	0.53	10%	+10	1000
PURGE	0755		10.51	14.5	11.44	1080	0.53	5.75	-146.1	1000
	0800	0.850	10.50	13.9	11.47	1081	0.10	4.30	-177.7	1000
	0805		10.51	14.2	11.40	1082	-0.05	1.33	-213.0	1000
	0810	1.25	10.52	14.1	11.47	1085	-0.07	12.11	-221.5	1000
	0815		10.52	14.0	11.47	1090	-0.08	7.08	-229.2	1000
	0820	2.0	10.52	14.1	11.47	1093	0.01	9.04	-233.5	1000
	0825		10.52	14.2	11.47	1097	-0.07	12.40	-237.8	1000
	0830	2.5	10.51	14.3	11.48	1104	-0.07	18.99	-251.5	1000
	0835		10.52	13.9	11.49	1109	-0.18	11.22	-253.7	1000
	0840		10.52	14.4	11.48	1116	-0.18	12.20	-257.5	1000
	0845	3.0	10.52	14.4	11.48	1113	-0.18	11.89	-259.9	1000
	0850									
	0855									
NOTES (continued)										
Sampled 0845										
* Water smelled like sulfur & had a sheen										
10 bottles										
no dedicated bladder										
* Used peristaltic pump										
ABBREVIATIONS										
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units COND - Actual Conductivity FT BTDC - Feet Below Top of Casing na -										

0
5
10
15
20
25
30
35
40
45
50
55
60
65

PROJECT INFORMATION

[illegible]

Sample d @ 0930

u bottles

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Hennepin	Client: Vistra	Task #: 2024.0054	Start Date: 1/25/24	Time: 0950							
Project Number:	AB/LF	Finish Date: 1/25/24	Time: 1100								
Field Personnel:											
WELL INFORMATION					EVENT TYPE						
Well ID: HEN-XPW03-P012	Well Development				Low-Flow / Low Stress Sampling Other (Specify): Low Flow						
Transducer Serial #: N/A	Well Volume Approach Sampling										
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (feet)	Drawdown (feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0 pre	0954	0	6.10		3%	+1	1038	2.48	10%	+10	clear
5 purge	0956		6.27		11.3	11.95	1597	0.07	3.49	-52.1	"
10	1001		6.24		11.5	11.91	1597	0.38	1.31	-64.5	"
15	1006	1	6.25		11.5	11.92	1594	0.20	1.21	-74.9	"
20	1011		6.25		11.5	11.92	1598	0.09	1.16	-78.1	"
25	1016		6.25		11.4	11.93	1598	0.09	1.59	-82.3	"
30	1021		6.25		11.3	11.93	1598	0.09	1.13	-84.4	"
35	1026	2.5	6.25		11.4	11.93	1598	0.08	1.00	-85.7	"
NOTES (continued)										ABBREVIATIONS	
Sampled @ 1030										Cond. - Actual Conductivity FT BTIC - Feet Below Top of Casing in - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units	

*No dedicated bladder
used peristaltic

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: HEN

Event: HEN-24Q1 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
02	HEN_02	1/22/24	1222	44.93	DTB: 51.13	AB
04R	HEN_04R	1/22/24	1112	39.39	DTB: 45.43	AB
05DR	HEN_05&DR	1/22/24	1145	41.26	DTB: 71.29	AB
05R	HEN_05!R	1/22/24	1147	4.17	DTB: 48.79	AB
06	HEN_06	1/22/24	1002	22.54	DTB: 33.8	AB
10	HEN_10	1/22/24	1023	50.72	DTB: 51.45	AB
11	HEN_11	1/22/24	1028	50.95	DTB: 69.5	AB
15	HEN_15	1/22/24	1107	49.73	DTB: 52.81	AB
19D	HEN_19&D	1/22/24	1125	40.03	DTB: 65.44	AB
19S	HEN_19#S	1/22/24	1126	40.17	DTB: 42.57	AB
25	HEN_25	1/22/24	1527	15.62	DTB: 18.17	AB
26	HEN_26	1/22/24	1529	15.67	DTB: 27.32	AB
30	HEN_30	1/22/24	1544	6.25	DTB: 21.30	AB
31	HEN_31	1/22/24	1543	6.17	10.03: DTB	AB
33	HEN_33	1/22/24	1606	3.71	DTB: 38.16	AB
36	HEN_36	1/22/24	1430	15.70	DTB: 28.85	AB
40S	HEN_40#S	1/22/24	1133	40.49	DTB: 42.37	AB
45S	HEN_45#S	1/22/24	1015	20.24	DTB: 38.52	AB
48	HEN_48	1/22/24	1137	39.57	DTB: 45.13	AB
XPW01	HEN_XPW01_pore	1/22/24	1340	10.51	DTB: 19.73	AB
XPW02	HEN_XPW02_pore	1/22/24	1350	14.63	DTB: 21.73	AB
XPW03	HEN_XPW03_pore	1/22/24	1330	6.58	DTB: 22.04	AB
SG02	HEN_YSG_ILRIVER	1/22/24	1420	22.07	from higher elev. on bridge	AB
53	HEN_53	1/22/24	1345	55.67	U: 12/19/23 JRK DTB: 66.72	AB

go as we sample

24 hours!!

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
~~All DTB's on SAR-4 form may be collected at anytime during the sampling event.~~
Plant: HEN
Event: HEN-24Q1 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)		
03R	HEN_03R	1/22/24	1212	34.96	21615140	Y	447.38	Y	H	DTB: 46.93	AB
07	HEN_07	1/23/24	0720	68.78	21615139	Y	449.61	Y	H	DTB: 72.27	AB
08	HEN_08	1/22/24	1245	53.82	21615138	Y	447.54	Y	H	DTB: 53.96	AB
08D	HEN_08&D	1/22/24	1250	54.2	21615598	Y	447.21	Y	H	DTB: 84.13	AB
12	HEN_12	1/22/24	1052	51.34	21615520	Y	447.44	Y	H	DTB: 51.35	AB
13	HEN_13	1/22/24	1049	51.36	21615515	Y	447.44	Y	H	DTB: 51.91	AB
16	HEN_16	1/22/24	1315	54.38	21615534	Y	447.15	Y	H	DTB: 60.82	AB
17	HEN_17	1/22/24	1320	58.98	21615500	Y	448.39	Y	H	DTB: 61.79	AB
18D	HEN_18&D	1/22/24	1154	40.57	21615609	Y	447.41	Y	H	DTB: 72.47	AB
18S	HEN_18#S	1/22/24	1150	40.42	21615482	Y	447.38	Y	H	DTB: 42.87	AB
21R	HEN_21R	1/22/24	1440	15.48	21615613	Y	446.92	Y	H	DTB: 45.03	AB
22	HEN_22	1/22/24	1505	17.95	21615497	Y	446.82	Y	H	DTB: 27.35	AB
22D	HEN_22&D	1/22/24	1502	18.79	21564134	Y	446.92	Y	H	DTB: 53.45	AB
23	HEN_23	1/22/24	1450	16.68	21615600	Y	447.08	Y	H	DTB: 35.34	AB
27	HEN_27	1/22/24	1415	3.82	21615576	Y	446.98	Y	H	DTB: 29.95	AB
32	HEN_32	1/22/24	1550	4.64	21615487	Y	447.08	Y	H	DTB: 13.25	AB
34	HEN_34	1/22/24	1633	4.09	21615509	Y	445.9	Y	H	DTB: 30.23	AB
35	HEN_35	1/22/24	1535	7.97	21615510	Y	447.05	Y	H	DTB: 16.08	AB
46	HEN_46	1/22/24	1100	51.58	21615491	Y	446.75	Y	H	DTB: 59.39	AB
47	HEN_47	1/22/24	1030	55.84	21615505	Y	447.15	Y	H	DTB: 57.61	AB
49	HEN_49	1/22/24	1455	21.33	21629307	Y	447.08	Y	H	DTB: 38.59	AB
50	HEN_50	1/22/24	1410	17.54	21615489	Y	446.69	Y		DTB: 22.94	AB
51	HEN_51	1/22/24	1440	18.04	21615608	Y	447.08	Y	H	DTB: 58.25	AB
52	HEN_52	1/22/24	1228	53.98	21615145	Y	447.24	Y	H	DTB: 61.21	AB
54	HEN_54	1/22/24	1039	53.92	21615143	Y	447.18	Y	H	DTB: 68.29	AB
55	HEN_55	1/22/24	1045	51.55	21615612	Y	447.24	Y	H	DTB: 93.11	AB
XSG01	HEN_XSG01	1/22/24	1355	10.1	21768087	Y	483.63	Y	H	NO DTB	AB
SG02	HEN_YSG_ILRIVER	1/22/24	1420	22.87	21768088	Y	11.25	Y	H	NO DTB	AB

U: 12/19/23 JRK

ANALYTICAL REPORT

PREPARED FOR

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

Generated 02/22/24 15:37:07

JOB DESCRIPTION

HEN-24Q1
HEN_000_RAD

JOB NUMBER

500-245277-2

Job Notes

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

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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project: HEN-24Q1

Job ID: 500-245277-2

Job ID: 500-245277-2

Eurofins Chicago

Job Narrative 500-245277-2

Receipt

The samples were received on 01/24/24 12:20. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 12 coolers at receipt time were 2.1° C, 2.3° C, 2.6° C, 2.7° C, 3.2° C, 3.3° C, 3.9° C, 4.1° C, 4.4° C, 4.4° C, 5.1° C and 5.2° C.

RAD

Method 904.0: Radium-228 prep batch 160-645980:

The following samples have an RER (replicate error ratio) result outside of the acceptance criteria of 1 for 1.20. Duplicate precision is demonstrated by acceptable relative percent difference (RPD), within the limit of 40%. The data have been reported with this narrative. HEN_49_MSD (500-245277-9[MSD])

Method 904.0: Radium-228 prep batch 160-645980:

The following samples did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. HEN_21R (500-245277-1), HEN_49 (500-245277-9) and HEN_49_MS (500-245277-9[MS])

Method 904.0: Radium-228 prep batch 160-645980:

The matrix spike (MS) recoveries for preparation batch 160-645980 and analytical batch 160-647494 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 904.0: Radium-228 prep batch 160-646071:

The following samples did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. HEN_XPW01_PORE (500-245277-36)

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

Eurofins Chicago

Detection Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_21R	Lab Sample ID: 500-245277-1
No Detections.	
Client Sample ID: HEN_22	Lab Sample ID: 500-245277-2
No Detections.	
Client Sample ID: HEN_22&D	Lab Sample ID: 500-245277-3
No Detections.	
Client Sample ID: HEN_27	Lab Sample ID: 500-245277-4
No Detections.	
Client Sample ID: HEN_32	Lab Sample ID: 500-245277-5
No Detections.	
Client Sample ID: HEN_34	Lab Sample ID: 500-245277-6
No Detections.	
Client Sample ID: HEN_35	Lab Sample ID: 500-245277-7
No Detections.	
Client Sample ID: HEN_35_FD	Lab Sample ID: 500-245277-8
No Detections.	
Client Sample ID: HEN_49	Lab Sample ID: 500-245277-9
No Detections.	
Client Sample ID: HEN_50	Lab Sample ID: 500-245277-10
No Detections.	
Client Sample ID: HEN_12	Lab Sample ID: 500-245277-13
No Detections.	
Client Sample ID: HEN_13	Lab Sample ID: 500-245277-14
No Detections.	
Client Sample ID: HEN_16	Lab Sample ID: 500-245277-15
No Detections.	
Client Sample ID: HEN_16_FD	Lab Sample ID: 500-245277-16
No Detections.	
Client Sample ID: HEN_17	Lab Sample ID: 500-245277-17
No Detections.	
Client Sample ID: HEN_23	Lab Sample ID: 500-245277-18
No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_46	Lab Sample ID: 500-245277-19
☐ No Detections.	
Client Sample ID: HEN_47	Lab Sample ID: 500-245277-20
☐ No Detections.	
Client Sample ID: HEN_51	Lab Sample ID: 500-245277-21
☐ No Detections.	
Client Sample ID: HEN_52	Lab Sample ID: 500-245277-22
☐ No Detections.	
Client Sample ID: HEN_54	Lab Sample ID: 500-245277-23
☐ No Detections.	
Client Sample ID: HEN_54_FD	Lab Sample ID: 500-245277-24
☐ No Detections.	
Client Sample ID: HEN_FB	Lab Sample ID: 500-245277-25
☐ No Detections.	
Client Sample ID: HEN_03R	Lab Sample ID: 500-245277-26
☐ No Detections.	
Client Sample ID: HEN_03R_FD	Lab Sample ID: 500-245277-27
☐ No Detections.	
Client Sample ID: HEN_08&D	Lab Sample ID: 500-245277-30
☐ No Detections.	
Client Sample ID: HEN_18#S	Lab Sample ID: 500-245277-32
☐ No Detections.	
Client Sample ID: HEN_18&D	Lab Sample ID: 500-245277-33
☐ No Detections.	
Client Sample ID: HEN_45#S	Lab Sample ID: 500-245277-35
☐ No Detections.	
Client Sample ID: HEN_XPW01_PORE	Lab Sample ID: 500-245277-36
☐ No Detections.	
Client Sample ID: HEN_XPW02_PORE	Lab Sample ID: 500-245277-37
☐ No Detections.	
Client Sample ID: HEN_XPW03_PORE	Lab Sample ID: 500-245277-38
☐ No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Lab Sample ID: 500-245277-39

Lab Sample ID: 500-245277-40

No Detections.

Method Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 590-245277-2
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-24Q1

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-245277-1	HEN_21R	Water	01/23/24 12:40	01/24/24 12:20
500-245277-2	HEN_22	Water	01/23/24 15:20	01/24/24 12:20
500-245277-3	HEN_22&D	Water	01/23/24 15:00	01/24/24 12:20
500-245277-4	HEN_27	Water	01/23/24 10:45	01/24/24 12:20
500-245277-5	HEN_32	Water	01/23/24 09:30	01/24/24 12:20
500-245277-6	HEN_34	Water	01/23/24 11:50	01/24/24 12:20
500-245277-7	HEN_35	Water	01/23/24 13:40	01/24/24 12:20
500-245277-8	HEN_35_FD	Water	01/23/24 13:40	01/24/24 12:20
500-245277-9	HEN_49	Water	01/23/24 16:10	01/24/24 12:20
500-245277-10	HEN_50	Water	01/23/24 16:10	01/24/24 12:20
500-245277-13	HEN_12	Water	01/24/24 11:55	01/25/24 11:51
500-245277-14	HEN_13	Water	01/24/24 12:41	01/25/24 11:51
500-245277-15	HEN_16	Water	01/24/24 10:55	01/25/24 11:51
500-245277-16	HEN_16_FD	Water	01/24/24 10:55	01/25/24 11:51
500-245277-17	HEN_17	Water	01/24/24 11:55	01/25/24 11:51
500-245277-18	HEN_23	Water	01/24/24 08:35	01/25/24 11:51
500-245277-19	HEN_46	Water	01/24/24 13:10	01/25/24 11:51
500-245277-20	HEN_47	Water	01/24/24 14:30	01/25/24 11:51
500-245277-21	HEN_51	Water	01/24/24 09:00	01/25/24 11:51
500-245277-22	HEN_52	Water	01/24/24 10:25	01/25/24 11:51
500-245277-23	HEN_54	Water	01/24/24 13:57	01/25/24 11:51
500-245277-24	HEN_54_FD	Water	01/24/24 13:57	01/25/24 11:51
500-245277-25	HEN_FB	Water	01/24/24 16:10	01/25/24 11:51
500-245277-26	HEN_03R	Water	01/25/24 12:15	01/26/24 11:45
500-245277-27	HEN_03R_FD	Water	01/25/24 12:15	01/26/24 11:45
500-245277-30	HEN_08&D	Water	01/25/24 13:05	01/26/24 11:45
500-245277-32	HEN_18#S	Water	01/25/24 13:30	01/26/24 11:45
500-245277-33	HEN_18&D	Water	01/25/24 14:40	01/26/24 11:45
500-245277-35	HEN_45#S	Water	01/25/24 11:45	01/26/24 11:45
500-245277-36	HEN_XPW01_PORE	Water	01/25/24 08:45	01/26/24 11:45
500-245277-37	HEN_XPW02_PORE	Water	01/25/24 09:30	01/26/24 11:45
500-245277-38	HEN_XPW03_PORE	Water	01/25/24 10:30	01/26/24 11:45
500-245277-39	HEN_07	Water	01/26/24 08:50	01/26/24 11:45
500-245277-40	HEN_08	Water	01/26/24 08:20	01/26/24 11:45

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_21R

Lab Sample ID: 500-245277-1

Date Collected: 01/23/24 12:40

Matrix: Water

Date Received: 01/24/24 12:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.989		0.317	0.329	1.00	0.310	pCi/L	01/29/24 09:16	02/20/24 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.8		30 - 110					01/29/24 09:16	02/20/24 07:30	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.277	U F G	0.843	0.843	1.00	1.66	pCi/L	01/29/24 09:19	02/09/24 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.8		30 - 110					01/29/24 09:19	02/09/24 12:14	1
Y Carrier	84.1		30 - 110					01/29/24 09:19	02/09/24 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.989	U	0.901	0.905	5.00	1.66	pCi/L		02/21/24 16:16	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22

Lab Sample ID: 500-245277-2

Date Collected: 01/23/24 15:20

Matrix: Water

Date Received: 01/24/24 12:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124		0.0805	0.0813	1.00	0.112	pCi/L	01/29/24 09:16	02/20/24 07:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					01/29/24 09:16	02/20/24 07:23	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	0.458	U F	0.411	0.413	1.00	0.654	pCi/L	01/29/24 09:19	02/09/24 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					01/29/24 09:19	02/09/24 12:15	1
Y Carrier	82.2		30 - 110					01/29/24 09:19	02/09/24 12:15	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.582	U	0.419	0.421	5.00	0.654	pCi/L		02/21/24 16:16	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22&D

Lab Sample ID: 500-245277-3

Date Collected: 01/23/24 15:00

Matrix: Water

Date Received: 01/24/24 12:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.827		0.170	0.185	1.00	0.116	pCi/L	01/29/24 09:16	02/20/24 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		30 - 110					01/29/24 09:16	02/20/24 09:23	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	0.608	U F	0.422	0.425	1.00	0.629	pCi/L	01/29/24 09:19	02/09/24 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		30 - 110					01/29/24 09:19	02/09/24 12:15	1
Y Carrier	76.6		30 - 110					01/29/24 09:19	02/09/24 12:15	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.44		0.455	0.464	5.00	0.629	pCi/L		02/21/24 16:16	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_27

Lab Sample ID: 500-245277-4

Date Collected: 01/23/24 10:45

Matrix: Water

Date Received: 01/24/24 12:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.138	U	0.115	0.116	1.00	0.174	pCi/L	01/29/24 09:16	02/20/24 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		30 - 110					01/29/24 09:16	02/20/24 09:23	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	-0.374	U F	0.459	0.460	1.00	0.965	pCi/L	01/29/24 09:19	02/09/24 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		30 - 110					01/29/24 09:19	02/09/24 12:15	1
Y Carrier	78.5		30 - 110					01/29/24 09:19	02/09/24 12:15	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.138	U	0.473	0.474	5.00	0.965	pCi/L		02/21/24 16:16	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_32

Lab Sample ID: 500-245277-5

Date Collected: 01/23/24 09:30

Matrix: Water

Date Received: 01/24/24 12:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0920	U	0.109	0.109	1.00	0.179	pCi/L	01/29/24 09:16	02/20/24 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		30 - 110					01/29/24 09:16	02/20/24 09:23	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	0.461	U F	0.537	0.539	1.00	0.883	pCi/L	01/29/24 09:19	02/09/24 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		30 - 110					01/29/24 09:19	02/09/24 12:15	1
Y Carrier	76.3		30 - 110					01/29/24 09:19	02/09/24 12:15	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.553	U	0.548	0.550	5.00	0.883	pCi/L		02/21/24 16:16	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_34

Lab Sample ID: 500-245277-6

Date Collected: 01/23/24 11:50

Matrix: Water

Date Received: 01/24/24 12:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.464		0.164	0.169	1.00	0.173	pCi/L	01/29/24 09:16	02/20/24 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.9		30 - 110					01/29/24 09:16	02/20/24 09:23	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	0.639	U F	0.561	0.564	1.00	0.883	pCi/L	01/29/24 09:19	02/09/24 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.9		30 - 110					01/29/24 09:19	02/09/24 12:16	1
Y Carrier	79.6		30 - 110					01/29/24 09:19	02/09/24 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	1.10		0.584	0.589	5.00	0.883	pCi/L		02/21/24 16:16	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35

Lab Sample ID: 500-245277-7

Date Collected: 01/23/24 13:40

Matrix: Water

Date Received: 01/24/24 12:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0645	U	0.0696	0.0699	1.00	0.110	pCi/L	01/29/24 09:16	02/20/24 09:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.0		30 - 110					01/29/24 09:16	02/20/24 09:24	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	0.397	U F	0.451	0.453	1.00	0.738	pCi/L	01/29/24 09:19	02/09/24 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.0		30 - 110					01/29/24 09:19	02/09/24 12:16	1
Y Carrier	71.0		30 - 110					01/29/24 09:19	02/09/24 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	0.461	U	0.456	0.458	5.00	0.738	pCi/L		02/21/24 16:16	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35_FD

Lab Sample ID: 500-245277-8

Date Collected: 01/23/24 13:40

Matrix: Water

Date Received: 01/24/24 12:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0863	U	0.0740	0.0744	1.00	0.110	pCi/L	01/29/24 09:16	02/20/24 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.7		30 - 110					01/29/24 09:16	02/20/24 09:23	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 F	0.363	0.364	1.00	0.601	pCi/L	01/29/24 09:19	02/09/24 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.7		30 - 110					01/29/24 09:19	02/09/24 12:16	1
Y Carrier	78.9		30 - 110					01/29/24 09:19	02/09/24 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	0.384	U	0.370	0.372	5.00	0.601	pCi/L		02/21/24 16:16	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_49

Lab Sample ID: 500-245277-9

Date Collected: 01/23/24 16:10

Matrix: Water

Date Received: 01/24/24 12:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.352		0.168	0.171	1.00	0.191	pCi/L	01/29/24 09:16	02/20/24 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	55.0		30 - 110					01/29/24 09:16	02/20/24 09:23	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	0.595	U G F	0.693	0.696	1.00	1.14	pCi/L	01/29/24 09:19	02/09/24 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	55.0		30 - 110					01/29/24 09:19	02/09/24 12:17	1
Y Carrier	80.0		30 - 110					01/29/24 09:19	02/09/24 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	0.947	U	0.713	0.717	5.00	1.14	pCi/L		02/21/24 16:16	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_50

Lab Sample ID: 500-245277-10

Date Collected: 01/23/24 16:10

Matrix: Water

Date Received: 01/24/24 12:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.426		0.124	0.130	1.00	0.105	pCi/L	01/29/24 09:16	02/20/24 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		30 - 110					01/29/24 09:16	02/20/24 09:23	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	0.348	U F	0.442	0.443	1.00	0.734	pCi/L	01/29/24 09:19	02/09/24 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		30 - 110					01/29/24 09:19	02/09/24 12:26	1
Y Carrier	75.1		30 - 110					01/29/24 09:19	02/09/24 12:26	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	0.774		0.459	0.462	5.00	0.734	pCi/L		02/21/24 16:16	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_12

Lab Sample ID: 500-245277-13

Date Collected: 01/24/24 11:55

Matrix: Water

Date Received: 01/25/24 11:51

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	0.0457	U	0.0554	0.0555	1.00	0.0908	pCi/L	01/29/24 09:04	02/20/24 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		30 - 110					01/29/24 09:04	02/20/24 09:20	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.268	U	0.282	0.284	1.00	0.457	pCi/L	01/29/24 09:08	02/07/24 11:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		30 - 110					01/29/24 09:08	02/07/24 11:32	1
Y Carrier	81.5		30 - 110					01/29/24 09:08	02/07/24 11:32	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	0.313	U	0.287	0.289	5.00	0.457	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_13

Lab Sample ID: 500-245277-14

Date Collected: 01/24/24 12:41

Matrix: Water

Date Received: 01/25/24 11:51

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		0.0697	0.0703	1.00	0.0944	pCi/L	01/29/24 09:04	02/20/24 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		30 - 110					01/29/24 09:04	02/20/24 09:20	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.574		0.358	0.362	1.00	0.529	pCi/L	01/29/24 09:08	02/07/24 11:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		30 - 110					01/29/24 09:08	02/07/24 11:32	1
Y Carrier	84.9		30 - 110					01/29/24 09:08	02/07/24 11:32	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	0.678		0.365	0.369	5.00	0.529	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16

Lab Sample ID: 500-245277-15

Date Collected: 01/24/24 10:55

Matrix: Water

Date Received: 01/25/24 11:51

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	0.0833	U	0.0633	0.0638	1.00	0.0898	pCi/L	01/29/24 09:04	02/20/24 09:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					01/29/24 09:04	02/20/24 09:20	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.114	U	0.256	0.256	1.00	0.449	pCi/L	01/29/24 09:08	02/07/24 11:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					01/29/24 09:08	02/07/24 11:32	1
Y Carrier	86.7		30 - 110					01/29/24 09:08	02/07/24 11:32	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	0.198	U	0.264	0.264	5.00	0.449	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16_FD

Lab Sample ID: 500-245277-16

Date Collected: 01/24/24 10:55

Matrix: Water

Date Received: 01/25/24 11:51

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	0.0787		0.0575	0.0580	1.00	0.0773	pCi/L	01/29/24 09:04	02/20/24 09:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110					01/29/24 09:04	02/20/24 09:21	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	0.188	U	0.258	0.258	1.00	0.433	pCi/L	01/29/24 09:08	02/07/24 11:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110					01/29/24 09:08	02/07/24 11:31	1
Y Carrier	85.2		30 - 110					01/29/24 09:08	02/07/24 11:31	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	0.266	U	0.264	0.264	5.00	0.433	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_17

Lab Sample ID: 500-245277-17

Date Collected: 01/24/24 11:55

Matrix: Water

Date Received: 01/25/24 11:51

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	0.132		0.0702	0.0712	1.00	0.0794	pCi/L	01/29/24 09:04	02/20/24 09:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					01/29/24 09:04	02/20/24 09:21	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	0.412	U	0.308	0.310	1.00	0.468	pCi/L	01/29/24 09:08	02/07/24 11:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					01/29/24 09:08	02/07/24 11:31	1
Y Carrier	84.5		30 - 110					01/29/24 09:08	02/07/24 11:31	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	0.544		0.316	0.318	5.00	0.468	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_23

Lab Sample ID: 500-245277-18

Date Collected: 01/24/24 08:35

Matrix: Water

Date Received: 01/25/24 11:51

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	0.0602	U	0.0554	0.0556	1.00	0.0815	pCi/L	01/29/24 09:04	02/20/24 09:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		30 - 110					01/29/24 09:04	02/20/24 09:22	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	-0.0436	U	0.286	0.286	1.00	0.547	pCi/L	01/29/24 09:08	02/07/24 11:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		30 - 110					01/29/24 09:08	02/07/24 11:31	1
Y Carrier	87.1		30 - 110					01/29/24 09:08	02/07/24 11:31	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	0.0602	U	0.291	0.291	5.00	0.547	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_46

Lab Sample ID: 500-245277-19

Date Collected: 01/24/24 13:10

Matrix: Water

Date Received: 01/25/24 11:51

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.151		0.0719	0.0732	1.00	0.0751	pCi/L	01/29/24 09:04	02/20/24 09:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					01/29/24 09:04	02/20/24 09:22	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	0.469	U	0.367	0.370	1.00	0.572	pCi/L	01/29/24 09:08	02/07/24 11:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					01/29/24 09:08	02/07/24 11:31	1
Y Carrier	81.1		30 - 110					01/29/24 09:08	02/07/24 11:31	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	0.620		0.374	0.377	5.00	0.572	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_47

Lab Sample ID: 500-245277-20

Date Collected: 01/24/24 14:30

Matrix: Water

Date Received: 01/25/24 11:51

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	0.0710	U	0.0615	0.0618	1.00	0.0920	pCi/L	01/29/24 09:04	02/20/24 09:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					01/29/24 09:04	02/20/24 09:22	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	0.268	U	0.262	0.263	1.00	0.419	pCi/L	01/29/24 09:08	02/07/24 11:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					01/29/24 09:08	02/07/24 11:31	1
Y Carrier	85.6		30 - 110					01/29/24 09:08	02/07/24 11:31	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	0.339	U	0.269	0.270	5.00	0.419	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_51

Lab Sample ID: 500-245277-21

Date Collected: 01/24/24 09:00

Matrix: Water

Date Received: 01/25/24 11:51

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	1.06		0.260	0.277	1.00	0.175	pCi/L	01/29/24 09:04	02/20/24 09:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					01/29/24 09:04	02/20/24 09:22	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	0.871	U	0.640	0.645	1.00	0.962	pCi/L	01/29/24 09:08	02/07/24 11:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					01/29/24 09:08	02/07/24 11:31	1
Y Carrier	81.1		30 - 110					01/29/24 09:08	02/07/24 11:31	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	1.93		0.691	0.702	5.00	0.962	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_52

Lab Sample ID: 500-245277-22

Date Collected: 01/24/24 10:25

Matrix: Water

Date Received: 01/25/24 11:51

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	0.106		0.0746	0.0752	1.00	0.104	pCi/L	01/29/24 09:04	02/20/24 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		30 - 110					01/29/24 09:04	02/20/24 09:32	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.272	U	0.273	0.274	1.00	0.438	pCi/L	01/29/24 09:08	02/07/24 11:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		30 - 110					01/29/24 09:08	02/07/24 11:31	1
Y Carrier	85.2		30 - 110					01/29/24 09:08	02/07/24 11:31	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	0.378	U	0.283	0.284	5.00	0.438	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54

Lab Sample ID: 500-245277-23

Date Collected: 01/24/24 13:57

Matrix: Water

Date Received: 01/25/24 11:51

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	0.0984		0.0664	0.0670	1.00	0.0903	pCi/L	01/29/24 09:04	02/20/24 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		30 - 110					01/29/24 09:04	02/20/24 09:32	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.280	U	0.322	0.323	1.00	0.528	pCi/L	01/29/24 09:08	02/07/24 11:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		30 - 110					01/29/24 09:08	02/07/24 11:31	1
Y Carrier	75.9		30 - 110					01/29/24 09:08	02/07/24 11:31	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	0.379	U	0.329	0.330	5.00	0.528	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54_FD

Lab Sample ID: 500-245277-24

Date Collected: 01/24/24 13:57

Matrix: Water

Date Received: 01/25/24 11:51

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	0.0507	U	0.0696	0.0697	1.00	0.117	pCi/L	01/29/24 09:04	02/20/24 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		30 - 110					01/29/24 09:04	02/20/24 09:32	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.430	U	0.356	0.358	1.00	0.554	pCi/L	01/29/24 09:08	02/07/24 11:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		30 - 110					01/29/24 09:08	02/07/24 11:31	1
Y Carrier	80.4		30 - 110					01/29/24 09:08	02/07/24 11:31	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	0.480	U	0.363	0.365	5.00	0.554	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_FB

Lab Sample ID: 500-245277-25

Date Collected: 01/24/24 16:10

Matrix: Water

Date Received: 01/25/24 11:51

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	-0.0193	U	0.0668	0.0668	1.00	0.137	pCi/L	01/29/24 09:04	02/20/24 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					01/29/24 09:04	02/20/24 09:32	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.562		0.330	0.334	1.00	0.474	pCi/L	01/29/24 09:08	02/07/24 11:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					01/29/24 09:08	02/07/24 11:30	1
Y Carrier	84.9		30 - 110					01/29/24 09:08	02/07/24 11:30	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	0.562		0.337	0.341	5.00	0.474	pCi/L		02/21/24 16:02	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R

Lab Sample ID: 500-245277-26

Date Collected: 01/25/24 12:15

Matrix: Water

Date Received: 01/26/24 11:45

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	0.154		0.0965	0.0975	1.00	0.134	pCi/L	01/30/24 10:07	02/21/24 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		30 - 110					01/30/24 10:07	02/21/24 09:37	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	0.165	U	0.274	0.274	1.00	0.468	pCi/L	01/30/24 10:19	02/12/24 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		30 - 110					01/30/24 10:19	02/12/24 12:10	1
Y Carrier	87.5		30 - 110					01/30/24 10:19	02/12/24 12:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.319	U	0.290	0.291	5.00	0.468	pCi/L		02/22/24 13:59	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R_FD

Lab Sample ID: 500-245277-27

Date Collected: 01/25/24 12:15

Matrix: Water

Date Received: 01/26/24 11:45

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	0.0358	U	0.0550	0.0551	1.00	0.0950	pCi/L	01/30/24 10:07	02/21/24 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		30 - 110					01/30/24 10:07	02/21/24 09:37	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	0.0519	U	0.248	0.248	1.00	0.451	pCi/L	01/30/24 10:19	02/12/24 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		30 - 110					01/30/24 10:19	02/12/24 12:10	1
Y Carrier	90.8		30 - 110					01/30/24 10:19	02/12/24 12:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0877	U	0.254	0.254	5.00	0.451	pCi/L		02/22/24 13:59	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08&D

Lab Sample ID: 500-245277-30

Date Collected: 01/25/24 13:05

Matrix: Water

Date Received: 01/26/24 11:45

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	0.175		0.0968	0.0981	1.00	0.122	pCi/L	01/30/24 10:07	02/21/24 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					01/30/24 10:07	02/21/24 09:37	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	0.214	U	0.305	0.306	1.00	0.513	pCi/L	01/30/24 10:19	02/12/24 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					01/30/24 10:19	02/12/24 12:10	1
Y Carrier	93.8		30 - 110					01/30/24 10:19	02/12/24 12:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.389	U	0.320	0.321	5.00	0.513	pCi/L		02/22/24 13:59	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18#S

Lab Sample ID: 500-245277-32

Date Collected: 01/25/24 13:30

Matrix: Water

Date Received: 01/26/24 11:45

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	0.00865	U	0.0545	0.0545	1.00	0.109	pCi/L	01/30/24 10:07	02/21/24 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					01/30/24 10:07	02/21/24 09:37	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	0.753		0.402	0.408	1.00	0.567	pCi/L	01/30/24 10:19	02/12/24 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					01/30/24 10:19	02/12/24 12:10	1
Y Carrier	81.5		30 - 110					01/30/24 10:19	02/12/24 12:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.761		0.406	0.412	5.00	0.567	pCi/L		02/22/24 13:59	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18&D

Lab Sample ID: 500-245277-33

Date Collected: 01/25/24 14:40

Matrix: Water

Date Received: 01/26/24 11:45

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	0.207		0.139	0.141	1.00	0.203	pCi/L	01/30/24 10:07	02/21/24 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		30 - 110					01/30/24 10:07	02/21/24 09:37	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	0.679	U	0.473	0.477	1.00	0.713	pCi/L	01/30/24 10:19	02/12/24 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		30 - 110					01/30/24 10:19	02/12/24 12:09	1
Y Carrier	84.9		30 - 110					01/30/24 10:19	02/12/24 12:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.886		0.493	0.497	5.00	0.713	pCi/L		02/22/24 13:59	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_45#S

Lab Sample ID: 500-245277-35

Date Collected: 01/25/24 11:45

Matrix: Water

Date Received: 01/26/24 11:45

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	0.211		0.143	0.145	1.00	0.206	pCi/L	01/30/24 10:07	02/21/24 09:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		30 - 110					01/30/24 10:07	02/21/24 09:37	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	0.610	U	0.455	0.458	1.00	0.693	pCi/L	01/30/24 10:19	02/12/24 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		30 - 110					01/30/24 10:19	02/12/24 12:09	1
Y Carrier	89.7		30 - 110					01/30/24 10:19	02/12/24 12:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.821		0.477	0.480	5.00	0.693	pCi/L		02/22/24 13:59	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_XPW01_PORE

Lab Sample ID: 500-245277-36

Date Collected: 01/25/24 08:45

Matrix: Water

Date Received: 01/26/24 11:45

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	0.00893	U	0.187	0.187	1.00	0.371	pCi/L	01/30/24 10:07	02/21/24 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	34.1		30 - 110					01/30/24 10:07	02/21/24 09:32	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.21	U G	1.14	1.14	1.00	1.80	pCi/L	01/30/24 10:19	02/12/24 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	34.1		30 - 110					01/30/24 10:19	02/12/24 12:09	1
Y Carrier	83.4		30 - 110					01/30/24 10:19	02/12/24 12:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.21	U	1.16	1.16	5.00	1.80	pCi/L		02/22/24 13:59	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_XPW02_PORE

Lab Sample ID: 500-245277-37

Date Collected: 01/25/24 09:30

Matrix: Water

Date Received: 01/26/24 11:45

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	0.0873	U	0.0721	0.0725	1.00	0.106	pCi/L	01/30/24 10:07	02/21/24 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					01/30/24 10:07	02/21/24 09:32	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.39		0.449	0.467	1.00	0.525	pCi/L	01/30/24 10:19	02/12/24 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					01/30/24 10:19	02/12/24 12:09	1
Y Carrier	84.1		30 - 110					01/30/24 10:19	02/12/24 12:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.48		0.455	0.473	5.00	0.525	pCi/L		02/22/24 13:59	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_XPW03_PORE

Lab Sample ID: 500-245277-38

Date Collected: 01/25/24 10:30

Matrix: Water

Date Received: 01/26/24 11:45

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	0.00643	U	0.0495	0.0495	1.00	0.0997	pCi/L	01/30/24 10:07	02/21/24 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					01/30/24 10:07	02/21/24 09:32	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.473	U	0.350	0.353	1.00	0.536	pCi/L	01/30/24 10:19	02/12/24 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					01/30/24 10:19	02/12/24 12:09	1
Y Carrier	84.5		30 - 110					01/30/24 10:19	02/12/24 12:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.480	U	0.353	0.356	5.00	0.536	pCi/L		02/22/24 13:59	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_07

Lab Sample ID: 500-245277-39

Date Collected: 01/26/24 08:50

Matrix: Water

Date Received: 01/26/24 11:45

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	0.241		0.0927	0.0952	1.00	0.0943	pCi/L	01/30/24 10:07	02/21/24 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		30 - 110					01/30/24 10:07	02/21/24 09:32	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.706		0.356	0.362	1.00	0.494	pCi/L	01/30/24 10:19	02/12/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		30 - 110					01/30/24 10:19	02/12/24 12:08	1
Y Carrier	81.9		30 - 110					01/30/24 10:19	02/12/24 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	0.947		0.368	0.374	5.00	0.494	pCi/L		02/22/24 13:59	1

Client Sample Results

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08

Lab Sample ID: 500-245277-40

Date Collected: 01/26/24 08:20

Matrix: Water

Date Received: 01/26/24 11:45

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	0.455		0.130	0.136	1.00	0.121	pCi/L	01/30/24 10:07	02/21/24 18:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					01/30/24 10:07	02/21/24 18:16	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	0.953		0.382	0.392	1.00	0.479	pCi/L	01/30/24 10:19	02/12/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					01/30/24 10:19	02/12/24 12:08	1
Y Carrier	87.5		30 - 110					01/30/24 10:19	02/12/24 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	1.41		0.404	0.415	5.00	0.479	pCi/L		02/22/24 13:59	1

Definitions/Glossary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-2
JEN-194580
SDG: HEN_000_RAD

Qualifiers

Rad

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
F1	MS and/or MSD recovery exceeds control limits.
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-2
SDG: HEN_000_RAD

Rad

Prep Batch: 645975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total/NA	Water	PrecSep-21	
500-245277-14	HEN_13	Total/NA	Water	PrecSep-21	
500-245277-15	HEN_16	Total/NA	Water	PrecSep-21	
500-245277-16	HEN_16_FD	Total/NA	Water	PrecSep-21	
500-245277-17	HEN_17	Total/NA	Water	PrecSep-21	
500-245277-18	HEN_23	Total/NA	Water	PrecSep-21	
500-245277-19	HEN_46	Total/NA	Water	PrecSep-21	
500-245277-20	HEN_47	Total/NA	Water	PrecSep-21	
500-245277-21	HEN_51	Total/NA	Water	PrecSep-21	
500-245277-22	HEN_52	Total/NA	Water	PrecSep-21	
500-245277-23	HEN_54	Total/NA	Water	PrecSep-21	
500-245277-24	HEN_54_FD	Total/NA	Water	PrecSep-21	
500-245277-25	HEN_FB	Total/NA	Water	PrecSep-21	
MB 160-645975/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-645975/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 645976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total/NA	Water	PrecSep_0	
500-245277-14	HEN_13	Total/NA	Water	PrecSep_0	
500-245277-15	HEN_16	Total/NA	Water	PrecSep_0	
500-245277-16	HEN_16_FD	Total/NA	Water	PrecSep_0	
500-245277-17	HEN_17	Total/NA	Water	PrecSep_0	
500-245277-18	HEN_23	Total/NA	Water	PrecSep_0	
500-245277-19	HEN_46	Total/NA	Water	PrecSep_0	
500-245277-20	HEN_47	Total/NA	Water	PrecSep_0	
500-245277-21	HEN_51	Total/NA	Water	PrecSep_0	
500-245277-22	HEN_52	Total/NA	Water	PrecSep_0	
500-245277-23	HEN_54	Total/NA	Water	PrecSep_0	
500-245277-24	HEN_54_FD	Total/NA	Water	PrecSep_0	
500-245277-25	HEN_FB	Total/NA	Water	PrecSep_0	
MB 160-645976/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-645976/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 645979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total/NA	Water	PrecSep-21	
500-245277-2	HEN_22	Total/NA	Water	PrecSep-21	
500-245277-3	HEN_22&D	Total/NA	Water	PrecSep-21	
500-245277-4	HEN_27	Total/NA	Water	PrecSep-21	
500-245277-5	HEN_32	Total/NA	Water	PrecSep-21	
500-245277-6	HEN_34	Total/NA	Water	PrecSep-21	
500-245277-7	HEN_35	Total/NA	Water	PrecSep-21	
500-245277-8	HEN_35_FD	Total/NA	Water	PrecSep-21	
500-245277-9	HEN_49	Total/NA	Water	PrecSep-21	
500-245277-10	HEN_50	Total/NA	Water	PrecSep-21	
MB 160-645979/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-645979/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-245277-1 MS	HEN_21R_MS	Total/NA	Water	PrecSep-21	
500-245277-1 MSD	HEN_21R_MSD	Total/NA	Water	PrecSep-21	
500-245277-9 MS	HEN_49_MS	Total/NA	Water	PrecSep-21	

Eurofins Chicago

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-2
SDG: HEN_000_RAD

Rad (Continued)

Prep Batch: 645979 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-9 MSD	HEN_49_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 645980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total/NA	Water	PrecSep_0	
500-245277-2	HEN_22	Total/NA	Water	PrecSep_0	
500-245277-3	HEN_22&D	Total/NA	Water	PrecSep_0	
500-245277-4	HEN_27	Total/NA	Water	PrecSep_0	
500-245277-5	HEN_32	Total/NA	Water	PrecSep_0	
500-245277-6	HEN_34	Total/NA	Water	PrecSep_0	
500-245277-7	HEN_35	Total/NA	Water	PrecSep_0	
500-245277-8	HEN_35_FD	Total/NA	Water	PrecSep_0	
500-245277-9	HEN_49	Total/NA	Water	PrecSep_0	
500-245277-10	HEN_50	Total/NA	Water	PrecSep_0	
MB 160-645980/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-645980/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-245277-1 MS	HEN_21R_MS	Total/NA	Water	PrecSep_0	
500-245277-1 MSD	HEN_21R_MSD	Total/NA	Water	PrecSep_0	
500-245277-9 MS	HEN_49_MS	Total/NA	Water	PrecSep_0	
500-245277-9 MSD	HEN_49_MSD	Total/NA	Water	PrecSep_0	

Prep Batch: 646070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-26	HEN_03R	Total/NA	Water	PrecSep-21	
500-245277-27	HEN_03R_FD	Total/NA	Water	PrecSep-21	
500-245277-30	HEN_08&D	Total/NA	Water	PrecSep-21	
500-245277-32	HEN_18#S	Total/NA	Water	PrecSep-21	
500-245277-33	HEN_18&D	Total/NA	Water	PrecSep-21	
500-245277-35	HEN_45#S	Total/NA	Water	PrecSep-21	
500-245277-36	HEN_XPW01_PORE	Total/NA	Water	PrecSep-21	
500-245277-37	HEN_XPW02_PORE	Total/NA	Water	PrecSep-21	
500-245277-38	HEN_XPW03_PORE	Total/NA	Water	PrecSep-21	
500-245277-39	HEN_07	Total/NA	Water	PrecSep-21	
500-245277-40	HEN_08	Total/NA	Water	PrecSep-21	
MB 160-646070/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-646070/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 646071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-26	HEN_03R	Total/NA	Water	PrecSep_0	
500-245277-27	HEN_03R_FD	Total/NA	Water	PrecSep_0	
500-245277-30	HEN_08&D	Total/NA	Water	PrecSep_0	
500-245277-32	HEN_18#S	Total/NA	Water	PrecSep_0	
500-245277-33	HEN_18&D	Total/NA	Water	PrecSep_0	
500-245277-35	HEN_45#S	Total/NA	Water	PrecSep_0	
500-245277-36	HEN_XPW01_PORE	Total/NA	Water	PrecSep_0	
500-245277-37	HEN_XPW02_PORE	Total/NA	Water	PrecSep_0	
500-245277-38	HEN_XPW03_PORE	Total/NA	Water	PrecSep_0	
500-245277-39	HEN_07	Total/NA	Water	PrecSep_0	
500-245277-40	HEN_08	Total/NA	Water	PrecSep_0	
MB 160-646071/1-A	Method Blank	Total/NA	Water	PrecSep_0	

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QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 590-245277-2
SDG: HEN_000_RAD

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

Rad (Continued)

Prep Batch: 646071 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-646071/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

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

QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-645975/1-A
Matrix: Water
Analysis Batch: 648921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645975

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.001936	U	0.0429	0.0429	1.00	0.0908	pCi/L	01/29/24 09:04	02/20/24 09:19	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		30 - 110					01/29/24 09:04	02/20/24 09:19	1

Lab Sample ID: LCS 160-645975/2-A
Matrix: Water
Analysis Batch: 648921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645975

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	11.19		1.14	1.00	0.104	pCi/L	99	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	96.9		30 - 110							

Lab Sample ID: MB 160-645979/1-A
Matrix: Water
Analysis Batch: 648923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645979

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04712	U	0.0692	0.0693	1.00	0.118	pCi/L	01/29/24 09:16	02/20/24 07:30	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		30 - 110					01/29/24 09:16	02/20/24 07:30	1

Lab Sample ID: LCS 160-645979/2-A
Matrix: Water
Analysis Batch: 648923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645979

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	11.03		1.14	1.00	0.0951	pCi/L	97	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	93.4		30 - 110							

Lab Sample ID: 500-245277-1 MS
Matrix: Water
Analysis Batch: 648923

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA
Prep Batch: 645979

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.989		22.9	25.36		2.88	1.00	0.584	pCi/L	106	60 - 140

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QC Sample Results

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

ATTACHMENT B.
1845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-245277-1 MS
Matrix: Water
Analysis Batch: 648923

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA
Prep Batch: 645979

	MS	MS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	39.4		30 - 110

Lab Sample ID: 500-245277-1 MSD
Matrix: Water
Analysis Batch: 648923

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA
Prep Batch: 645979

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.989		22.6	22.21		2.36	1.00	0.314	pCi/L	94	60 - 140	0.60	1
	MSD	MSD											
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	76.3		30 - 110										

Lab Sample ID: 500-245277-9 MS
Matrix: Water
Analysis Batch: 648923

Client Sample ID: HEN_49_MS
Prep Type: Total/NA
Prep Batch: 645979

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.352		15.2	16.29		1.80	1.00	0.226	pCi/L	105	60 - 140		
	MS	MS											
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	47.1		30 - 110										

Lab Sample ID: 500-245277-9 MSD
Matrix: Water
Analysis Batch: 648923

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
Prep Batch: 645979

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.352		15.0	13.19		1.40	1.00	0.181	pCi/L	85	60 - 140	0.97	1
	MSD	MSD											
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	87.0		30 - 110										

Lab Sample ID: MB 160-646070/1-A
Matrix: Water
Analysis Batch: 649031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646070

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0007762	U	0.0540	0.0540	1.00	0.112	pCi/L	01/30/24 10:07	02/21/24 09:26	1
	MB	MB								
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					01/30/24 10:07	02/21/24 09:26	1

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QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 590-245277-2
SDG: HEN_000_RAD

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

Lab Sample ID: LCS 160-646070/2-A
Matrix: Water
Analysis Batch: 649031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646070

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	12.38		1.28	1.00	0.0957	pCi/L	109	75 - 125
Carrier	%Yield	LCS Qualifier	Limits							
Ba Carrier	86.3		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-645976/1-A
Matrix: Water
Analysis Batch: 647133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645976

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2216	U	0.242	0.243	1.00	0.394	pCi/L	01/29/24 09:08	02/07/24 11:32	1
Carrier	%Yield	MB Qualifier	Limits							
Ba Carrier	97.2		30 - 110							
Y Carrier	84.5		30 - 110							

Lab Sample ID: LCS 160-645976/2-A
Matrix: Water
Analysis Batch: 647133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645976

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		9.23	9.352		1.24	1.00	0.429	pCi/L	101	75 - 125
Carrier	%Yield	LCS Qualifier	Limits							
Ba Carrier	96.9		30 - 110							
Y Carrier	84.1		30 - 110							

Lab Sample ID: MB 160-645980/1-A
Matrix: Water
Analysis Batch: 647494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645980

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.08091	U	0.321	0.321	1.00	0.583	pCi/L	01/29/24 09:19	02/09/24 12:13	1
Carrier	%Yield	MB Qualifier	Limits							
Ba Carrier	83.7		30 - 110							
Y Carrier	82.6		30 - 110							

QC Sample Results

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

ATTACHMENT B.
1845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

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

Lab Sample ID: LCS 160-645980/2-A
Matrix: Water
Analysis Batch: 647494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645980

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.23	9.609		1.31	1.00	0.474	pCi/L	104	75 - 125		
	LCS	LCS											
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	93.4		30 - 110										
Y Carrier	83.4		30 - 110										

Lab Sample ID: 500-245277-1 MS
Matrix: Water
Analysis Batch: 647494

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA
Prep Batch: 645980

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	-0.277	U F G	18.7	33.06	F1	5.16	1.00	2.69	pCi/L	177	60 - 140		
	MS	MS											
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	39.4		30 - 110										
Y Carrier	77.4		30 - 110										

Lab Sample ID: 500-245277-1 MSD
Matrix: Water
Analysis Batch: 647494

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA
Prep Batch: 645980

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	-0.277	U F G	18.4	23.84		3.39	1.00	1.47	pCi/L	129	60 - 140	1.08	1
	MSD	MSD											
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	76.3		30 - 110										
Y Carrier	71.4		30 - 110										

Lab Sample ID: 500-245277-9 MS
Matrix: Water
Analysis Batch: 647494

Client Sample ID: HEN_49_MS
Prep Type: Total/NA
Prep Batch: 645980

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.595	U G F	12.4	17.66		2.80	1.00	1.38	pCi/L	138	60 - 140		
	MS	MS											
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	47.1		30 - 110										
Y Carrier	75.9		30 - 110										

QC Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-245277-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-245277-9 MSD
Matrix: Water
Analysis Batch: 647494

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
Prep Batch: 645980

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.595	U G F	12.2	12.23	F	1.75	1.00	0.748	pCi/L	95	60 - 140	1.20	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	87.0		30 - 110										
Y Carrier	80.0		30 - 110										

Lab Sample ID: MB 160-646071/1-A
Matrix: Water
Analysis Batch: 647898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646071

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2745	U	0.275	0.276	1.00	0.441	pCi/L	01/30/24 10:19	02/12/24 11:55	1
Carrier	MB %Yield	MB Qualifier	Limits							
Ba Carrier	88.0		30 - 110							
Y Carrier	88.2		30 - 110							
								Prepared	Analyzed	Dil Fac
								01/30/24 10:19	02/12/24 11:55	1
								01/30/24 10:19	02/12/24 11:55	1

Lab Sample ID: LCS 160-646071/2-A
Matrix: Water
Analysis Batch: 647898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646071

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.22	10.05		1.34	1.00	0.482	pCi/L	109	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	86.3		30 - 110						
Y Carrier	87.9		30 - 110						

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_21R

Lab Sample ID: 500-245277-1

Date Collected: 01/23/24 12:40

Matrix: Water

Date Received: 01/24/24 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 07:30
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_22

Lab Sample ID: 500-245277-2

Date Collected: 01/23/24 15:20

Matrix: Water

Date Received: 01/24/24 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648924	FLC	EET SL	02/20/24 07:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_22&D

Lab Sample ID: 500-245277-3

Date Collected: 01/23/24 15:00

Matrix: Water

Date Received: 01/24/24 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_27

Lab Sample ID: 500-245277-4

Date Collected: 01/23/24 10:45

Matrix: Water

Date Received: 01/24/24 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_32

Date Collected: 01/23/24 09:30

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_34

Date Collected: 01/23/24 11:50

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_35

Date Collected: 01/23/24 13:40

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:24
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_35_FD

Date Collected: 01/23/24 13:40

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_49

Date Collected: 01/23/24 16:10

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_50

Date Collected: 01/23/24 16:10

Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647515	SCB	EET SL	02/09/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_12

Date Collected: 01/24/24 11:55

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:20
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_13

Date Collected: 01/24/24 12:41

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:20
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16

Date Collected: 01/24/24 10:55

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:20
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_16_FD

Date Collected: 01/24/24 10:55

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:21
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_17

Date Collected: 01/24/24 11:55

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:21
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_23

Date Collected: 01/24/24 08:35

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:22
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_46

Date Collected: 01/24/24 13:10

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:22
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_47

Date Collected: 01/24/24 14:30

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:22
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_51

Date Collected: 01/24/24 09:00

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:22
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_52

Date Collected: 01/24/24 10:25

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:32
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54

Date Collected: 01/24/24 13:57

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:32
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_54_FD

Date Collected: 01/24/24 13:57

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:32
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_FB

Date Collected: 01/24/24 16:10

Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:32
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:30
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_03R

Date Collected: 01/25/24 12:15

Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649033	FLC	EET SL	02/21/24 09:37
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R_FD

Lab Sample ID: 500-245277-27

Date Collected: 01/25/24 12:15

Matrix: Water

Date Received: 01/26/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649033	FLC	EET SL	02/21/24 09:37
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_08&D

Lab Sample ID: 500-245277-30

Date Collected: 01/25/24 13:05

Matrix: Water

Date Received: 01/26/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649033	FLC	EET SL	02/21/24 09:37
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_18#S

Lab Sample ID: 500-245277-32

Date Collected: 01/25/24 13:30

Matrix: Water

Date Received: 01/26/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649033	FLC	EET SL	02/21/24 09:37
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_18&D

Lab Sample ID: 500-245277-33

Date Collected: 01/25/24 14:40

Matrix: Water

Date Received: 01/26/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649033	FLC	EET SL	02/21/24 09:37
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:09
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_45#S

Lab Sample ID: 500-245277-35

Date Collected: 01/25/24 11:45

Matrix: Water

Date Received: 01/26/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649033	FLC	EET SL	02/21/24 09:37
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:09
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_XPW01_PORE

Lab Sample ID: 500-245277-36

Date Collected: 01/25/24 08:45

Matrix: Water

Date Received: 01/26/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649035	FLC	EET SL	02/21/24 09:32
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:09
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_XPW02_PORE

Lab Sample ID: 500-245277-37

Date Collected: 01/25/24 09:30

Matrix: Water

Date Received: 01/26/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649035	FLC	EET SL	02/21/24 09:32
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:09
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_XPW03_PORE

Lab Sample ID: 500-245277-38

Date Collected: 01/25/24 10:30

Matrix: Water

Date Received: 01/26/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649035	FLC	EET SL	02/21/24 09:32
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:09
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_07

Date Collected: 01/26/24 08:50

Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-39

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649035	FLC	EET SL	02/21/24 09:32
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_08

Date Collected: 01/26/24 08:20

Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-40

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649035	FLC	EET SL	02/21/24 18:16
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

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-24Q1

ATTACHMENT B.
15 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 590-245277-2
JEN-24-590-
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

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

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500-245277 COC

Project No./ Lab I D

SHORT HOLDS - NO2

SHORT HOLDS - NO2

SHORT HOLDS - N02

SHORT HOLDS - NO2

SHORT HOLDS NO2

SHORT HOLDS - NO2

SHORT HOLDS - NO2

SHORT HOLDS - NO2

SHORT HOLDS - NO2

SHORT HELDS NO3

SHORT HOLDS - NO2

MS/MSD

SAMPLE CONDITIONS

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on	y	s
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Received Date (Y/N)	Custodial Controlled Code (Y/N)	Sample Product (Y/N)
------------------------	---------------------------------------	-------------------------

Rec Ice	C Seal	Sa Inta
------------	-----------	------------

100

$$MP = 2.6 \rightarrow 2.$$

1.8 → 2.3

100 225

TEMP = 2.6 → 2.1, 3.7 → 3.2,
1.8 → 2.3

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		HENNEPIN COUNTY ENVIRONMENTAL SERVICES Page: 2 HEN-845-804																					
Company: Vistra Corp-Hennepin		Report To: Brian Voelker		Attention: Dave McCoy		<table border="1"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> <tr> <td>Site Location</td> <td>IL</td> <td></td> </tr> <tr> <td colspan="2">Requested Due Date/TAT: 10 day</td> <td colspan="2">Project Number: 50022619</td> <td colspan="2">Project Profile #:</td> <td colspan="2">STATE:</td> </tr> </table>		REGULATORY AGENCY			NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER	Site Location	IL		Requested Due Date/TAT: 10 day		Project Number: 50022619		Project Profile #:		STATE:	
REGULATORY AGENCY																											
NPDES	GROUND WATER	DRINKING WATER																									
UST	RCRA	OTHER																									
Site Location	IL																										
Requested Due Date/TAT: 10 day		Project Number: 50022619		Project Profile #:		STATE:																					
Address: 13498 E 800th St		Copy To: Jason Stuckey Jason.Stuckey@visracorp.com Sam Davies samantha.davies@visracorp.com		Company Name: A3 Environmental																							
Hennepin, IL 61327				Address: 3030 Warrenville Rd , Suite 418																							
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.		Warrenville, IL 60532																							
Phone: (217) 753-8911	Fax:	Project Name:		Project Manager																							

[illegible]

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information: Page 3 of 3

[illegible]

Temp: 4.4+3.9, 5.7+5.2, 5.6+5.1,
4.9+4.4

02/22/24

$$4.4 + 4.1, 3.8 + 3.3, 3.1 + 2.6, 3.2 + 2.7, 4.9 + 4.4$$

130

Page 1 of 3

581-245277

Σ 70 Σ 200

500-245277

Section A Required Client Information: **Section B** Required Project Information. **Section C** Invoice Information.

Ver: 06/08/2021

[illegible]

[illegible]

Eurofins Chicago

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

Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Sampler: Lab PM: Campbell, Donna L		Carrier Tracking No(s):		COC No: 500-184098.1	
Client Contact: Shipping/Receiving		Phone:		State of Origin: Illinois		Page 1 of 2	
Company: TestAmerica Laboratories, Inc.		Address: 13715 Ridler Trail North, City: Earth City, State, Zip: MO, 63045		E-Mail: Donna.Campbell@et.eurofins.com		Job #: 500-245277-1	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Email:		Accreditations Required (See note): NELAP - Illinois		Preservation Codes:	
Project Name: HEN-24Q1		PO #: WO #:		Due Date Requested: 2/6/2024		Analysis Requested:	
Site:		Project #: 50022619		TAT Requested (days):		Preservation Codes:	
SSOW#:		Matrix (W=water, S=solid, O=wastewater, ET=Etasol, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
HEN_12 (500-245277-13)		1/24/24		11:55 Central		Water	
HEN_13 (500-245277-14)		1/24/24		12:41 Central		Water	
HEN_16 (500-245277-15)		1/24/24		10:55 Central		Water	
HEN_16_FD (500-245277-16)		1/24/24		10:55 Central		Water	
HEN_17 (500-245277-17)		1/24/24		11:55 Central		Water	
HEN_23 (500-245277-18)		1/24/24		08:35 Central		Water	
HEN_46 (500-245277-19)		1/24/24		13:10 Central		Water	
HEN_47 (500-245277-20)		1/24/24		14:30 Central		Water	
HEN_51 (500-245277-21)		1/24/24		09:00 Central		Water	
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐ Disposal By Lab ☐		Archive For Months	
Possible Hazard Identification		Unconfirmed		Special Instructions/QC Requirements:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Time:		Date:	
Empty Kit Relinquished by:		Date/Time: 1/25/24 1440		Date/Time: 1/25/24 1440		Date/Time: 1/25/24 1440	
Relinquished by: [Signature]		Company: Richard Thomley		Company: Richard Thomley		Company: Richard Thomley	
Relinquished by: [Signature]		Company: [Blank]		Company: [Blank]		Company: [Blank]	
Relinquished by: [Signature]		Company: [Blank]		Company: [Blank]		Company: [Blank]	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	

Ver: 06/08/2021

Client Information (Sub Contract Lab)																																										
Client Contact Shipping/Receiving			Lab PM: Campbell, Donna L		Carrier Tracking No(s): 500-184142.1																																					
Company TestAmerica Laboratories, Inc.			E-Mail: Donna.Campbell@eurofins.com		Page: Page 1 of 4																																					
Address 13715 Rider Trail North, City Earth City State, Zip MO, 63045			Phone: 		Job # 500-245277-1																																					
Project Name HEN-24Q1			Accreditations Required (See note) NELAP - Illinois		Preservation Codes:																																					
Site: 					A - HCL M - Hexane B - NaOH N - None O - AsNaO2 C - Zn Acetate P - Na2O4S D - Nitric Acid Q - Na2SO3 R - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Z - other (specify) Other:																																					
Sample Identification - Client ID (Lab ID)			Analysis Requested							Special Instructions/Note:																																
			Due Date Requested: 2/6/2024		TAT Requested (days):		PO #		WO #		Project # 50022619		SSOW#		Total Number of Containers																											
			Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=organic)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		903.0/PrecSep_21 AJ		904.0/PrecSep_0 AJ		Ra226_228GFPC_P/AJ		903.0/PrecSep_21 AQ		904.0/PrecSep_0 AQ		Ra226_228GFPC_P/AQ		903.0/PrecSep_21 BB		904.0/PrecSep_0 BB		Ra226_228GFPC_P/BB		903.0/PrecSep_21 AL		904.0/PrecSep_0 AL		Ra226_228GFPC_P/L		903.0/PrecSep_21 AS			
HEN_03R (500-245277-26)			1/25/24		12:15 Central				Water		X		X		X		X		X		X		X		X		X		X		X		X		X		X		2			
HEN_03R_FD (500-245277-27)			1/25/24		12:15 Central				Water		X		X		X		X		X		X		X		X		X		X		X		X		X		X		2			
HEN_08&D (500-245277-30)			1/25/24		13:05 Central				Water		X		X		X		X		X		X		X		X		X		X		X		X		X		X		2			
HEN_18#S (500-245277-32)			1/25/24		13:30 Central				Water		X		X		X		X		X		X		X		X		X		X		X		X		X		X		2			
HEN_18&D (500-245277-33)			1/25/24		14:40 Central				Water		X		X		X		X		X		X		X		X		X		X		X		X		X		X		2			
HEN_45#S (500-245277-35)			1/25/24		11:45 Central				Water		X		X		X		X		X		X		X		X		X		X		X		X		X		X		2			
HEN_XPW01_PORE (500-245277-36)			1/25/24		08:45 Central				Water								X		X		X		X		X		X		X		X		X		X		X		2			
HEN_XPW02_PORE (500-245277-37)			1/25/24		09:30 Central				Water								X		X		X		X		X		X		X		X		X		X		X		2			
HEN_XPW03_PORE (500-245277-38)			1/25/24		10:30 Central				Water								X		X		X		X		X		X		X		X		X		X		X		2			
Note. Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.															Possible Hazard Identification Unconfirmed																											
Deliverable Requested: I, II, III, IV, Other (specify)															Primary Deliverable Rank: 2																											
Empty Kit Relinquished by:															Date:																											
Relinquished by:															Time:																											
Relinquished by:															Company:																											
Relinquished by:															Date/Time:																											
Relinquished by:															Date/Time:																											
Custody Seals Intact: Δ Yes Δ No															Custody Seal No.:																											

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
HEN-845-804

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-245277-2
SDG Number: HEN_000_RAD

Login Number: 245277

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1,3.2,2.3,3.9,5.2,5.1,4.4,4.1,3.3,2.6,2.7,4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
HEN-845-804

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-245277-2
SDG Number: HEN_000_RAD

Login Number: 245277

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 01/25/24 01:24 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	

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
HEN-845-804

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-245277-2
SDG Number: HEN_000_RAD

Login Number: 245277

List Number: 4

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 01/26/24 02:19 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	

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
HEN-845-804

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-245277-2
SDG Number: HEN_000_RAD

Login Number: 245277

List Number: 6

Creator: Korrinhizer, Micha L

List Source: Eurofins St. Louis

List Creation: 01/29/24 11:23 AM

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

Tracer/Carrier Summary

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-245277-2
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)	
500-245277-1	HEN_21R	61.8	
500-245277-1 MS	HEN_21R_MS	39.4	
500-245277-1 MSD	HEN_21R_MSD	76.3	
500-245277-2	HEN_22	90.1	
500-245277-3	HEN_22&D	81.7	
500-245277-4	HEN_27	78.4	
500-245277-5	HEN_32	81.2	
500-245277-6	HEN_34	77.9	
500-245277-7	HEN_35	73.0	
500-245277-8	HEN_35_FD	82.7	
500-245277-9	HEN_49	55.0	
500-245277-9 MS	HEN_49_MS	47.1	
500-245277-9 MSD	HEN_49_MSD	87.0	
500-245277-10	HEN_50	80.2	
500-245277-13	HEN_12	96.2	
500-245277-14	HEN_13	90.6	
500-245277-15	HEN_16	95.9	
500-245277-16	HEN_16_FD	93.9	
500-245277-17	HEN_17	92.4	
500-245277-18	HEN_23	84.2	
500-245277-19	HEN_46	95.4	
500-245277-20	HEN_47	101	
500-245277-21	HEN_51	85.8	
500-245277-22	HEN_52	96.2	
500-245277-23	HEN_54	98.5	
500-245277-24	HEN_54_FD	85.0	
500-245277-25	HEN_FB	92.4	
500-245277-26	HEN_03R	96.4	
500-245277-27	HEN_03R_FD	98.5	
500-245277-30	HEN_08&D	88.0	
500-245277-32	HEN_18#S	87.0	
500-245277-33	HEN_18&D	89.6	
500-245277-35	HEN_45#S	85.0	
500-245277-36	HEN_XPW01_PORE	34.1	
500-245277-37	HEN_XPW02_PORE	90.1	
500-245277-38	HEN_XPW03_PORE	94.9	
500-245277-39	HEN_07	98.2	
500-245277-40	HEN_08	88.0	
LCS 160-645975/2-A	Lab Control Sample	96.9	
LCS 160-645979/2-A	Lab Control Sample	93.4	
LCS 160-646070/2-A	Lab Control Sample	86.3	
MB 160-645975/1-A	Method Blank	97.2	
MB 160-645979/1-A	Method Blank	83.7	
MB 160-646070/1-A	Method Blank	88.0	

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 1, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

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

Job ID: 500-245277-2
SDG: HEN_000_RAD

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-245277-1	HEN_21R	61.8	84.1
500-245277-1 MS	HEN_21R_MS	39.4	77.4
500-245277-1 MSD	HEN_21R_MSD	76.3	71.4
500-245277-2	HEN_22	90.1	82.2
500-245277-3	HEN_22&D	81.7	76.6
500-245277-4	HEN_27	78.4	78.5
500-245277-5	HEN_32	81.2	76.3
500-245277-6	HEN_34	77.9	79.6
500-245277-7	HEN_35	73.0	71.0
500-245277-8	HEN_35_FD	82.7	78.9
500-245277-9	HEN_49	55.0	80.0
500-245277-9 MS	HEN_49_MS	47.1	75.9
500-245277-9 MSD	HEN_49_MSD	87.0	80.0
500-245277-10	HEN_50	80.2	75.1
500-245277-13	HEN_12	96.2	81.5
500-245277-14	HEN_13	90.6	84.9
500-245277-15	HEN_16	95.9	86.7
500-245277-16	HEN_16_FD	93.9	85.2
500-245277-17	HEN_17	92.4	84.5
500-245277-18	HEN_23	84.2	87.1
500-245277-19	HEN_46	95.4	81.1
500-245277-20	HEN_47	101	85.6
500-245277-21	HEN_51	85.8	81.1
500-245277-22	HEN_52	96.2	85.2
500-245277-23	HEN_54	98.5	75.9
500-245277-24	HEN_54_FD	85.0	80.4
500-245277-25	HEN_FB	92.4	84.9
500-245277-26	HEN_03R	96.4	87.5
500-245277-27	HEN_03R_FD	98.5	90.8
500-245277-30	HEN_08&D	88.0	93.8
500-245277-32	HEN_18#S	87.0	81.5
500-245277-33	HEN_18&D	89.6	84.9
500-245277-35	HEN_45#S	85.0	89.7
500-245277-36	HEN_XPW01_PORE	34.1	83.4
500-245277-37	HEN_XPW02_PORE	90.1	84.1
500-245277-38	HEN_XPW03_PORE	94.9	84.5
500-245277-39	HEN_07	98.2	81.9
500-245277-40	HEN_08	88.0	87.5
LCS 160-645976/2-A	Lab Control Sample	96.9	84.1
LCS 160-645980/2-A	Lab Control Sample	93.4	83.4
LCS 160-646071/2-A	Lab Control Sample	86.3	87.9
MB 160-645976/1-A	Method Blank	97.2	84.5
MB 160-645980/1-A	Method Blank	83.7	82.6
MB 160-646071/1-A	Method Blank	88.0	88.2

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

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

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
21/21R	UA	E004	Antimony, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.003	0.001
21/21R	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/23/24	30	0	CB around linear reg	0.0252	0.001
21/21R	UA	E004	Barium, total	mg/L	12/10/15 - 01/23/24	30	0	CB around linear reg	0.32	0.156
21/21R	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.001	0.001
21/21R	UA	E004	Boron, total	mg/L	12/10/15 - 01/23/24	31	0	CB around T-S line	1.89	0.205
21/21R	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.0005	0.001
21/21R	UA	E004	Chloride, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	98.8	108
21/21R	UA	E004	Chromium, total	mg/L	12/10/15 - 01/23/24	30	62	CB around T-S line	0.00173	0.00130
21/21R	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/23/24	30	69	CB around T-S line	0.001	0.00170
21/21R	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/23/24	31	9	CI around median	0.14	0.170
21/21R	UA	E004	Lead, total	mg/L	12/10/15 - 01/23/24	30	50	CB around T-S line	0.00167	0.001
21/21R	UA	E004	Lithium, total	mg/L	12/10/15 - 01/23/24	30	0	CB around linear reg	0.0216	0.0140
21/21R	UA	E004	Mercury, total	mg/L	12/10/15 - 01/23/24	30	97	CI around median	0.0002	0.0002
21/21R	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/23/24	30	3	CB around linear reg	0.00761	0.00200
21/21R	UA	E004	pH (field)	SU	12/10/15 - 01/23/24	33	0	CI around mean	7.3/7.5	6.7/7.4
21/21R	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/23/24	23	0	CI around mean	0.863	2.60
21/21R	UA	E004	Selenium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.0025	0.00110
21/21R	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	56.9	117
21/21R	UA	E004	Thallium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.002	0.001
21/21R	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/23/24	31	0	CB around T-S line	630	830
22	UA	E004	Antimony, total	mg/L	12/10/15 - 01/23/24	33	91	CB around T-S line	0.001	0.001
22	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/23/24	37	72	CI around median	0.001	0.001
22	UA	E004	Barium, total	mg/L	12/10/15 - 01/23/24	33	0	CI around median	0.063	0.156
22	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/23/24	33	100	All ND - Last	0.001	0.001
22	UA	E004	Boron, total	mg/L	12/10/15 - 01/23/24	38	0	CB around T-S line	3.12	0.205
22	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/23/24	33	9	CB around T-S line	0.00552	0.001
22	UA	E004	Chloride, total	mg/L	12/10/15 - 01/23/24	40	0	CB around T-S line	89.9	108

ATTACHMENT C.
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
22	UA	E004	Chromium, total	mg/L	12/10/15 - 01/23/24	33	100	All ND - Last	0.005	0.00130
22	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/23/24	33	9	CI around mean	0.00193	0.00170
22	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/23/24	33	5	CI around median	0.15	0.170
22	UA	E004	Lead, total	mg/L	12/10/15 - 01/23/24	33	97	CI around median	0.001	0.001
22	UA	E004	Lithium, total	mg/L	12/10/15 - 01/23/24	37	0	CB around T-S line	0.042	0.0140
22	UA	E004	Mercury, total	mg/L	12/10/15 - 01/23/24	31	100	All ND - Last	0.0002	0.0002
22	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/23/24	37	0	CB around T-S line	0.0661	0.00200
22	UA	E004	pH (field)	SU	12/10/15 - 01/23/24	36	0	CI around mean	7.5/7.7	6.7/7.4
22	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/23/24	24	0	CI around mean	0.375	2.60
22	UA	E004	Selenium, total	mg/L	12/10/15 - 01/23/24	33	6	CB around linear reg	0.015	0.00110
22	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/23/24	40	0	CB around linear reg	100	117
22	UA	E004	Thallium, total	mg/L	12/10/15 - 01/23/24	33	94	CB around T-S line	0.002	0.001
22	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/23/24	40	0	CB around linear reg	587	830
22D	UA	E004	Antimony, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.003	0.001
22D	UA	E004	Arsenic, total	mg/L	09/17/19 - 01/23/24	17	6	CI around median	0.0012	0.001
22D	UA	E004	Barium, total	mg/L	09/17/19 - 01/23/24	17	0	CB around T-S line	0.0662	0.156
22D	UA	E004	Beryllium, total	mg/L	09/17/19 - 01/23/24	16	100	All ND - Last	0.001	0.001
22D	UA	E004	Boron, total	mg/L	09/17/19 - 01/23/24	17	0	CB around linear reg	1.16	0.205
22D	UA	E004	Cadmium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.0005	0.001
22D	UA	E004	Chloride, total	mg/L	09/17/19 - 01/23/24	17	0	CB around linear reg	95.8	108
22D	UA	E004	Chromium, total	mg/L	09/17/19 - 01/23/24	17	88	CI around median	0.0015	0.00130
22D	UA	E004	Cobalt, total	mg/L	09/17/19 - 01/23/24	17	94	CI around median	0.001	0.00170
22D	UA	E004	Fluoride, total	mg/L	09/17/19 - 01/23/24	17	12	CI around median	0.11	0.170
22D	UA	E004	Lead, total	mg/L	09/17/19 - 01/23/24	17	88	CI around median	0.001	0.001
22D	UA	E004	Lithium, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	0.0147	0.0140
22D	UA	E004	Mercury, total	mg/L	12/11/19 - 01/23/24	16	100	All ND - Last	0.0002	0.0002
22D	UA	E004	Molybdenum, total	mg/L	09/17/19 - 01/23/24	17	6	CI around geomean	0.0066	0.00200

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
22D	UA	E004	pH (field)	SU	09/17/19 - 01/23/24	20	0	CI around mean	7.2/7.3	6.7/7.4
22D	UA	E004	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 01/23/24	14	0	CI around mean	0.665	2.60
22D	UA	E004	Selenium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.0025	0.00110
22D	UA	E004	Sulfate, total	mg/L	09/17/19 - 01/23/24	17	0	CB around linear reg	87.7	117
22D	UA	E004	Thallium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.002	0.001
22D	UA	E004	Total Dissolved Solids	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	605	830
23	UA	E004	Antimony, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.003	0.001
23	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/24/24	37	92	CB around T-S line	0.001	0.001
23	UA	E004	Barium, total	mg/L	12/10/15 - 01/24/24	33	0	CB around T-S line	0.0378	0.156
23	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.001	0.001
23	UA	E004	Boron, total	mg/L	12/10/15 - 01/24/24	38	0	CB around T-S line	8.23	0.205
23	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.0005	0.001
23	UA	E004	Chloride, total	mg/L	12/10/15 - 01/24/24	40	1	CB around T-S line	51.1	108
23	UA	E004	Chromium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.005	0.00130
23	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.001	0.00170
23	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/24/24	33	5	CI around median	0.15	0.170
23	UA	E004	Lead, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.0005	0.001
23	UA	E004	Lithium, total	mg/L	12/10/15 - 01/24/24	37	8	CI around median	0.0048	0.0140
23	UA	E004	Mercury, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.0002	0.0002
23	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/24/24	37	0	CI around median	0.0147	0.00200
23	UA	E004	pH (field)	SU	12/10/15 - 01/24/24	35	0	CI around mean	7.4/7.5	6.7/7.4
23	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/24/24	24	0	CI around mean	0.268	2.60
23	UA	E004	Selenium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.0025	0.00110
23	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/24/24	40	0	CI around median	421	117
23	UA	E004	Thallium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.002	0.001
23	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/24/24	40	0	CI around mean	886	830
24/51	UA	E004	Antimony, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.003	0.001

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
24/51	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/24/24	35	0	CI around mean	0.0204	0.001
24/51	UA	E004	Barium, total	mg/L	12/10/15 - 01/24/24	31	0	CB around linear reg	0.111	0.156
24/51	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.001	0.001
24/51	UA	E004	Boron, total	mg/L	12/10/15 - 01/24/24	36	0	CB around linear reg	1.34	0.205
24/51	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.0005	0.001
24/51	UA	E004	Chloride, total	mg/L	12/10/15 - 01/24/24	38	0	CB around linear reg	105	108
24/51	UA	E004	Chromium, total	mg/L	12/10/15 - 01/24/24	31	76	CB around T-S line	0.0015	0.00130
24/51	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/24/24	31	73	CI around median	0.001	0.00170
24/51	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/24/24	31	6	CB around T-S line	0.12	0.170
24/51	UA	E004	Lead, total	mg/L	12/10/15 - 01/24/24	31	64	CB around T-S line	0.001	0.001
24/51	UA	E004	Lithium, total	mg/L	12/10/15 - 01/24/24	35	0	CB around T-S line	0.0233	0.0140
24/51	UA	E004	Mercury, total	mg/L	12/10/15 - 01/24/24	30	100	All ND - Last	0.0002	0.0002
24/51	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/24/24	35	3	CI around mean	0.0098	0.00200
24/51	UA	E004	pH (field)	SU	12/10/15 - 01/24/24	33	0	CB around linear reg	7.2/7.4	6.7/7.4
24/51	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/24/24	23	0	CB around linear reg	1.33	2.60
24/51	UA	E004	Selenium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.0025	0.00110
24/51	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/24/24	38	0	CB around linear reg	81.8	117
24/51	UA	E004	Thallium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.002	0.001
24/51	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/24/24	38	0	CI around mean	619	830
27	UA	E004	Antimony, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.003	0.001
27	UA	E004	Arsenic, total	mg/L	09/12/18 - 01/23/24	20	59	CI around median	0.001	0.001
27	UA	E004	Barium, total	mg/L	09/12/18 - 01/23/24	20	0	CI around geomean	0.0843	0.156
27	UA	E004	Beryllium, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.001	0.001
27	UA	E004	Boron, total	mg/L	09/12/18 - 01/23/24	20	0	CB around linear reg	1.41	0.205
27	UA	E004	Cadmium, total	mg/L	09/12/18 - 01/23/24	20	96	CI around median	0.001	0.001
27	UA	E004	Chloride, total	mg/L	03/08/16 - 01/23/24	25	0	CB around T-S line	93.3	108
27	UA	E004	Chromium, total	mg/L	09/12/18 - 01/23/24	20	77	CI around median	0.0015	0.00130

ATTACHMENT C.
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
27	UA	E004	Cobalt, total	mg/L	09/12/18 - 01/23/24	20	9	CI around mean	0.00196	0.00170
27	UA	E004	Fluoride, total	mg/L	09/12/18 - 01/23/24	20	4	CI around median	0.12	0.170
27	UA	E004	Lead, total	mg/L	09/12/18 - 01/23/24	20	54	CI around median	0.001	0.001
27	UA	E004	Lithium, total	mg/L	09/12/18 - 01/23/24	20	0	CI around mean	0.0215	0.0140
27	UA	E004	Mercury, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.0002	0.0002
27	UA	E004	Molybdenum, total	mg/L	09/12/18 - 01/23/24	20	20	CI around median	0.0043	0.00200
27	UA	E004	pH (field)	SU	03/08/16 - 01/23/24	25	0	CI around mean	7.1/7.2	6.7/7.4
27	UA	E004	Radium 226 + Radium 228, total	pCi/L	09/12/18 - 01/23/24	14	0	CI around geomean	0.219	2.60
27	UA	E004	Selenium, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.0025	0.00110
27	UA	E004	Sulfate, total	mg/L	03/08/16 - 01/23/24	25	0	CI around geomean	121	117
27	UA	E004	Thallium, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.002	0.001
27	UA	E004	Total Dissolved Solids	mg/L	03/08/16 - 01/23/24	25	0	CI around median	638	830
35	UA	E004	Antimony, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.003	0.001
35	UA	E004	Arsenic, total	mg/L	12/09/15 - 01/23/24	32	78	CI around median	0.001	0.001
35	UA	E004	Barium, total	mg/L	12/09/15 - 01/23/24	32	0	CI around mean	0.0404	0.156
35	UA	E004	Beryllium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.001	0.001
35	UA	E004	Boron, total	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	10.6	0.205
35	UA	E004	Cadmium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.0005	0.001
35	UA	E004	Chloride, total	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	23.9	108
35	UA	E004	Chromium, total	mg/L	12/09/15 - 01/23/24	32	97	CB around T-S line	0.0015	0.00130
35	UA	E004	Cobalt, total	mg/L	12/09/15 - 01/23/24	32	41	CI around median	0.001	0.00170
35	UA	E004	Fluoride, total	mg/L	12/09/15 - 01/23/24	33	3	CI around median	0.17	0.170
35	UA	E004	Lead, total	mg/L	12/09/15 - 01/23/24	32	91	CI around median	0.001	0.001
35	UA	E004	Lithium, total	mg/L	12/09/15 - 01/23/24	32	0	CI around mean	0.0241	0.0140
35	UA	E004	Mercury, total	mg/L	12/09/15 - 01/23/24	31	100	All ND - Last	0.0002	0.0002
35	UA	E004	Molybdenum, total	mg/L	12/09/15 - 01/23/24	32	0	CI around mean	0.0658	0.00200
35	UA	E004	pH (field)	SU	12/09/15 - 01/23/24	33	0	CB around linear reg	6.8/7.0	6.7/7.4

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
35	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/23/24	25	0	CI around median	0.31	2.60
35	UA	E004	Selenium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.0025	0.00110
35	UA	E004	Sulfate, total	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	585	117
35	UA	E004	Thallium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.002	0.001
35	UA	E004	Total Dissolved Solids	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	1,170	830
49	UA	E004	Antimony, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.003	0.001
49	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/23/24	32	97	CI around median	0.001	0.001
49	UA	E004	Barium, total	mg/L	12/10/15 - 01/23/24	32	0	CB around T-S line	0.0613	0.156
49	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.001	0.001
49	UA	E004	Boron, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	0.457	0.205
49	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/23/24	32	28	CB around linear reg	0.0015	0.001
49	UA	E004	Chloride, total	mg/L	12/10/15 - 01/23/24	33	0	CI around median	100	108
49	UA	E004	Chromium, total	mg/L	12/10/15 - 01/23/24	32	97	CB around T-S line	0.0015	0.00130
49	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/23/24	32	0	CI around mean	0.00443	0.00170
49	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/23/24	33	3	CI around median	0.15	0.170
49	UA	E004	Lead, total	mg/L	12/10/15 - 01/23/24	32	91	CI around median	0.001	0.001
49	UA	E004	Lithium, total	mg/L	12/10/15 - 01/23/24	32	0	CB around linear reg	0.0215	0.0140
49	UA	E004	Mercury, total	mg/L	12/10/15 - 01/23/24	31	100	All ND - Last	0.0005	0.0002
49	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/23/24	32	0	CB around T-S line	0.0228	0.00200
49	UA	E004	pH (field)	SU	12/10/15 - 01/23/24	34	0	CI around mean	7.1/7.2	6.7/7.4
49	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/23/24	25	0	CI around mean	0.345	2.60
49	UA	E004	Selenium, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.0025	0.00110
49	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	69.3	117
49	UA	E004	Thallium, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.002	0.001
49	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	573	830
50	UA	E004	Antimony, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.003	0.001
50	UA	E004	Arsenic, total	mg/L	09/17/19 - 01/23/24	17	88	CI around median	0.001	0.001

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
50	UA	E004	Barium, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	0.0857	0.156
50	UA	E004	Beryllium, total	mg/L	09/17/19 - 01/23/24	16	100	All ND - Last	0.001	0.001
50	UA	E004	Boron, total	mg/L	09/17/19 - 01/23/24	17	0	CI around geomean	0.71	0.205
50	UA	E004	Cadmium, total	mg/L	09/17/19 - 01/23/24	17	6	CI around median	0.0012	0.001
50	UA	E004	Chloride, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	89.2	108
50	UA	E004	Chromium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.005	0.00130
50	UA	E004	Cobalt, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	0.00435	0.00170
50	UA	E004	Fluoride, total	mg/L	09/17/19 - 01/23/24	17	24	CB around T-S line	0.116	0.170
50	UA	E004	Lead, total	mg/L	09/17/19 - 01/23/24	17	94	CI around median	0.001	0.001
50	UA	E004	Lithium, total	mg/L	09/17/19 - 01/23/24	17	0	CI around median	0.0201	0.0140
50	UA	E004	Mercury, total	mg/L	12/11/19 - 01/23/24	16	100	All ND - Last	0.0002	0.0002
50	UA	E004	Molybdenum, total	mg/L	09/17/19 - 01/23/24	17	0	CB around T-S line	0.0297	0.00200
50	UA	E004	pH (field)	SU	09/17/19 - 01/23/24	20	0	CB around linear reg	7.3/7.6	6.7/7.4
50	UA	E004	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 01/23/24	13	0	CI around mean	0.584	2.60
50	UA	E004	Selenium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.0025	0.00110
50	UA	E004	Sulfate, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	87.4	117
50	UA	E004	Thallium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.002	0.001
50	UA	E004	Total Dissolved Solids	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	607	830

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

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

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