



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

November 5, 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 Ash Ponds No. 2 and No. 4; IEPA ID # W1550100002-04 and # W1550100002-07

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.610(b)(3)(D), Dynegy Midwest Generation, LLC is submitting groundwater monitoring data for the Quarter 3, 2024 sampling event at the Hennepin Power Plant Ash Ponds No. 2 and No. 4, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1550100002-04 and No. W1550100002-07. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine statistical exceedances of the GWPS.

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 3, 2024, Ash Ponds No. 2 and No. 4, Hennepin Power Plant, Hennepin, Illinois

35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 3, 2024
ASH PONDS NO. 2 AND NO. 4, HENNEPIN POWER PLANT, HENNEPIN, ILLINOIS

November 5, 2024

Samples were collected between July 15 and 16, 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 September 6, 2024.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 3, 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 3, 2024 sampling event.

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

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

TABLES

Table 1	Field Parameters and Analytical Results - Quarter 3, 2024
Table 2	Comparison of Statistical Results to GWPS - Quarter 3, 2024

FIGURES

Figure 1	Monitoring Well Location Map
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ATTACHMENTS

Attachment A	Groundwater Elevation Data - Quarter 3, 2024
Attachment B	Laboratory Reports and Field Data Sheets - Quarter 3, 2024
Attachment C	Comparison of Statistical Results to Background - Quarter 3, 2024

¹ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan Addendum for Ash Pond No. 2 and Ash Pond No. 4, Hennepin Power Plant, Hennepin, Illinois. October 25, 2021.*

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
07	Background	E006	07/15/2024	Antimony, total	0.0013 U	mg/L
07	Background	E006	07/15/2024	Arsenic, total	0.00023 U	mg/L
07	Background	E006	07/15/2024	Barium, total	0.170	mg/L
07	Background	E006	07/15/2024	Beryllium, total	0.00053 U	mg/L
07	Background	E006	07/15/2024	Boron, total	0.0930 J	mg/L
07	Background	E006	07/15/2024	Cadmium, total	0.00017 U	mg/L
07	Background	E006	07/15/2024	Calcium, total	170	mg/L
07	Background	E006	07/15/2024	Chloride, total	170	mg/L
07	Background	E006	07/15/2024	Chromium, total	0.0011 U	mg/L
07	Background	E006	07/15/2024	Cobalt, total	0.00230	mg/L
07	Background	E006	07/15/2024	Dissolved Oxygen	6.82	mg/L
07	Background	E006	07/15/2024	Fluoride, total	0.120	mg/L
07	Background	E006	07/15/2024	Lead, total	0.00019 U	mg/L
07	Background	E006	07/15/2024	Lithium, total	0.0130 J+	mg/L
07	Background	E006	07/15/2024	Mercury, total	0.000076 U	mg/L
07	Background	E006	07/15/2024	Molybdenum, total	0.0025 U	mg/L
07	Background	E006	07/15/2024	Oxidation Reduction Potential	192	mV
07	Background	E006	07/15/2024	pH (field)	6.7	SU
07	Background	E006	07/15/2024	Radium 226 + Radium 228, total	0.436	pCi/L
07	Background	E006	07/15/2024	Selenium, total	0.00098 U	mg/L
07	Background	E006	07/15/2024	Specific Conductance @ 25C (field)	1,662	micromhos/cm
07	Background	E006	07/15/2024	Sulfate, total	63.0	mg/L
07	Background	E006	07/15/2024	Temperature	16.4	degrees C
07	Background	E006	07/15/2024	Thallium, total	0.00057 U	mg/L
07	Background	E006	07/15/2024	Total Dissolved Solids	1,100	mg/L
07	Background	E006	07/15/2024	Turbidity, field	2.66	NTU
08	Background	E006	07/16/2024	Antimony, total	0.0013 U	mg/L
08	Background	E006	07/16/2024	Arsenic, total	0.00023 U	mg/L
08	Background	E006	07/16/2024	Barium, total	0.100	mg/L
08	Background	E006	07/16/2024	Beryllium, total	0.00053 U	mg/L
08	Background	E006	07/16/2024	Boron, total	0.0990 J+	mg/L
08	Background	E006	07/16/2024	Cadmium, total	0.0003 J	mg/L
08	Background	E006	07/16/2024	Calcium, total	180	mg/L
08	Background	E006	07/16/2024	Chloride, total	150	mg/L
08	Background	E006	07/16/2024	Chromium, total	0.0011 U	mg/L
08	Background	E006	07/16/2024	Cobalt, total	0.00120	mg/L
08	Background	E006	07/16/2024	Dissolved Oxygen	2.21	mg/L
08	Background	E006	07/16/2024	Fluoride, total	0.110	mg/L
08	Background	E006	07/16/2024	Lead, total	0.0005 UJ	mg/L
08	Background	E006	07/16/2024	Lithium, total	0.0110 J+	mg/L
08	Background	E006	07/16/2024	Mercury, total	0.000076 U	mg/L
08	Background	E006	07/16/2024	Molybdenum, total	0.0025 U	mg/L
08	Background	E006	07/16/2024	Oxidation Reduction Potential	189	mV
08	Background	E006	07/16/2024	pH (field)	6.7	SU
08	Background	E006	07/16/2024	Radium 226 + Radium 228, total	0.596	pCi/L
08	Background	E006	07/16/2024	Selenium, total	0.00098 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
08	Background	E006	07/16/2024	Specific Conductance @ 25C (field)	1,597	micromhos/cm
08	Background	E006	07/16/2024	Sulfate, total	110	mg/L
08	Background	E006	07/16/2024	Temperature	18.1	degrees C
08	Background	E006	07/16/2024	Thallium, total	0.00057 U	mg/L
08	Background	E006	07/16/2024	Total Dissolved Solids	870	mg/L
08	Background	E006	07/16/2024	Turbidity, field	1.78	NTU
08D	Background	E006	07/16/2024	Antimony, total	0.0013 U	mg/L
08D	Background	E006	07/16/2024	Arsenic, total	0.00023 U	mg/L
08D	Background	E006	07/16/2024	Barium, total	0.100	mg/L
08D	Background	E006	07/16/2024	Beryllium, total	0.00053 U	mg/L
08D	Background	E006	07/16/2024	Boron, total	0.100 J+	mg/L
08D	Background	E006	07/16/2024	Cadmium, total	0.000500	mg/L
08D	Background	E006	07/16/2024	Calcium, total	190	mg/L
08D	Background	E006	07/16/2024	Chloride, total	300	mg/L
08D	Background	E006	07/16/2024	Chromium, total	0.0011 U	mg/L
08D	Background	E006	07/16/2024	Cobalt, total	0.00310	mg/L
08D	Background	E006	07/16/2024	Dissolved Oxygen	0.280	mg/L
08D	Background	E006	07/16/2024	Fluoride, total	0.110	mg/L
08D	Background	E006	07/16/2024	Lead, total	0.0005 UJ	mg/L
08D	Background	E006	07/16/2024	Lithium, total	0.0160 J+	mg/L
08D	Background	E006	07/16/2024	Mercury, total	0.000076 U	mg/L
08D	Background	E006	07/16/2024	Molybdenum, total	0.0025 U	mg/L
08D	Background	E006	07/16/2024	Oxidation Reduction Potential	196	mV
08D	Background	E006	07/16/2024	pH (field)	6.7	SU
08D	Background	E006	07/16/2024	Radium 226 + Radium 228, total	0.418	pCi/L
08D	Background	E006	07/16/2024	Selenium, total	0.00098 U	mg/L
08D	Background	E006	07/16/2024	Specific Conductance @ 25C (field)	1,824	micromhos/cm
08D	Background	E006	07/16/2024	Sulfate, total	170	mg/L
08D	Background	E006	07/16/2024	Temperature	15.4	degrees C
08D	Background	E006	07/16/2024	Thallium, total	0.00057 U	mg/L
08D	Background	E006	07/16/2024	Total Dissolved Solids	1,300	mg/L
08D	Background	E006	07/16/2024	Turbidity, field	4.41	NTU
03R	Compliance	E006	07/16/2024	Antimony, total	0.0013 U	mg/L
03R	Compliance	E006	07/16/2024	Arsenic, total	0.00038 J	mg/L
03R	Compliance	E006	07/16/2024	Barium, total	0.0670	mg/L
03R	Compliance	E006	07/16/2024	Beryllium, total	0.00053 U	mg/L
03R	Compliance	E006	07/16/2024	Boron, total	0.710 J+	mg/L
03R	Compliance	E006	07/16/2024	Cadmium, total	0.00017 U	mg/L
03R	Compliance	E006	07/16/2024	Calcium, total	100	mg/L
03R	Compliance	E006	07/16/2024	Chloride, total	73.0	mg/L
03R	Compliance	E006	07/16/2024	Chromium, total	0.0011 U	mg/L
03R	Compliance	E006	07/16/2024	Cobalt, total	0.0004 U	mg/L
03R	Compliance	E006	07/16/2024	Dissolved Oxygen	0.200	mg/L
03R	Compliance	E006	07/16/2024	Fluoride, total	0.280	mg/L
03R	Compliance	E006	07/16/2024	Lead, total	0.00019 U	mg/L
03R	Compliance	E006	07/16/2024	Lithium, total	0.0200 J+	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
03R	Compliance	E006	07/16/2024	Mercury, total	0.000076 U	mg/L
03R	Compliance	E006	07/16/2024	Molybdenum, total	0.0850	mg/L
03R	Compliance	E006	07/16/2024	Oxidation Reduction Potential	81.0	mV
03R	Compliance	E006	07/16/2024	pH (field)	7.2	SU
03R	Compliance	E006	07/16/2024	Radium 226 + Radium 228, total	0.155	pCi/L
03R	Compliance	E006	07/16/2024	Selenium, total	0.0100	mg/L
03R	Compliance	E006	07/16/2024	Specific Conductance @ 25C (field)	792	micromhos/cm
03R	Compliance	E006	07/16/2024	Sulfate, total	98.0	mg/L
03R	Compliance	E006	07/16/2024	Temperature	18.2	degrees C
03R	Compliance	E006	07/16/2024	Thallium, total	0.00057 U	mg/L
03R	Compliance	E006	07/16/2024	Total Dissolved Solids	570	mg/L
03R	Compliance	E006	07/16/2024	Turbidity, field	4.88	NTU
18S	Compliance	E006	07/16/2024	Antimony, total	0.0013 U	mg/L
18S	Compliance	E006	07/16/2024	Arsenic, total	0.0005 J	mg/L
18S	Compliance	E006	07/16/2024	Barium, total	0.0610	mg/L
18S	Compliance	E006	07/16/2024	Beryllium, total	0.00053 U	mg/L
18S	Compliance	E006	07/16/2024	Boron, total	3.90	mg/L
18S	Compliance	E006	07/16/2024	Cadmium, total	0.00017 U	mg/L
18S	Compliance	E006	07/16/2024	Calcium, total	100	mg/L
18S	Compliance	E006	07/16/2024	Chloride, total	71.0	mg/L
18S	Compliance	E006	07/16/2024	Chromium, total	0.0011 U	mg/L
18S	Compliance	E006	07/16/2024	Cobalt, total	0.0004 U	mg/L
18S	Compliance	E006	07/16/2024	Dissolved Oxygen	0.210	mg/L
18S	Compliance	E006	07/16/2024	Fluoride, total	0.180	mg/L
18S	Compliance	E006	07/16/2024	Lead, total	0.00019 U	mg/L
18S	Compliance	E006	07/16/2024	Lithium, total	0.0550 J+	mg/L
18S	Compliance	E006	07/16/2024	Mercury, total	0.000076 U	mg/L
18S	Compliance	E006	07/16/2024	Molybdenum, total	0.150	mg/L
18S	Compliance	E006	07/16/2024	Oxidation Reduction Potential	147	mV
18S	Compliance	E006	07/16/2024	pH (field)	7.4	SU
18S	Compliance	E006	07/16/2024	Radium 226 + Radium 228, total	0.258	pCi/L
18S	Compliance	E006	07/16/2024	Selenium, total	0.0360	mg/L
18S	Compliance	E006	07/16/2024	Specific Conductance @ 25C (field)	811	micromhos/cm
18S	Compliance	E006	07/16/2024	Sulfate, total	180	mg/L
18S	Compliance	E006	07/16/2024	Temperature	17.9	degrees C
18S	Compliance	E006	07/16/2024	Thallium, total	0.00057 U	mg/L
18S	Compliance	E006	07/16/2024	Total Dissolved Solids	620	mg/L
18S	Compliance	E006	07/16/2024	Turbidity, field	4.50	NTU
18D	Compliance	E006	07/16/2024	Antimony, total	0.0013 U	mg/L
18D	Compliance	E006	07/16/2024	Arsenic, total	0.00035 J	mg/L
18D	Compliance	E006	07/16/2024	Barium, total	0.0650	mg/L
18D	Compliance	E006	07/16/2024	Beryllium, total	0.00053 U	mg/L
18D	Compliance	E006	07/16/2024	Boron, total	1.30	mg/L
18D	Compliance	E006	07/16/2024	Cadmium, total	0.00036 J	mg/L
18D	Compliance	E006	07/16/2024	Calcium, total	97.0	mg/L
18D	Compliance	E006	07/16/2024	Chloride, total	75.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
18D	Compliance	E006	07/16/2024	Chromium, total	0.0011 U	mg/L
18D	Compliance	E006	07/16/2024	Cobalt, total	0.00120	mg/L
18D	Compliance	E006	07/16/2024	Dissolved Oxygen	0.660	mg/L
18D	Compliance	E006	07/16/2024	Fluoride, total	0.160	mg/L
18D	Compliance	E006	07/16/2024	Lead, total	0.0005 UJ	mg/L
18D	Compliance	E006	07/16/2024	Lithium, total	0.0230 J+	mg/L
18D	Compliance	E006	07/16/2024	Mercury, total	0.000076 U	mg/L
18D	Compliance	E006	07/16/2024	Molybdenum, total	0.0310	mg/L
18D	Compliance	E006	07/16/2024	Oxidation Reduction Potential	159	mV
18D	Compliance	E006	07/16/2024	pH (field)	7.2	SU
18D	Compliance	E006	07/16/2024	Radium 226 + Radium 228, total	0.457	pCi/L
18D	Compliance	E006	07/16/2024	Selenium, total	0.0012 J	mg/L
18D	Compliance	E006	07/16/2024	Specific Conductance @ 25C (field)	785	micromhos/cm
18D	Compliance	E006	07/16/2024	Sulfate, total	100	mg/L
18D	Compliance	E006	07/16/2024	Temperature	18.5	degrees C
18D	Compliance	E006	07/16/2024	Thallium, total	0.00057 U	mg/L
18D	Compliance	E006	07/16/2024	Total Dissolved Solids	550	mg/L
18D	Compliance	E006	07/16/2024	Turbidity, field	8.88	NTU
45S	Compliance	E006	07/16/2024	Antimony, total	0.0013 U	mg/L
45S	Compliance	E006	07/16/2024	Arsenic, total	0.00027 J	mg/L
45S	Compliance	E006	07/16/2024	Barium, total	0.0870	mg/L
45S	Compliance	E006	07/16/2024	Beryllium, total	0.00053 U	mg/L
45S	Compliance	E006	07/16/2024	Boron, total	0.360	mg/L
45S	Compliance	E006	07/16/2024	Cadmium, total	0.00120	mg/L
45S	Compliance	E006	07/16/2024	Calcium, total	110	mg/L
45S	Compliance	E006	07/16/2024	Chloride, total	100	mg/L
45S	Compliance	E006	07/16/2024	Chromium, total	0.0011 U	mg/L
45S	Compliance	E006	07/16/2024	Cobalt, total	0.00240	mg/L
45S	Compliance	E006	07/16/2024	Dissolved Oxygen	0.170	mg/L
45S	Compliance	E006	07/16/2024	Fluoride, total	0.270	mg/L
45S	Compliance	E006	07/16/2024	Lead, total	0.0005 UJ	mg/L
45S	Compliance	E006	07/16/2024	Lithium, total	0.0130 J+	mg/L
45S	Compliance	E006	07/16/2024	Mercury, total	0.000076 U	mg/L
45S	Compliance	E006	07/16/2024	Molybdenum, total	0.0480	mg/L
45S	Compliance	E006	07/16/2024	Oxidation Reduction Potential	96.9	mV
45S	Compliance	E006	07/16/2024	pH (field)	7.1	SU
45S	Compliance	E006	07/16/2024	Radium 226 + Radium 228, total	0.375	pCi/L
45S	Compliance	E006	07/16/2024	Selenium, total	0.00098 U	mg/L
45S	Compliance	E006	07/16/2024	Specific Conductance @ 25C (field)	911	micromhos/cm
45S	Compliance	E006	07/16/2024	Sulfate, total	90.0	mg/L
45S	Compliance	E006	07/16/2024	Temperature	19.7	degrees C
45S	Compliance	E006	07/16/2024	Thallium, total	0.00057 U	mg/L
45S	Compliance	E006	07/16/2024	Total Dissolved Solids	600	mg/L
45S	Compliance	E006	07/16/2024	Turbidity, field	12.1	NTU

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Notes:

- C = Celsius
- cm = centimeter
- mg/L = milligrams per liter
- Missing Code (if applicable):
 - NR¹ = Select parameters were not analyzed.
 - NS¹ = This well has been, or will be, abandoned; therefore, a sample was not collected.
 - NS² = Well either needs or was undergoing maintenance, therefore, a sample was not collected.
 - NS³ = A sample was not collected because the location was inaccessible.
 - NS⁴ = The location could not be found, therefore a sample was not collected.
 - NS⁵ = A sample was not collected because of damage to the well.
 - NS⁶ = A sample was not collected because of pump issues.
 - NS⁷ = A sample was not collected because the well was either dry or was purged dry and did not recover.
 - PM¹ = Select parameters were not analyzed as the well purged dry during sample collection and did not sufficiently recover to sample for all parameters.
- mV = millivolts
- NTU = Nephelometric Turbidity Units
- pCi/L = picocuries per liter
- SU = Standard Units
- J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ = The result is an estimated quantity, but the result may be biased high.
- U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.
- UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
03R	UA	E006	Antimony, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.003	0.006	Standard	No Exceedance
03R	UA	E006	Arsenic, total	mg/L	12/09/15 - 07/16/24	28	100	All ND - Last	0.001	0.010	Standard	No Exceedance
03R	UA	E006	Barium, total	mg/L	12/09/15 - 07/16/24	30	0	CI around geomean	0.0623	2.0	Standard	No Exceedance
03R	UA	E006	Beryllium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.001	0.004	Standard	No Exceedance
03R	UA	E006	Boron, total	mg/L	12/09/15 - 07/16/24	34	0	CB around T-S line	0.428	2	Standard	No Exceedance
03R	UA	E006	Cadmium, total	mg/L	12/09/15 - 07/16/24	29	93	CB around T-S line	0.000615	0.005	Standard	No Exceedance
03R	UA	E006	Chloride, total	mg/L	12/09/15 - 07/16/24	34	0	CB around T-S line	76.5	435	Background	No Exceedance
03R	UA	E006	Chromium, total	mg/L	12/09/15 - 07/16/24	28	93	CB around T-S line	0.0015	0.1	Standard	No Exceedance
03R	UA	E006	Cobalt, total	mg/L	12/09/15 - 07/16/24	29	97	CI around median	0.001	0.0380	Background	No Exceedance
03R	UA	E006	Fluoride, total	mg/L	12/09/15 - 07/16/24	31	3	CI around median	0.27	4.0	Standard	No Exceedance
03R	UA	E006	Lead, total	mg/L	12/09/15 - 07/16/24	28	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
03R	UA	E006	Lithium, total	mg/L	12/09/15 - 07/16/24	33	0	CI around mean	0.0234	0.04	Standard	No Exceedance
03R	UA	E006	Mercury, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
03R	UA	E006	Molybdenum, total	mg/L	12/09/15 - 07/16/24	33	0	CB around linear reg	0.0731	0.1	Standard	No Exceedance
03R	UA	E006	pH (field)	SU	12/09/15 - 07/16/24	37	0	CI around median	7.2/7.3	6.5/9.0	Standard/Standard	No Exceedance
03R	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/16/24	28	0	CI around median	0.27	5	Standard	No Exceedance
03R	UA	E006	Selenium, total	mg/L	12/09/15 - 07/16/24	30	7	CI around mean	0.00472	0.05	Standard	No Exceedance
03R	UA	E006	Sulfate, total	mg/L	12/09/15 - 07/16/24	33	0	CB around linear reg	73	400	Standard	No Exceedance
03R	UA	E006	Thallium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.002	0.002	Standard	No Exceedance
03R	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 07/16/24	34	0	CI around mean	514	1,620	Background	No Exceedance
18S	UA	E006	Antimony, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.003	0.006	Standard	No Exceedance
18S	UA	E006	Arsenic, total	mg/L	12/09/15 - 07/16/24	28	97	CI around median	0.001	0.010	Standard	No Exceedance
18S	UA	E006	Barium, total	mg/L	12/09/15 - 07/16/24	30	0	CB around linear reg	0.051	2.0	Standard	No Exceedance
18S	UA	E006	Beryllium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.001	0.004	Standard	No Exceedance
18S	UA	E006	Boron, total	mg/L	12/09/15 - 07/16/24	34	0	CB around T-S line	1.06	2	Standard	No Exceedance
18S	UA	E006	Cadmium, total	mg/L	12/09/15 - 07/16/24	29	79	CB around T-S line	0.000562	0.005	Standard	No Exceedance
18S	UA	E006	Chloride, total	mg/L	12/09/15 - 07/16/24	34	0	CB around linear reg	68.9	435	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
18S	UA	E006	Chromium, total	mg/L	12/09/15 - 07/16/24	29	61	CI around median	0.0015	0.1	Standard	No Exceedance
18S	UA	E006	Cobalt, total	mg/L	12/09/15 - 07/16/24	29	85	CI around median	0.001	0.0380	Background	No Exceedance
18S	UA	E006	Fluoride, total	mg/L	12/09/15 - 07/16/24	31	3	CB around T-S line	0.167	4.0	Standard	No Exceedance
18S	UA	E006	Lead, total	mg/L	12/09/15 - 07/16/24	28	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
18S	UA	E006	Lithium, total	mg/L	12/09/15 - 07/16/24	33	0	CB around T-S line	0.0333	0.04	Standard	No Exceedance
18S	UA	E006	Mercury, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
18S	UA	E006	Molybdenum, total	mg/L	12/09/15 - 07/16/24	33	0	CB around linear reg	0.0828	0.1	Standard	No Exceedance
18S	UA	E006	pH (field)	SU	12/09/15 - 07/16/24	37	0	CI around median	7.3/7.4	6.5/9.0	Standard/Standard	No Exceedance
18S	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/16/24	28	0	CI around mean	0.352	5	Standard	No Exceedance
18S	UA	E006	Selenium, total	mg/L	12/09/15 - 07/16/24	30	3	CB around T-S line	0.00454	0.05	Standard	No Exceedance
18S	UA	E006	Sulfate, total	mg/L	12/09/15 - 07/16/24	34	0	CB around T-S line	81.8	400	Standard	No Exceedance
18S	UA	E006	Thallium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.002	0.002	Standard	No Exceedance
18S	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 07/16/24	34	0	CI around geomean	569	1,620	Background	No Exceedance
18D	UA	E006	Antimony, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.003	0.006	Standard	No Exceedance
18D	UA	E006	Arsenic, total	mg/L	12/09/15 - 07/16/24	28	97	CI around median	0.001	0.010	Standard	No Exceedance
18D	UA	E006	Barium, total	mg/L	12/09/15 - 07/16/24	30	0	CB around T-S line	0.0625	2.0	Standard	No Exceedance
18D	UA	E006	Beryllium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.001	0.004	Standard	No Exceedance
18D	UA	E006	Boron, total	mg/L	12/09/15 - 07/16/24	34	0	CB around linear reg	1.14	2	Standard	No Exceedance
18D	UA	E006	Cadmium, total	mg/L	12/09/15 - 07/16/24	29	94	CB around T-S line	0.000803	0.005	Standard	No Exceedance
18D	UA	E006	Chloride, total	mg/L	12/09/15 - 07/16/24	34	0	CI around mean	75.8	435	Background	No Exceedance
18D	UA	E006	Chromium, total	mg/L	12/09/15 - 07/16/24	28	94	CB around T-S line	0.0015	0.1	Standard	No Exceedance
18D	UA	E006	Cobalt, total	mg/L	12/09/15 - 07/16/24	30	3	CB around linear reg	-0.000149	0.0380	Background	No Exceedance
18D	UA	E006	Fluoride, total	mg/L	12/09/15 - 07/16/24	31	3	CI around median	0.15	4.0	Standard	No Exceedance
18D	UA	E006	Lead, total	mg/L	12/09/15 - 07/16/24	28	91	CB around T-S line	0.000905	0.0075	Standard	No Exceedance
18D	UA	E006	Lithium, total	mg/L	12/09/15 - 07/16/24	33	0	CB around linear reg	0.0227	0.04	Standard	No Exceedance
18D	UA	E006	Mercury, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
18D	UA	E006	Molybdenum, total	mg/L	12/09/15 - 07/16/24	33	0	CI around median	0.0315	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
18D	UA	E006	pH (field)	SU	12/09/15 - 07/16/24	37	0	CI around median	7.2/7.2	6.5/9.0	Standard/Standard	No Exceedance
18D	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/16/24	28	0	CI around mean	0.55	5	Standard	No Exceedance
18D	UA	E006	Selenium, total	mg/L	12/09/15 - 07/16/24	29	94	CB around T-S line	0.001	0.05	Standard	No Exceedance
18D	UA	E006	Sulfate, total	mg/L	12/09/15 - 07/16/24	34	0	CB around linear reg	85.9	400	Standard	No Exceedance
18D	UA	E006	Thallium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.002	0.002	Standard	No Exceedance
18D	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 07/16/24	34	0	CB around T-S line	477	1,620	Background	No Exceedance
45S	UA	E006	Antimony, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.003	0.006	Standard	No Exceedance
45S	UA	E006	Arsenic, total	mg/L	12/09/15 - 07/16/24	28	93	CI around median	0.001	0.010	Standard	No Exceedance
45S	UA	E006	Barium, total	mg/L	12/09/15 - 07/16/24	30	0	CB around linear reg	0.0799	2.0	Standard	No Exceedance
45S	UA	E006	Beryllium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.001	0.004	Standard	No Exceedance
45S	UA	E006	Boron, total	mg/L	12/09/15 - 07/16/24	31	0	CB around linear reg	0.218	2	Standard	No Exceedance
45S	UA	E006	Cadmium, total	mg/L	12/09/15 - 07/16/24	29	41	CB around linear reg	0.000587	0.005	Standard	No Exceedance
45S	UA	E006	Chloride, total	mg/L	12/09/15 - 07/16/24	31	0	CB around linear reg	87.1	435	Background	No Exceedance
45S	UA	E006	Chromium, total	mg/L	12/09/15 - 07/16/24	29	93	CB around T-S line	0.0015	0.1	Standard	No Exceedance
45S	UA	E006	Cobalt, total	mg/L	12/09/15 - 07/16/24	30	13	CI around geomean	0.00142	0.0380	Background	No Exceedance
45S	UA	E006	Fluoride, total	mg/L	12/09/15 - 07/16/24	31	3	CB around T-S line	0.242	4.0	Standard	No Exceedance
45S	UA	E006	Lead, total	mg/L	12/09/15 - 07/16/24	28	79	CI around median	0.001	0.0075	Standard	No Exceedance
45S	UA	E006	Lithium, total	mg/L	12/09/15 - 07/16/24	30	0	CB around linear reg	0.0109	0.04	Standard	No Exceedance
45S	UA	E006	Mercury, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
45S	UA	E006	Molybdenum, total	mg/L	12/09/15 - 07/16/24	30	0	CB around linear reg	0.0405	0.1	Standard	No Exceedance
45S	UA	E006	pH (field)	SU	12/09/15 - 07/16/24	31	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
45S	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/16/24	28	0	CI around geomean	0.508	5	Standard	No Exceedance
45S	UA	E006	Selenium, total	mg/L	12/09/15 - 07/16/24	29	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
45S	UA	E006	Sulfate, total	mg/L	12/09/15 - 07/16/24	31	0	CI around median	70	400	Standard	No Exceedance
45S	UA	E006	Thallium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.002	0.002	Standard	No Exceedance
45S	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 07/16/24	31	0	CI around mean	528	1,620	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Notes:

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

HSU = hydrostratigraphic unit:
 UA = Uppermost Aquifer

mg/L = milligrams per liter

Missing Code (if applicable):
 NR¹ = Select parameters were not analyzed.
 NS¹ = This well has been, or will be, abandoned; therefore, a sample was not collected.
 NS² = Well either needs or was undergoing maintenance, therefore, a sample was not collected.
 NS³ = A sample was not collected because the location was inaccessible.
 NS⁴ = The location could not be found, therefore a sample was not collected.
 NS⁵ = A sample was not collected because of damage to the well.
 NS⁶ = A sample was not collected because of pump issues.
 NS⁷ = A sample was not collected because the well was either dry or was purged dry and did not recover.
 PM¹ = Select parameters were not analyzed as the well purged dry during sample collection and did not sufficiently recover to sample for all parameters.

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

FIGURES



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

0 200 400
Feet

MONITORING WELL LOCATION
MAP

ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
GROUNDWATER ELEVATION DATA
QUARTER 3, 2024**

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
03R	Compliance	07/15/2024	35.04	447.05
07	Background	07/15/2024	67.77	450.50
08	Background	07/15/2024	53.25	447.93
08D	Background	07/15/2024	54.24	447.17
18S	Compliance	07/15/2024	40.60	447.08
18D	Compliance	07/15/2024	40.77	447.00
45S	Compliance	07/16/2024	20.26	447.43

Notes:
BMP = below measuring point
Missing Code (if applicable):
DM¹ = Depth to water was not measured.
DM² = Depth to water was not measured because water was above or below the staff gage markings.
DM³ = Depth to water was not measured because the location was inaccessible.
DM⁴ = Depth to water was not measured because water level was below the top of the pump.
DM⁵ = Depth to water was not measured because water level was above the top of casing (artesian well).
DM⁶ = Depth to water was not measured because of damage to the well.
DM⁷ = Depth to water was was not measured due to malfunctioning pressure transducer.
NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 3, 2024**

ANALYTICAL REPORT

PREPARED FOR

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

Generated 08/27/24 14:58:14

JOB DESCRIPTION

HEN-24Q3
HEN_845_802-805

JOB NUMBER

500-253560-7

Job Notes

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

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

Authorization



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08/27/24 14:58:14

Authorized for release by
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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
IN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Client: Vistra Energy Corp
Project: HEN-24Q3

Job ID: 500-253560-7

Job ID: 500-253560-7

Eurofins Chicago

Job Narrative 500-253560-7

Receipt

The samples were received on 07/16/24 13:05. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 18 coolers at receipt time were -0.2° C, 0.8° C, 0.9° C, 0.9° C, 1.6° C, 1.7° C, 3.1° C, 4.0° C, 4.2° C, 5.7° C, 5.7° C, 5.7° C, 5.9° C, 9.1° C, 11.3° C, 11.8° C, 11.8° C and 12.7° C.

Receipt Exceptions

The following samples from the July sampling event were received at the laboratory outside the required temperature criteria: HEN_17 (500-253560-24), HEN_21R (500-253560-25), HEN_21R_MS (500-253560-25[MS]), HEN_21R_MSD (500-253560-25[MSD]), HEN_22 (500-253560-26), HEN_22&D (500-253560-27), HEN_27 (500-253560-28), HEN_32 (500-253560-29), HEN_34 (500-253560-30), HEN_35 (500-253560-31), HEN_35_FD (500-253560-32), HEN_46 (500-253560-33), HEN_47 (500-253560-34), HEN_49 (500-253560-35), HEN_49_MS (500-253560-35[MS]), HEN_49_MSD (500-253560-35[MSD]), HEN_50 (500-253560-36), HEN_52 (500-253560-37), HEN_54 (500-253560-38) and HEN_54_FD (500-253560-39). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to cancel analysis, pending resampling.

Affected samples were recollected on 08/06/24 and added to the existing login to report together.

Method Field Sampling: Field Conductivity for the following samples was recorded on the field forms in ms (mmhos) instead of the usual us (umhos). Results have been converted to umhos to maintain consistency in reporting. HEN_07 (500-253560-1), HEN_03R (500-253560-5), HEN_03R_FD (500-253560-6), HEN_08&D (500-253560-10), HEN_18&D (500-253560-14), HEN_18#S (500-253560-15) and HEN_45#S (500-253560-17)

Metals

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

General Chemistry

Method SM 2320B: The method blank for analytical batch 500-779286 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.

Method 300.0: The method blank for analytical batch 500-779304 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

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Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client Sample ID: HEN_07

Lab Sample ID: 500-253560-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.013	B	0.010	0.0040	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.17		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.093	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	170		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0023		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	63		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	3.8		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	77		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	170	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	63		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	400		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1100		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.12		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	67.77				ft	1		Field Sampling	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA
Field Temperature	16.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	192.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.82				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1662				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.66				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_03R

Lab Sample ID: 500-253560-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.020	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00038	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.067		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.71	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	100		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	32		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.085		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	8.8		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.010		0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	55		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	73	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	98		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	570		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client Sample ID: HEN_03R (Continued)

Lab Sample ID: 500-253560-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.28		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	34.91				ft	1		Field Sampling	Total/NA
Field pH	7.21				SU	1		Field Sampling	Total/NA
Field Temperature	18.2				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	81.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.20				mg/L	1		Field Sampling	Total/NA
Specific Conductance	792				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.88				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_03R_FD

Lab Sample ID: 500-253560-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.022	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00033	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.060		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.65	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	92		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	29		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.077		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	8.1		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.010		0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	50		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	73	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	97		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	560		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.28		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	34.91				ft	1		Field Sampling	Total/NA
Field pH	7.21				SU	1		Field Sampling	Total/NA
Field Temperature	18.2				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	81.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.20				mg/L	1		Field Sampling	Total/NA
Specific Conductance	792				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.88				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08

Lab Sample ID: 500-253560-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.011	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.10		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.099	B	0.050	0.013	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-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN-24Q3-253560-7
SDG: HEN_845_802-805

Client Sample ID: HEN_08 (Continued)

Lab Sample ID: 500-253560-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Cadmium	0.00030	J	0.00050	0.00017	mg/L	1			6020B	Total Recoverable
Calcium	180		0.20	0.044	mg/L	1			6020B	Total Recoverable
Cobalt	0.0012		0.0010	0.00040	mg/L	1			6020B	Total Recoverable
Lead	0.00023	J	0.00050	0.00019	mg/L	1			6020B	Total Recoverable
Magnesium	50		0.20	0.049	mg/L	1			6020B	Total Recoverable
Potassium	7.7		0.50	0.11	mg/L	1			6020B	Total Recoverable
Sodium	58		0.20	0.077	mg/L	1			6020B	Total Recoverable
Chloride	150	B	10	1.2	mg/L	10			300.0	Total/NA
Sulfate	110		10	2.1	mg/L	10			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	480	B	5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	870		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)	53.62				ft	1			Field Sampling	Total/NA
Field pH	6.65				SU	1			Field Sampling	Total/NA
Field Temperature	18.1				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	189.4				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	2.21				mg/L	1			Field Sampling	Total/NA
Specific Conductance	1597				umhos/cm	1			Field Sampling	Total/NA
Turbidity	1.78				NTU	1			Field Sampling	Total/NA

Client Sample ID: HEN_08&D

Lab Sample ID: 500-253560-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.016	B	0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total Recoverable
Barium	0.10		0.0025	0.00073	mg/L	1			6020B	Total Recoverable
Boron	0.10	B	0.050	0.013	mg/L	1			6020B	Total Recoverable
Cadmium	0.00050		0.00050	0.00017	mg/L	1			6020B	Total Recoverable
Calcium	190		0.20	0.044	mg/L	1			6020B	Total Recoverable
Cobalt	0.0031		0.0010	0.00040	mg/L	1			6020B	Total Recoverable
Lead	0.00036	J	0.00050	0.00019	mg/L	1			6020B	Total Recoverable
Magnesium	57		0.20	0.049	mg/L	1			6020B	Total Recoverable
Potassium	4.0		0.50	0.11	mg/L	1			6020B	Total Recoverable
Sodium	160		0.20	0.077	mg/L	1			6020B	Total Recoverable
Chloride	300	B	10	1.2	mg/L	10			300.0	Total/NA
Sulfate	170		10	2.1	mg/L	10			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	490	B	5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	1300		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)	54.09				ft	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-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client Sample ID: HEN_08&D (Continued)

Lab Sample ID: 500-253560-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.69				SU	1		Field Sampling	Total/NA
Field Temperature	15.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	195.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.28				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1824				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.41				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_18&D

Lab Sample ID: 500-253560-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.023	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00035	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.065		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.3	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00036	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	97		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0012		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00028	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	31		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.031		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	8.9		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0012	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	46		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	75	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	100		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	260	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	550		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.16		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	40.45				ft	1		Field Sampling	Total/NA
Field pH	7.17				SU	1		Field Sampling	Total/NA
Field Temperature	18.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	159.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.66				mg/L	1		Field Sampling	Total/NA
Specific Conductance	785				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.88				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_18#S

Lab Sample ID: 500-253560-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.055	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00050	J	0.0010	0.00023	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-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client Sample ID: HEN_18#S (Continued)

Lab Sample ID: 500-253560-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.061		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	3.9	B	0.25	0.064	mg/L	5		6020B	Total Recoverable
Calcium	100		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	27		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.15		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	11		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.036		0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	44		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	71	B	10	1.2	mg/L	10		300.0	Total/NA
Sulfate	180		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	210	B	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	0.18		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	40.39				ft	1		Field Sampling	Total/NA
Field pH	7.37				SU	1		Field Sampling	Total/NA
Field Temperature	17.9				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	147.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.21				mg/L	1		Field Sampling	Total/NA
Specific Conductance	811				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.50				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_45#S

Lab Sample ID: 500-253560-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.013	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00027	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.087		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.36	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.0012		0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	110		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0024		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00037	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	37		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.048		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	7.0		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	63		0.20	0.077	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-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN_845_802-805
SDG: HEN_845_802-805

Client Sample ID: HEN_45#S (Continued)

Lab Sample ID: 500-253560-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	100		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	90		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	310	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	600		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.27		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	20.26				ft	1		Field Sampling	Total/NA
Field pH	7.07				SU	1		Field Sampling	Total/NA
Field Temperature	19.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	96.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.17				mg/L	1		Field Sampling	Total/NA
Specific Conductance	911				umhos/cm	1		Field Sampling	Total/NA
Turbidity	12.12				NTU	1		Field Sampling	Total/NA

Client Sample ID: FB

Lab Sample ID: 500-253560-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0020	J B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Boron	0.020	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Lead	0.00030	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Sodium	0.12	J	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	0.21	J	1.0	0.12	mg/L	1		300.0	Total/NA
Total Dissolved Solids	6.0	J	10	4.3	mg/L	1		SM 2540C	Total/NA

Client Sample ID: HEN_YSG_ILRIVER

Lab Sample ID: 500-253560-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	5.25				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-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-253560-7
HEN-24-802-805
SDG: HEN_845_802-805

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-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-253560-1	HEN_07	Water	07/15/24 15:20	07/16/24 13:05
500-253560-5	HEN_03R	Water	07/16/24 09:53	07/17/24 09:40
500-253560-6	HEN_03R_FD	Water	07/16/24 09:53	07/17/24 09:40
500-253560-9	HEN_08	Water	07/16/24 14:00	07/17/24 09:40
500-253560-10	HEN_08&D	Water	07/16/24 15:46	07/17/24 09:40
500-253560-14	HEN_18&D	Water	07/16/24 13:17	07/17/24 09:40
500-253560-15	HEN_18#S	Water	07/16/24 12:06	07/17/24 09:40
500-253560-17	HEN_45#S	Water	07/16/24 08:42	07/17/24 09:40
500-253560-22	FB	Water	07/18/24 08:00	07/18/24 13:00
500-253560-49	HEN_YSG_ILRIVER	Water	07/15/24 12:30	07/16/24 13:05

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client Sample ID: HEN_07

Date Collected: 07/15/24 15:20

Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.013	B	0.010	0.0040	mg/L		07/30/24 08:33	07/31/24 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 14:33	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 14:33	1
Barium	0.17		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 14:33	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 13:32	1
Boron	0.093	B	0.050	0.013	mg/L		07/22/24 15:20	07/23/24 13:32	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 14:33	1
Calcium	170		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 14:33	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 14:33	1
Cobalt	0.0023		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 13:32	1
Lead	<0.00050		0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 14:33	1
Magnesium	63		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 14:33	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 14:33	1
Potassium	3.8		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 14:33	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 14:33	1
Sodium	77		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 13:32	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 14:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/29/24 11:55	07/30/24 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	170	B	5.0	0.58	mg/L			07/31/24 21:24	5
Sulfate (EPA 300.0)	63		5.0	1.0	mg/L			07/31/24 21:24	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	400		5.0	3.7	mg/L			07/19/24 19:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/19/24 19:51	1
Total Dissolved Solids (SM 2540C)	1100		10	4.3	mg/L			07/18/24 00:54	1
Fluoride (SM 4500 F C)	0.12		0.10	0.056	mg/L			08/08/24 14:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	67.77				ft			07/15/24 15:20	1
Field pH	6.65				SU			07/15/24 15:20	1
Field Temperature	16.4				Degrees C			07/15/24 15:20	1
Oxidation Reduction Potential	192.1				millivolts			07/15/24 15:20	1
Oxygen, Dissolved	6.82				mg/L			07/15/24 15:20	1
Specific Conductance	1662				umhos/cm			07/15/24 15:20	1
Turbidity	2.66				NTU			07/15/24 15:20	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client Sample ID: HEN_03R

Lab Sample ID: 500-253560-5

Date Collected: 07/16/24 09:53

Matrix: Water

Date Received: 07/17/24 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.020	B	0.0050	0.0020	mg/L		07/30/24 08:33	07/31/24 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 14:53	1
Arsenic	0.00038	J	0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 14:53	1
Barium	0.067		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 14:53	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 13:52	1
Boron	0.71	B	0.050	0.013	mg/L		07/22/24 15:20	07/23/24 13:52	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 14:53	1
Calcium	100		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 14:53	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 14:53	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 13:52	1
Lead	<0.00050		0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 14:53	1
Magnesium	32		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 14:53	1
Molybdenum	0.085		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 14:53	1
Potassium	8.8		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 14:53	1
Selenium	0.010		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 14:53	1
Sodium	55		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 13:52	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 14:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/29/24 11:55	07/30/24 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	73	B	5.0	0.58	mg/L			07/31/24 23:45	5
Sulfate (EPA 300.0)	98		5.0	1.0	mg/L			07/31/24 23:45	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	260		5.0	3.7	mg/L			07/19/24 20:23	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/19/24 20:23	1
Total Dissolved Solids (SM 2540C)	570		10	4.3	mg/L			07/22/24 20:55	1
Fluoride (SM 4500 F C)	0.28		0.10	0.056	mg/L			07/23/24 14:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	34.91				ft			07/16/24 09:53	1
Field pH	7.21				SU			07/16/24 09:53	1
Field Temperature	18.2				Degrees C			07/16/24 09:53	1
Oxidation Reduction Potential	81.0				millivolts			07/16/24 09:53	1
Oxygen, Dissolved	0.20				mg/L			07/16/24 09:53	1
Specific Conductance	792				umhos/cm			07/16/24 09:53	1
Turbidity	4.88				NTU			07/16/24 09:53	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client Sample ID: HEN_03R_FD

Lab Sample ID: 500-253560-6

Date Collected: 07/16/24 09:53

Matrix: Water

Date Received: 07/17/24 09:40

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	B	0.0050	0.0020	mg/L		07/30/24 08:33	07/31/24 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 14:56	1
Arsenic	0.00033	J	0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 14:56	1
Barium	0.060		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 14:56	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 13:54	1
Boron	0.65	B	0.050	0.013	mg/L		07/22/24 15:20	07/23/24 13:54	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 14:56	1
Calcium	92		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 14:56	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 14:56	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 13:54	1
Lead	<0.00050		0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 14:56	1
Magnesium	29		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 14:56	1
Molybdenum	0.077		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 14:56	1
Potassium	8.1		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 14:56	1
Selenium	0.010		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 14:56	1
Sodium	50		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 13:54	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 14:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/29/24 11:55	07/30/24 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	73	B	5.0	0.58	mg/L			08/01/24 02:37	5
Sulfate (EPA 300.0)	97		5.0	1.0	mg/L			08/01/24 02:37	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	260		5.0	3.7	mg/L			07/19/24 20:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/19/24 20:33	1
Total Dissolved Solids (SM 2540C)	560		10	4.3	mg/L			07/22/24 20:58	1
Fluoride (SM 4500 F C)	0.28		0.10	0.056	mg/L			07/23/24 14:06	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	34.91				ft			07/16/24 09:53	1
Field pH	7.21				SU			07/16/24 09:53	1
Field Temperature	18.2				Degrees C			07/16/24 09:53	1
Oxidation Reduction Potential	81.0				millivolts			07/16/24 09:53	1
Oxygen, Dissolved	0.20				mg/L			07/16/24 09:53	1
Specific Conductance	792				umhos/cm			07/16/24 09:53	1
Turbidity	4.88				NTU			07/16/24 09:53	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN-24Q3-2024-005
SDG: HEN_845_802-805

Client Sample ID: HEN_08

Date Collected: 07/16/24 14:00

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.011	B	0.0050	0.0020	mg/L		07/30/24 08:33	07/31/24 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 15:02	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 15:02	1
Barium	0.10		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 15:02	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 14:06	1
Boron	0.099	B	0.050	0.013	mg/L		07/22/24 15:20	07/25/24 11:01	1
Cadmium	0.00030	J	0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 15:02	1
Calcium	180		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 15:02	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 15:02	1
Cobalt	0.0012		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 14:06	1
Lead	0.00023	J	0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 15:02	1
Magnesium	50		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 15:02	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 15:02	1
Potassium	7.7		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 15:02	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 15:02	1
Sodium	58		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 14:06	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 15:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/30/24 11:35	07/31/24 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	150	B	10	1.2	mg/L			08/01/24 03:55	10
Sulfate (EPA 300.0)	110		10	2.1	mg/L			08/01/24 03:55	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	480	B	5.0	3.7	mg/L			07/30/24 18:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/30/24 18:16	1
Total Dissolved Solids (SM 2540C)	870		10	4.3	mg/L			07/22/24 21:06	1
Fluoride (SM 4500 F C)	0.11		0.10	0.056	mg/L			07/23/24 14:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	53.62				ft			07/16/24 14:00	1
Field pH	6.65				SU			07/16/24 14:00	1
Field Temperature	18.1				Degrees C			07/16/24 14:00	1
Oxidation Reduction Potential	189.4				millivolts			07/16/24 14:00	1
Oxygen, Dissolved	2.21				mg/L			07/16/24 14:00	1
Specific Conductance	1597				umhos/cm			07/16/24 14:00	1
Turbidity	1.78				NTU			07/16/24 14:00	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client Sample ID: HEN_08&D

Lab Sample ID: 500-253560-10

Date Collected: 07/16/24 15:46

Matrix: Water

Date Received: 07/17/24 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.016	B	0.0050	0.0020	mg/L		07/30/24 08:33	07/31/24 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		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 15:05	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 15:05	1
Barium	0.10		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 15:05	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 14:08	1
Boron	0.10	B	0.050	0.013	mg/L		07/22/24 15:20	07/25/24 11:03	1
Cadmium	0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 15:05	1
Calcium	190		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 15:05	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 15:05	1
Cobalt	0.0031		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 14:08	1
Lead	0.00036	J	0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 15:05	1
Magnesium	57		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 15:05	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 15:05	1
Potassium	4.0		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 15:05	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 15:05	1
Sodium	160		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 14:08	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 15:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/30/24 11:35	07/31/24 08:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	300	B	10	1.2	mg/L			08/01/24 04:26	10
Sulfate (EPA 300.0)	170		10	2.1	mg/L			08/01/24 04:26	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	490	B	5.0	3.7	mg/L			07/30/24 18:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/30/24 18:26	1
Total Dissolved Solids (SM 2540C)	1300		10	4.3	mg/L			07/22/24 21:08	1
Fluoride (SM 4500 F C)	0.11		0.10	0.056	mg/L			07/23/24 14:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	54.09				ft			07/16/24 15:46	1
Field pH	6.69				SU			07/16/24 15:46	1
Field Temperature	15.4				Degrees C			07/16/24 15:46	1
Oxidation Reduction Potential	195.6				millivolts			07/16/24 15:46	1
Oxygen, Dissolved	0.28				mg/L			07/16/24 15:46	1
Specific Conductance	1824				umhos/cm			07/16/24 15:46	1
Turbidity	4.41				NTU			07/16/24 15:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client Sample ID: HEN_18&D

Lab Sample ID: 500-253560-14

Date Collected: 07/16/24 13:17

Matrix: Water

Date Received: 07/17/24 09:40

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	B	0.0050	0.0020	mg/L		07/30/24 08:33	07/31/24 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 15:16	1
Arsenic	0.00035	J	0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 15:16	1
Barium	0.065		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 15:16	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 14:15	1
Boron	1.3	B	0.050	0.013	mg/L		07/22/24 15:20	07/25/24 11:09	1
Cadmium	0.00036	J	0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 15:16	1
Calcium	97		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 15:16	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 15:16	1
Cobalt	0.0012		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 14:15	1
Lead	0.00028	J	0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 15:16	1
Magnesium	31		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 15:16	1
Molybdenum	0.031		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 15:16	1
Potassium	8.9		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 15:16	1
Selenium	0.0012	J	0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 15:16	1
Sodium	46		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 14:15	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 15:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/30/24 11:35	07/31/24 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	75	B	5.0	0.58	mg/L			08/01/24 06:16	5
Sulfate (EPA 300.0)	100		5.0	1.0	mg/L			08/01/24 06:16	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	260	B	5.0	3.7	mg/L			07/30/24 19:22	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/30/24 19:22	1
Total Dissolved Solids (SM 2540C)	550		10	4.3	mg/L			07/22/24 21:19	1
Fluoride (SM 4500 F C)	0.16		0.10	0.056	mg/L			08/08/24 15:35	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	40.45				ft			07/16/24 13:17	1
Field pH	7.17				SU			07/16/24 13:17	1
Field Temperature	18.5				Degrees C			07/16/24 13:17	1
Oxidation Reduction Potential	159.4				millivolts			07/16/24 13:17	1
Oxygen, Dissolved	0.66				mg/L			07/16/24 13:17	1
Specific Conductance	785				umhos/cm			07/16/24 13:17	1
Turbidity	8.88				NTU			07/16/24 13:17	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client Sample ID: HEN_18#S

Lab Sample ID: 500-253560-15

Date Collected: 07/16/24 12:06

Matrix: Water

Date Received: 07/17/24 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.055	B	0.0050	0.0020	mg/L		07/30/24 08:33	07/31/24 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 15:18	1
Arsenic	0.00050	J	0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 15:18	1
Barium	0.061		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 15:18	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 14:17	1
Boron	3.9	B	0.25	0.064	mg/L		07/22/24 15:20	07/25/24 11:12	5
Cadmium	<0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 15:18	1
Calcium	100		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 15:18	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 15:18	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 14:17	1
Lead	<0.00050		0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 15:18	1
Magnesium	27		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 15:18	1
Molybdenum	0.15		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 15:18	1
Potassium	11		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 15:18	1
Selenium	0.036		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 15:18	1
Sodium	44		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 14:17	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 15:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/30/24 11:35	07/31/24 08:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	71	B	10	1.2	mg/L			08/01/24 06:47	10
Sulfate (EPA 300.0)	180		10	2.1	mg/L			08/01/24 06:47	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	210	B	5.0	3.7	mg/L			07/30/24 19:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/30/24 19:35	1
Total Dissolved Solids (SM 2540C)	620		10	4.3	mg/L			07/22/24 21:21	1
Fluoride (SM 4500 F C)	0.18		0.10	0.056	mg/L			08/08/24 15:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	40.39				ft			07/16/24 12:06	1
Field pH	7.37				SU			07/16/24 12:06	1
Field Temperature	17.9				Degrees C			07/16/24 12:06	1
Oxidation Reduction Potential	147.2				millivolts			07/16/24 12:06	1
Oxygen, Dissolved	0.21				mg/L			07/16/24 12:06	1
Specific Conductance	811				umhos/cm			07/16/24 12:06	1
Turbidity	4.50				NTU			07/16/24 12:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN-24Q3-2024-005
SDG: HEN_845_802-805

Client Sample ID: HEN_45#S

Lab Sample ID: 500-253560-17

Date Collected: 07/16/24 08:42

Matrix: Water

Date Received: 07/17/24 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.013	B	0.0050	0.0020	mg/L		07/30/24 08:33	07/31/24 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 15:23	1
Arsenic	0.00027	J	0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 15:23	1
Barium	0.087		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 15:23	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 14:21	1
Boron	0.36	B	0.050	0.013	mg/L		07/22/24 15:20	07/25/24 11:16	1
Cadmium	0.0012		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 15:23	1
Calcium	110		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 15:23	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 15:23	1
Cobalt	0.0024		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 14:21	1
Lead	0.00037	J	0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 15:23	1
Magnesium	37		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 15:23	1
Molybdenum	0.048		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 15:23	1
Potassium	7.0		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 15:23	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 15:23	1
Sodium	63		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 14:21	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 15:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/30/24 11:35	07/31/24 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	100		5.0	0.58	mg/L			08/01/24 09:23	5
Sulfate (EPA 300.0)	90		5.0	1.0	mg/L			08/01/24 09:23	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	310	B	5.0	3.7	mg/L			07/30/24 19:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/30/24 19:54	1
Total Dissolved Solids (SM 2540C)	600		10	4.3	mg/L			07/22/24 21:26	1
Fluoride (SM 4500 F C)	0.27		0.10	0.056	mg/L			07/23/24 15:17	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	20.26				ft			07/16/24 08:42	1
Field pH	7.07				SU			07/16/24 08:42	1
Field Temperature	19.7				Degrees C			07/16/24 08:42	1
Oxidation Reduction Potential	96.9				millivolts			07/16/24 08:42	1
Oxygen, Dissolved	0.17				mg/L			07/16/24 08:42	1
Specific Conductance	911				umhos/cm			07/16/24 08:42	1
Turbidity	12.12				NTU			07/16/24 08:42	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client Sample ID: FB

Lab Sample ID: 500-253560-22

Date Collected: 07/18/24 08:00

Matrix: Water

Date Received: 07/18/24 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0020	J B	0.0050	0.0020	mg/L		07/30/24 08:33	07/31/24 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 15:53	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 15:53	1
Barium	<0.0025		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 15:53	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 14:42	1
Boron	0.020	J B	0.050	0.013	mg/L		07/22/24 15:20	07/25/24 11:29	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 15:53	1
Calcium	<0.20		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 15:53	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 15:53	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 14:42	1
Lead	0.00030	J	0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 15:53	1
Magnesium	<0.20		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 15:53	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 15:53	1
Potassium	<0.50		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 15:53	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 15:53	1
Sodium	0.12	J	0.20	0.077	mg/L		07/22/24 15:20	07/23/24 14:42	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 15:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/30/24 11:35	07/31/24 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	0.21	J	1.0	0.12	mg/L			08/01/24 12:15	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			08/01/24 12:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/30/24 21:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/30/24 21:45	1
Total Dissolved Solids (SM 2540C)	6.0	J	10	4.3	mg/L			07/23/24 23:11	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			07/23/24 15:36	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN_845_802-805
SDG: HEN_845_802-805

Client Sample ID: HEN_YSG_ILRIVER

Lab Sample ID: 500-253560-49

Date Collected: 07/15/24 12:30

Matrix: Water

Date Received: 07/16/24 13:05

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	5.25				ft			07/15/24 12:30	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Qualifiers

Metals

Qualifier	Qualifier Description
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.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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.
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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Metals

Prep Batch: 777840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total Recoverable	Water	3005A	
500-253560-5	HEN_03R	Total Recoverable	Water	3005A	
500-253560-6	HEN_03R_FD	Total Recoverable	Water	3005A	
500-253560-9	HEN_08	Total Recoverable	Water	3005A	
500-253560-10	HEN_08&D	Total Recoverable	Water	3005A	
500-253560-14	HEN_18&D	Total Recoverable	Water	3005A	
500-253560-15	HEN_18#S	Total Recoverable	Water	3005A	
500-253560-17	HEN_45#S	Total Recoverable	Water	3005A	
500-253560-22	FB	Total Recoverable	Water	3005A	
MB 500-777840/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-777840/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-253560-1 MS	HEN_07	Total Recoverable	Water	3005A	
500-253560-1 MSD	HEN_07	Total Recoverable	Water	3005A	
500-253560-1 DU	HEN_07	Total Recoverable	Water	3005A	

Analysis Batch: 778011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total Recoverable	Water	6020B	777840
500-253560-5	HEN_03R	Total Recoverable	Water	6020B	777840
500-253560-6	HEN_03R_FD	Total Recoverable	Water	6020B	777840
500-253560-9	HEN_08	Total Recoverable	Water	6020B	777840
500-253560-10	HEN_08&D	Total Recoverable	Water	6020B	777840
500-253560-14	HEN_18&D	Total Recoverable	Water	6020B	777840
500-253560-15	HEN_18#S	Total Recoverable	Water	6020B	777840
500-253560-17	HEN_45#S	Total Recoverable	Water	6020B	777840
500-253560-22	FB	Total Recoverable	Water	6020B	777840
MB 500-777840/1-A	Method Blank	Total Recoverable	Water	6020B	777840
LCS 500-777840/2-A	Lab Control Sample	Total Recoverable	Water	6020B	777840
500-253560-1 MS	HEN_07	Total Recoverable	Water	6020B	777840
500-253560-1 MSD	HEN_07	Total Recoverable	Water	6020B	777840
500-253560-1 DU	HEN_07	Total Recoverable	Water	6020B	777840

Analysis Batch: 778290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total Recoverable	Water	6020B	777840
500-253560-5	HEN_03R	Total Recoverable	Water	6020B	777840
500-253560-6	HEN_03R_FD	Total Recoverable	Water	6020B	777840
500-253560-9	HEN_08	Total Recoverable	Water	6020B	777840
500-253560-10	HEN_08&D	Total Recoverable	Water	6020B	777840
500-253560-14	HEN_18&D	Total Recoverable	Water	6020B	777840
500-253560-15	HEN_18#S	Total Recoverable	Water	6020B	777840
500-253560-17	HEN_45#S	Total Recoverable	Water	6020B	777840
500-253560-22	FB	Total Recoverable	Water	6020B	777840
MB 500-777840/1-A	Method Blank	Total Recoverable	Water	6020B	777840
LCS 500-777840/2-A	Lab Control Sample	Total Recoverable	Water	6020B	777840
500-253560-1 MS	HEN_07	Total Recoverable	Water	6020B	777840
500-253560-1 MSD	HEN_07	Total Recoverable	Water	6020B	777840
500-253560-1 DU	HEN_07	Total Recoverable	Water	6020B	777840

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN_845_802-805

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Job ID: 500-253560-7
SDG: HEN_845_802-805

Metals

Analysis Batch: 778401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-9	HEN_08	Total Recoverable	Water	6020B	777840
500-253560-10	HEN_08&D	Total Recoverable	Water	6020B	777840
500-253560-14	HEN_18&D	Total Recoverable	Water	6020B	777840
500-253560-15	HEN_18#S	Total Recoverable	Water	6020B	777840
500-253560-17	HEN_45#S	Total Recoverable	Water	6020B	777840
500-253560-22	FB	Total Recoverable	Water	6020B	777840

Prep Batch: 778850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	7470A	
500-253560-5	HEN_03R	Total/NA	Water	7470A	
500-253560-6	HEN_03R_FD	Total/NA	Water	7470A	
MB 500-778850/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-778850/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-253560-I-22-D MS	500-253560-I-22-D MS	Dissolved	Water	7470A	
500-253560-I-22-E MSD	500-253560-I-22-E MSD	Dissolved	Water	7470A	
500-253560-I-22-C DU	500-253560-I-22-C DU	Dissolved	Water	7470A	

Prep Batch: 778991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total Recoverable	Water	200.7	
500-253560-5	HEN_03R	Total Recoverable	Water	200.7	
500-253560-6	HEN_03R_FD	Total Recoverable	Water	200.7	
500-253560-9	HEN_08	Total Recoverable	Water	200.7	
500-253560-10	HEN_08&D	Total Recoverable	Water	200.7	
500-253560-14	HEN_18&D	Total Recoverable	Water	200.7	
500-253560-15	HEN_18#S	Total Recoverable	Water	200.7	
500-253560-17	HEN_45#S	Total Recoverable	Water	200.7	
500-253560-22	FB	Total Recoverable	Water	200.7	
MB 500-778991/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-778991/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 779038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-9	HEN_08	Total/NA	Water	7470A	
500-253560-10	HEN_08&D	Total/NA	Water	7470A	
500-253560-14	HEN_18&D	Total/NA	Water	7470A	
500-253560-15	HEN_18#S	Total/NA	Water	7470A	
500-253560-17	HEN_45#S	Total/NA	Water	7470A	
500-253560-22	FB	Total/NA	Water	7470A	
MB 500-779038/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-779038/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 779040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	7470A	778850
500-253560-5	HEN_03R	Total/NA	Water	7470A	778850
500-253560-6	HEN_03R_FD	Total/NA	Water	7470A	778850
MB 500-778850/12-A	Method Blank	Total/NA	Water	7470A	778850
LCS 500-778850/13-A	Lab Control Sample	Total/NA	Water	7470A	778850
500-253560-I-22-D MS	500-253560-I-22-D MS	Dissolved	Water	7470A	778850

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QC Association Summary

845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
Job ID: 500-253560-7
SDG: HEN_845_802-805

Metals (Continued)

Analysis Batch: 779040 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-I-22-E MSD	500-253560-I-22-E MSD	Dissolved	Water	7470A	778850
500-253560-I-22-C DU	500-253560-I-22-C DU	Dissolved	Water	7470A	778850

Analysis Batch: 779270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-9	HEN_08	Total/NA	Water	7470A	779038
500-253560-10	HEN_08&D	Total/NA	Water	7470A	779038
500-253560-14	HEN_18&D	Total/NA	Water	7470A	779038
500-253560-15	HEN_18#S	Total/NA	Water	7470A	779038
500-253560-17	HEN_45#S	Total/NA	Water	7470A	779038
500-253560-22	FB	Total/NA	Water	7470A	779038
MB 500-779038/12-A	Method Blank	Total/NA	Water	7470A	779038
LCS 500-779038/13-A	Lab Control Sample	Total/NA	Water	7470A	779038

Analysis Batch: 779318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total Recoverable	Water	200.7 Rev 4.4	778991
500-253560-5	HEN_03R	Total Recoverable	Water	200.7 Rev 4.4	778991
500-253560-6	HEN_03R_FD	Total Recoverable	Water	200.7 Rev 4.4	778991
500-253560-9	HEN_08	Total Recoverable	Water	200.7 Rev 4.4	778991
500-253560-10	HEN_08&D	Total Recoverable	Water	200.7 Rev 4.4	778991
500-253560-14	HEN_18&D	Total Recoverable	Water	200.7 Rev 4.4	778991
500-253560-15	HEN_18#S	Total Recoverable	Water	200.7 Rev 4.4	778991
500-253560-17	HEN_45#S	Total Recoverable	Water	200.7 Rev 4.4	778991
500-253560-22	FB	Total Recoverable	Water	200.7 Rev 4.4	778991
MB 500-778991/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	778991
LCS 500-778991/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	778991

General Chemistry

Analysis Batch: 777221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	SM 2540C	
MB 500-777221/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-777221/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 777696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	SM 2320B	
500-253560-5	HEN_03R	Total/NA	Water	SM 2320B	
500-253560-6	HEN_03R_FD	Total/NA	Water	SM 2320B	
MB 500-777696/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-777696/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 777853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-5	HEN_03R	Total/NA	Water	SM 2540C	
500-253560-6	HEN_03R_FD	Total/NA	Water	SM 2540C	
500-253560-9	HEN_08	Total/NA	Water	SM 2540C	
500-253560-10	HEN_08&D	Total/NA	Water	SM 2540C	
500-253560-14	HEN_18&D	Total/NA	Water	SM 2540C	

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QC Association Summary

845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
Job ID: 590-253560-7
SDG: HEN_845_802-805

General Chemistry (Continued)

Analysis Batch: 777853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-15	HEN_18#S	Total/NA	Water	SM 2540C	
500-253560-17	HEN_45#S	Total/NA	Water	SM 2540C	
MB 500-777853/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-777853/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 778056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-22	FB	Total/NA	Water	SM 2540C	
MB 500-778056/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-778056/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 778153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-5	HEN_03R	Total/NA	Water	SM 4500 F C	
500-253560-6	HEN_03R_FD	Total/NA	Water	SM 4500 F C	
500-253560-9	HEN_08	Total/NA	Water	SM 4500 F C	
500-253560-10	HEN_08&D	Total/NA	Water	SM 4500 F C	
500-253560-17	HEN_45#S	Total/NA	Water	SM 4500 F C	
500-253560-22	FB	Total/NA	Water	SM 4500 F C	
MB 500-778153/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-778153/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-778153/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-778153/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 779286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-9	HEN_08	Total/NA	Water	SM 2320B	
500-253560-10	HEN_08&D	Total/NA	Water	SM 2320B	
500-253560-14	HEN_18&D	Total/NA	Water	SM 2320B	
500-253560-15	HEN_18#S	Total/NA	Water	SM 2320B	
500-253560-17	HEN_45#S	Total/NA	Water	SM 2320B	
500-253560-22	FB	Total/NA	Water	SM 2320B	
MB 500-779286/28	Method Blank	Total/NA	Water	SM 2320B	
MB 500-779286/3	Method Blank	Total/NA	Water	SM 2320B	
MB 500-779286/53	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-779286/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-779286/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-779286/54	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 779304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	300.0	
500-253560-5	HEN_03R	Total/NA	Water	300.0	
500-253560-6	HEN_03R_FD	Total/NA	Water	300.0	
500-253560-9	HEN_08	Total/NA	Water	300.0	
500-253560-10	HEN_08&D	Total/NA	Water	300.0	
500-253560-14	HEN_18&D	Total/NA	Water	300.0	
500-253560-15	HEN_18#S	Total/NA	Water	300.0	
500-253560-17	HEN_45#S	Total/NA	Water	300.0	
500-253560-22	FB	Total/NA	Water	300.0	
MB 500-779304/3	Method Blank	Total/NA	Water	300.0	

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

General Chemistry (Continued)

Analysis Batch: 779304 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-779304/33	Method Blank	Total/NA	Water	300.0	
MB 500-779304/65	Method Blank	Total/NA	Water	300.0	
LCS 500-779304/34	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-779304/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-779304/66	Lab Control Sample	Total/NA	Water	300.0	
500-253560-5 MS	HEN_03R	Total/NA	Water	300.0	
500-253560-5 MSD	HEN_03R	Total/NA	Water	300.0	
500-253560-17 MS	HEN_45#S	Total/NA	Water	300.0	
500-253560-17 MSD	HEN_45#S	Total/NA	Water	300.0	

Analysis Batch: 780660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	SM 4500 F C	
500-253560-14	HEN_18&D	Total/NA	Water	SM 4500 F C	
500-253560-15	HEN_18#S	Total/NA	Water	SM 4500 F C	
MB 500-780660/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-780660/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-253560-1 MS	HEN_07	Total/NA	Water	SM 4500 F C	
500-253560-1 MSD	HEN_07	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 781194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	Field Sampling	
500-253560-5	HEN_03R	Total/NA	Water	Field Sampling	
500-253560-6	HEN_03R_FD	Total/NA	Water	Field Sampling	
500-253560-9	HEN_08	Total/NA	Water	Field Sampling	
500-253560-10	HEN_08&D	Total/NA	Water	Field Sampling	
500-253560-14	HEN_18&D	Total/NA	Water	Field Sampling	
500-253560-15	HEN_18#S	Total/NA	Water	Field Sampling	
500-253560-17	HEN_45#S	Total/NA	Water	Field Sampling	
500-253560-49	HEN_YSG_ILRIVER	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-253560-7
SDG: HEN_845_802-805

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-778991/1-A
Matrix: Water
Analysis Batch: 779318

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 778991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00272	J	0.0050	0.0020	mg/L		07/30/24 08:33	07/31/24 13:09	1

Lab Sample ID: LCS 500-778991/2-A
Matrix: Water
Analysis Batch: 779318

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 778991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.247		mg/L		99	85 - 115

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-777840/1-A
Matrix: Water
Analysis Batch: 778011

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010	0.00023	mg/L		07/22/24 15:20	07/23/24 13:27	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 13:27	1
Boron	0.0490	J	0.050	0.013	mg/L		07/22/24 15:20	07/23/24 13:27	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/23/24 13:27	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/23/24 13:27	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 13:27	1
Lead	<0.00050		0.00050	0.00019	mg/L		07/22/24 15:20	07/23/24 13:27	1
Magnesium	<0.20		0.20	0.049	mg/L		07/22/24 15:20	07/23/24 13:27	1
Potassium	<0.50		0.50	0.11	mg/L		07/22/24 15:20	07/23/24 13:27	1
Sodium	<0.20		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 13:27	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/23/24 13:27	1

Lab Sample ID: MB 500-777840/1-A
Matrix: Water
Analysis Batch: 778290

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 14:28	1
Barium	<0.0025		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 14:28	1
Calcium	<0.20		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 14:28	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 14:28	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 14:28	1

Lab Sample ID: LCS 500-777840/2-A
Matrix: Water
Analysis Batch: 778011

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0875		mg/L		87	80 - 120
Beryllium	0.0500	0.0467		mg/L		93	80 - 120
Boron	1.00	0.933		mg/L		93	80 - 120
Cadmium	0.0500	0.0449		mg/L		90	80 - 120
Chromium	0.200	0.181		mg/L		91	80 - 120
Cobalt	0.500	0.459		mg/L		92	80 - 120

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN-24Q3-2905
SDG: HEN_845_802-805

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

Lab Sample ID: LCS 500-777840/2-A
Matrix: Water
Analysis Batch: 778011

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.0868		mg/L		87	80 - 120
Magnesium	10.0	9.11		mg/L		91	80 - 120
Potassium	10.0	8.77		mg/L		88	80 - 120
Sodium	10.0	9.03		mg/L		90	80 - 120
Thallium	0.100	0.0872		mg/L		87	80 - 120

Lab Sample ID: LCS 500-777840/2-A
Matrix: Water
Analysis Batch: 778290

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.496		mg/L		99	80 - 120
Barium	0.500	0.500		mg/L		100	80 - 120
Calcium	10.0	9.47		mg/L		95	80 - 120
Molybdenum	1.00	0.942		mg/L		94	80 - 120
Selenium	0.100	0.0968		mg/L		97	80 - 120

Lab Sample ID: 500-253560-1 MS
Matrix: Water
Analysis Batch: 778011

Client Sample ID: HEN_07
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0010		0.0500	0.0447		mg/L		89	75 - 125
Boron	0.093	B	1.00	0.929		mg/L		84	75 - 125
Cobalt	0.0023		0.500	0.427		mg/L		85	75 - 125
Sodium	77		10.0	76.8	4	mg/L		-5	75 - 125

Lab Sample ID: 500-253560-1 MS
Matrix: Water
Analysis Batch: 778290

Client Sample ID: HEN_07
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.491		mg/L		98	75 - 125
Arsenic	<0.0010		0.100	0.0949		mg/L		95	75 - 125
Barium	0.17		0.500	0.648		mg/L		95	75 - 125
Cadmium	<0.00050		0.0500	0.0475		mg/L		95	75 - 125
Calcium	170		10.0	165	4	mg/L		-57	75 - 125
Chromium	<0.0050		0.200	0.200		mg/L		100	75 - 125
Lead	<0.00050		0.100	0.0976		mg/L		98	75 - 125
Magnesium	63		10.0	66.9	4	mg/L		36	75 - 125
Molybdenum	<0.0050		1.00	0.936		mg/L		94	75 - 125
Potassium	3.8		10.0	13.0		mg/L		92	75 - 125
Selenium	<0.0025		0.100	0.0942		mg/L		94	75 - 125
Thallium	<0.0020		0.100	0.0998		mg/L		100	75 - 125

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

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

Lab Sample ID: 500-253560-1 MSD
Matrix: Water
Analysis Batch: 778011

Client Sample ID: HEN_07
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.0010		0.0500	0.0465		mg/L		93	75 - 125	4	20
Boron	0.093	B	1.00	1.00		mg/L		91	75 - 125	7	20
Cobalt	0.0023		0.500	0.451		mg/L		90	75 - 125	5	20
Sodium	77		10.0	81.1	4	mg/L		38	75 - 125	5	20

Lab Sample ID: 500-253560-1 MSD
Matrix: Water
Analysis Batch: 778290

Client Sample ID: HEN_07
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.519		mg/L		104	75 - 125	6	20
Arsenic	<0.0010		0.100	0.101		mg/L		101	75 - 125	6	20
Barium	0.17		0.500	0.681		mg/L		101	75 - 125	5	20
Cadmium	<0.00050		0.0500	0.0507		mg/L		101	75 - 125	6	20
Calcium	170		10.0	173	4	mg/L		22	75 - 125	5	20
Chromium	<0.0050		0.200	0.211		mg/L		105	75 - 125	5	20
Lead	<0.00050		0.100	0.103		mg/L		103	75 - 125	5	20
Magnesium	63		10.0	70.8	4	mg/L		75	75 - 125	6	20
Molybdenum	<0.0050		1.00	0.997		mg/L		100	75 - 125	6	20
Potassium	3.8		10.0	13.8		mg/L		100	75 - 125	6	20
Selenium	<0.0025		0.100	0.100		mg/L		100	75 - 125	6	20
Thallium	<0.0020		0.100	0.106		mg/L		106	75 - 125	6	20

Lab Sample ID: 500-253560-1 DU
Matrix: Water
Analysis Batch: 778011

Client Sample ID: HEN_07
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	0.093	B	0.0717	F5	mg/L		26	20
Cobalt	0.0023		0.00221		mg/L		3	20
Sodium	77		76.1		mg/L		2	20

Lab Sample ID: 500-253560-1 DU
Matrix: Water
Analysis Batch: 778290

Client Sample ID: HEN_07
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Barium	0.17		0.173		mg/L		0.7	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	170		170		mg/L		0.3	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Magnesium	63		62.8		mg/L		0.7	20
Molybdenum	<0.0050		<0.0050		mg/L		NC	20
Potassium	3.8		3.78		mg/L		1	20
Selenium	<0.0025		<0.0025		mg/L		NC	20

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN-24Q3-802-805
SDG: HEN_845_802-805

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

Lab Sample ID: 500-253560-1 DU
Matrix: Water
Analysis Batch: 778290

Client Sample ID: HEN_07
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-778850/12-A
Matrix: Water
Analysis Batch: 779040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 778850

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/29/24 11:55	07/30/24 08:00	1

Lab Sample ID: LCS 500-778850/13-A
Matrix: Water
Analysis Batch: 779040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 778850

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00195		mg/L		97	80 - 120

Lab Sample ID: MB 500-779038/12-A
Matrix: Water
Analysis Batch: 779270

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 779038

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/30/24 11:35	07/31/24 07:53	1

Lab Sample ID: LCS 500-779038/13-A
Matrix: Water
Analysis Batch: 779270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 779038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00205		mg/L		103	80 - 120

Lab Sample ID: 500-253560-I-22-D MS
Matrix: Water
Analysis Batch: 779040

Client Sample ID: 500-253560-I-22-D MS
Prep Type: Dissolved
Prep Batch: 778850

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00107		mg/L		107	75 - 125

Lab Sample ID: 500-253560-I-22-E MSD
Matrix: Water
Analysis Batch: 779040

Client Sample ID: 500-253560-I-22-E MSD
Prep Type: Dissolved
Prep Batch: 778850

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.000981		mg/L		98	75 - 125	9	20

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

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

Lab Sample ID: 500-253560-I-22-C DU
Matrix: Water
Analysis Batch: 779040

Client Sample ID: 500-253560-I-22-C DU
Prep Type: Dissolved
Prep Batch: 778850

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779304/3
Matrix: Water
Analysis Batch: 779304

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.168	J	1.0	0.12	mg/L			07/31/24 16:42	1
Sulfate	<1.0		1.0	0.21	mg/L			07/31/24 16:42	1

Lab Sample ID: MB 500-779304/33
Matrix: Water
Analysis Batch: 779304

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.163	J	1.0	0.12	mg/L			08/01/24 00:32	1
Sulfate	<1.0		1.0	0.21	mg/L			08/01/24 00:32	1

Lab Sample ID: MB 500-779304/65
Matrix: Water
Analysis Batch: 779304

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			08/01/24 08:52	1
Sulfate	<1.0		1.0	0.21	mg/L			08/01/24 08:52	1

Lab Sample ID: LCS 500-779304/34
Matrix: Water
Analysis Batch: 779304

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	20.5		mg/L		103	90 - 110
Sulfate	20.0	21.4		mg/L		107	90 - 110

Lab Sample ID: LCS 500-779304/4
Matrix: Water
Analysis Batch: 779304

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	20.4		mg/L		102	90 - 110
Sulfate	20.0	21.4		mg/L		107	90 - 110

Lab Sample ID: LCS 500-779304/66
Matrix: Water
Analysis Batch: 779304

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	20.9		mg/L		104	90 - 110

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-779304/66
Matrix: Water
Analysis Batch: 779304

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.5		mg/L		107	90 - 110

Lab Sample ID: 500-253560-5 MS
Matrix: Water
Analysis Batch: 779304

Client Sample ID: HEN_03R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	73	B	50.0	120		mg/L		94	80 - 120
Sulfate	98		50.0	146		mg/L		96	80 - 120

Lab Sample ID: 500-253560-5 MSD
Matrix: Water
Analysis Batch: 779304

Client Sample ID: HEN_03R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	73	B	50.0	121		mg/L		95	80 - 120	0	20
Sulfate	98		50.0	147		mg/L		97	80 - 120	0	20

Lab Sample ID: 500-253560-17 MS
Matrix: Water
Analysis Batch: 779304

Client Sample ID: HEN_45#S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100		50.0	147		mg/L		92	80 - 120
Sulfate	90		50.0	138		mg/L		97	80 - 120

Lab Sample ID: 500-253560-17 MSD
Matrix: Water
Analysis Batch: 779304

Client Sample ID: HEN_45#S
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		50.0	148		mg/L		93	80 - 120	0	20
Sulfate	90		50.0	138		mg/L		97	80 - 120	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-777696/28
Matrix: Water
Analysis Batch: 777696

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			07/19/24 20:43	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			07/19/24 20:43	1

Lab Sample ID: LCS 500-777696/4
Matrix: Water
Analysis Batch: 777696

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	105		mg/L		105	80 - 120

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-253560-7
HEN-24Q3-2025
SDG: HEN_845_802-805

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 500-779286/28
Matrix: Water
Analysis Batch: 779286

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	6.15		5.0	3.7	mg/L			07/30/24 16:38	1
Carbonate Alkalinity as CaCO ₃	<5.0		5.0	3.7	mg/L			07/30/24 16:38	1

Lab Sample ID: MB 500-779286/3
Matrix: Water
Analysis Batch: 779286

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	5.15		5.0	3.7	mg/L			07/30/24 10:17	1
Carbonate Alkalinity as CaCO ₃	<5.0		5.0	3.7	mg/L			07/30/24 10:17	1

Lab Sample ID: MB 500-779286/53
Matrix: Water
Analysis Batch: 779286

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	<5.0		5.0	3.7	mg/L			07/30/24 20:30	1
Carbonate Alkalinity as CaCO ₃	<5.0		5.0	3.7	mg/L			07/30/24 20:30	1

Lab Sample ID: LCS 500-779286/29
Matrix: Water
Analysis Batch: 779286

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

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

Lab Sample ID: LCS 500-779286/4
Matrix: Water
Analysis Batch: 779286

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	80 - 120

Lab Sample ID: LCS 500-779286/54
Matrix: Water
Analysis Batch: 779286

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	106		mg/L		106	80 - 120

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

Lab Sample ID: MB 500-777221/1
Matrix: Water
Analysis Batch: 777221

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			07/18/24 00:21	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-253560-7
SDG: HEN_845_802-805

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

Lab Sample ID: LCS 500-777221/2
Matrix: Water
Analysis Batch: 777221

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

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

Lab Sample ID: MB 500-777853/1
Matrix: Water
Analysis Batch: 777853

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			07/22/24 20:43	1

Lab Sample ID: LCS 500-777853/2
Matrix: Water
Analysis Batch: 777853

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	234		mg/L		94	80 - 120

Lab Sample ID: MB 500-778056/1
Matrix: Water
Analysis Batch: 778056

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			07/23/24 22:38	1

Lab Sample ID: LCS 500-778056/2
Matrix: Water
Analysis Batch: 778056

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	240		mg/L		96	80 - 120

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-778153/3
Matrix: Water
Analysis Batch: 778153

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			07/23/24 12:09	1

Lab Sample ID: MB 500-778153/31
Matrix: Water
Analysis Batch: 778153

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			07/23/24 14:20	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN-24Q3-802-805
SDG: HEN_845_802-805

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-778153/32
Matrix: Water
Analysis Batch: 778153

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	9.49		mg/L		95	90 - 119

Lab Sample ID: LCS 500-778153/4
Matrix: Water
Analysis Batch: 778153

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	9.52		mg/L		95	90 - 119

Lab Sample ID: MB 500-780660/3
Matrix: Water
Analysis Batch: 780660

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			08/08/24 14:13	1

Lab Sample ID: LCS 500-780660/4
Matrix: Water
Analysis Batch: 780660

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	9.39		mg/L		94	90 - 119

Lab Sample ID: 500-253560-1 MS
Matrix: Water
Analysis Batch: 780660

Client Sample ID: HEN_07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.12		5.00	5.10		mg/L		100	75 - 125

Lab Sample ID: 500-253560-1 MSD
Matrix: Water
Analysis Batch: 780660

Client Sample ID: HEN_07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.12		5.00	5.11		mg/L		100	75 - 125	0	20

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN_845_802-805
SDG: HEN_845_802-805

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Client Sample ID: HEN_07

Date Collected: 07/15/24 15:20

Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778991	BDE	EET CHI	07/30/24 08:33 - 07/30/24 14:33 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	779318	SJ	EET CHI	07/31/24 13:26
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 13:32
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 14:33
Total/NA	Prep	7470A			778850	MJG	EET CHI	07/29/24 11:55 - 07/29/24 13:55 ¹
Total/NA	Analysis	7470A		1	779040	MJG	EET CHI	07/30/24 08:38
Total/NA	Analysis	300.0		5	779304	NMB	EET CHI	07/31/24 21:24
Total/NA	Analysis	SM 2320B		1	777696	SO	EET CHI	07/19/24 19:51
Total/NA	Analysis	SM 2540C		1	777221	CLB	EET CHI	07/18/24 00:54
Total/NA	Analysis	SM 4500 F C		1	780660	SO	EET CHI	08/08/24 14:33
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/15/24 15:20

Client Sample ID: HEN_03R

Date Collected: 07/16/24 09:53

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778991	BDE	EET CHI	07/30/24 08:33 - 07/30/24 14:33 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	779318	SJ	EET CHI	07/31/24 13:30
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 13:52
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 14:53
Total/NA	Prep	7470A			778850	MJG	EET CHI	07/29/24 11:55 - 07/29/24 13:55 ¹
Total/NA	Analysis	7470A		1	779040	MJG	EET CHI	07/30/24 08:57
Total/NA	Analysis	300.0		5	779304	NMB	EET CHI	07/31/24 23:45
Total/NA	Analysis	SM 2320B		1	777696	SO	EET CHI	07/19/24 20:23
Total/NA	Analysis	SM 2540C		1	777853	CLB	EET CHI	07/22/24 20:55
Total/NA	Analysis	SM 4500 F C		1	778153	SO	EET CHI	07/23/24 14:02
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/16/24 09:53

Client Sample ID: HEN_03R_FD

Date Collected: 07/16/24 09:53

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778991	BDE	EET CHI	07/30/24 08:33 - 07/30/24 14:33 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	779318	SJ	EET CHI	07/31/24 13:34
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 13:54
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 14:56

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Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN-845-802-805
SDG: HEN_845_802-805

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Client Sample ID: HEN_03R_FD

Date Collected: 07/16/24 09:53

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			778850	MJG	EET CHI	07/29/24 11:55 - 07/29/24 13:55 ¹
Total/NA	Analysis	7470A		1	779040	MJG	EET CHI	07/30/24 08:59
Total/NA	Analysis	300.0		5	779304	NMB	EET CHI	08/01/24 02:37
Total/NA	Analysis	SM 2320B		1	777696	SO	EET CHI	07/19/24 20:33
Total/NA	Analysis	SM 2540C		1	777853	CLB	EET CHI	07/22/24 20:58
Total/NA	Analysis	SM 4500 F C		1	778153	SO	EET CHI	07/23/24 14:06
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/16/24 09:53

Client Sample ID: HEN_08

Date Collected: 07/16/24 14:00

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778991	BDE	EET CHI	07/30/24 08:33 - 07/30/24 14:33 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	779318	SJ	EET CHI	07/31/24 13:39
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 14:06
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 15:02
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778401	RN	EET CHI	07/25/24 11:01
Total/NA	Prep	7470A			779038	MJG	EET CHI	07/30/24 11:35 - 07/30/24 13:35 ¹
Total/NA	Analysis	7470A		1	779270	MJG	EET CHI	07/31/24 08:03
Total/NA	Analysis	300.0		10	779304	NMB	EET CHI	08/01/24 03:55
Total/NA	Analysis	SM 2320B		1	779286	LEG	EET CHI	07/30/24 18:16
Total/NA	Analysis	SM 2540C		1	777853	CLB	EET CHI	07/22/24 21:06
Total/NA	Analysis	SM 4500 F C		1	778153	SO	EET CHI	07/23/24 14:30
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/16/24 14:00

Client Sample ID: HEN_08&D

Date Collected: 07/16/24 15:46

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778991	BDE	EET CHI	07/30/24 08:33 - 07/30/24 14:33 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	779318	SJ	EET CHI	07/31/24 13:43
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 14:08
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 15:05
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778401	RN	EET CHI	07/25/24 11:03
Total/NA	Prep	7470A			779038	MJG	EET CHI	07/30/24 11:35 - 07/30/24 13:35 ¹
Total/NA	Analysis	7470A		1	779270	MJG	EET CHI	07/31/24 08:05

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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
SDG: HEN_845_802-805

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Client Sample ID: HEN_08&D

Date Collected: 07/16/24 15:46

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	779304	NMB	EET CHI	08/01/24 04:26
Total/NA	Analysis	SM 2320B		1	779286	LEG	EET CHI	07/30/24 18:26
Total/NA	Analysis	SM 2540C		1	777853	CLB	EET CHI	07/22/24 21:08
Total/NA	Analysis	SM 4500 F C		1	778153	SO	EET CHI	07/23/24 14:34
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/16/24 15:46

Client Sample ID: HEN_18&D

Date Collected: 07/16/24 13:17

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778991	BDE	EET CHI	07/30/24 08:33 - 07/30/24 14:33 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	779318	SJ	EET CHI	07/31/24 13:48
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 14:15
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 15:16
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778401	RN	EET CHI	07/25/24 11:09
Total/NA	Prep	7470A			779038	MJG	EET CHI	07/30/24 11:35 - 07/30/24 13:35 ¹
Total/NA	Analysis	7470A		1	779270	MJG	EET CHI	07/31/24 08:35
Total/NA	Analysis	300.0		5	779304	NMB	EET CHI	08/01/24 06:16
Total/NA	Analysis	SM 2320B		1	779286	LEG	EET CHI	07/30/24 19:22
Total/NA	Analysis	SM 2540C		1	777853	CLB	EET CHI	07/22/24 21:19
Total/NA	Analysis	SM 4500 F C		1	780660	SO	EET CHI	08/08/24 15:35
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/16/24 13:17

Client Sample ID: HEN_18#S

Date Collected: 07/16/24 12:06

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778991	BDE	EET CHI	07/30/24 08:33 - 07/30/24 14:33 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	779318	SJ	EET CHI	07/31/24 13:52
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 14:17
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 15:18
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		5	778401	RN	EET CHI	07/25/24 11:12
Total/NA	Prep	7470A			779038	MJG	EET CHI	07/30/24 11:35 - 07/30/24 13:35 ¹
Total/NA	Analysis	7470A		1	779270	MJG	EET CHI	07/31/24 08:37
Total/NA	Analysis	300.0		10	779304	NMB	EET CHI	08/01/24 06:47
Total/NA	Analysis	SM 2320B		1	779286	LEG	EET CHI	07/30/24 19:35

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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN-24Q3
SDG: HEN_845_802-805

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Client Sample ID: HEN_18#S

Date Collected: 07/16/24 12:06

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	777853	CLB	EET CHI	07/22/24 21:21
Total/NA	Analysis	SM 4500 F C		1	780660	SO	EET CHI	08/08/24 15:40
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/16/24 12:06

Client Sample ID: HEN_45#S

Date Collected: 07/16/24 08:42

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778991	BDE	EET CHI	07/30/24 08:33 - 07/30/24 14:33 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	779318	SJ	EET CHI	07/31/24 13:57
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 14:21
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 15:23
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778401	RN	EET CHI	07/25/24 11:16
Total/NA	Prep	7470A			779038	MJG	EET CHI	07/30/24 11:35 - 07/30/24 13:35 ¹
Total/NA	Analysis	7470A		1	779270	MJG	EET CHI	07/31/24 08:48
Total/NA	Analysis	300.0		5	779304	NMB	EET CHI	08/01/24 09:23
Total/NA	Analysis	SM 2320B		1	779286	LEG	EET CHI	07/30/24 19:54
Total/NA	Analysis	SM 2540C		1	777853	CLB	EET CHI	07/22/24 21:26
Total/NA	Analysis	SM 4500 F C		1	778153	SO	EET CHI	07/23/24 15:17
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/16/24 08:42

Client Sample ID: FB

Date Collected: 07/18/24 08:00

Date Received: 07/18/24 13:00

Lab Sample ID: 500-253560-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778991	BDE	EET CHI	07/30/24 08:33 - 07/30/24 14:33 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	779318	SJ	EET CHI	07/31/24 14:22
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 14:42
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 15:53
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 ¹
Total Recoverable	Analysis	6020B		1	778401	RN	EET CHI	07/25/24 11:29
Total/NA	Prep	7470A			779038	MJG	EET CHI	07/30/24 11:35 - 07/30/24 13:35 ¹
Total/NA	Analysis	7470A		1	779270	MJG	EET CHI	07/31/24 08:54
Total/NA	Analysis	300.0		1	779304	NMB	EET CHI	08/01/24 12:15
Total/NA	Analysis	SM 2320B		1	779286	LEG	EET CHI	07/30/24 21:45
Total/NA	Analysis	SM 2540C		1	778056	CLB	EET CHI	07/23/24 23:11
Total/NA	Analysis	SM 4500 F C		1	778153	SO	EET CHI	07/23/24 15:36

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Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-7
HEN_845_802-805
SDG: HEN_845_802-805

Client Sample ID: HEN_YSG_ILRIVER Lab Sample ID: 500-253560-49
Date Collected: 07/15/24 12:30 Matrix: Water
Date Received: 07/16/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/15/24 12:30

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

ATTACHMENT B.
Q45 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-253560-7
SDG: HEN_845_802-805

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	Lithium
Field Sampling		Water	Depth to Water (ft from MP)
Field Sampling		Water	Field pH
Field Sampling		Water	Field Temperature
Field Sampling		Water	Oxidation Reduction Potential
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Turbidity
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3

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ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / ,) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTEWATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER TS TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N Analysis Test	Requested Analysis Filtered (Y/N)																Residual Chlorine (Y/N)	Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		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						
1	HEN-45#S													X											B	SHORT HOLD - NO2									
2	HEN-46																							C											
3	HEN-47																							D											
4	HEN-48R													X										E											
5	HEN-49																							F	MS/MSD										
6	HEN-50																							G											
7	HEN-51																							H											
8	HEN-52																							I											
9	HEN-54																							J											
10	HEN-54-FD																							K											
11	HEN-55																							L	DTW Only										
12	HEN_YSG_ILRIVER													X	X	X	X	X	X	X	X	X	X	M	DTW Only										
13	HEN_XSG01																							N	DTW Only										
14	FB																							O	SHORT-HOLD - NO2										
15	TB1																							P	BTEX Only										
16	TB2																							A	BTEX Only										
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																							
HEN-24Q3 Rev 1		Lorne Filicez EETA			7-15-24	17:00	Javier Lopez EETA			7/16/24	11:05																								
		Javier Lopez EETA			7/16/24	13:05	Thur Lock			7/16/24	13:05																								
SAMPLER NAME AND SIGNATURE														Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)																		
PRINT Name of SAMPLER Lorne T. Filicez																																			
SIGNATURE OF SAMPLER [Signature] DATE Signed (MM/DD/YY) 7-15-24																																			

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15 =

$-0.1 \rightarrow -0.2, 1.0 \rightarrow 0.9, 3.2 \rightarrow 3.1, 1.0 \rightarrow 0.9, 0.9 \rightarrow 0.8, 1.7 \rightarrow 1.6$

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[illegible]08/27/24

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page 3 of 3
Company: <u>Vistra Corp-Hennepin</u>	Report To: <u>Brian Voelker</u>	Attention: <u>Brian Voelker</u>	REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: <u>IL</u> STATE: <u>IL</u>
Address: <u>13498 E 800th St</u>	Copy To: <u>Sam Davies samantha.davies@visstracorp.com</u>	Company Name: <u>Vistra Corp</u>	
<u>Hennepin, IL 61327</u>	<u>Jason Stuckey & Michael Olle</u>	Address: <u>see Section A</u>	
Email To: <u>Brian.Voelker@VistraCorp.com</u>	Purchase Order No. <u>michael.olle@visstracorp.com</u>	Quote Reference:	
Phone: <u>(217) 753-8911</u> Fax:	Project Name: <u>Jason.Stuckey@visstracorp.com</u>	Project Manager:	
Requested Due Date/TAT: <u>10 day</u>	Project Number: <u>50023030</u>	Profile #:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓ Analysis Test ↓	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	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		
1	HEN_45#S				7-16-24	0842													X				X	B	SHORT HOLD - NO2						
2	HEN_46																			X			X	G							
3	HEN_47																			X			X	G							
4	HEN_48R																							I							
5	HEN_49																			X		X	X	H	MS/MSD						
6	HEN_50																			X		X	X	H							
7	HEN_51																			X		X	X	H							
8	HEN_52																						X	G							
9	HEN_54																						X	G							
10	HEN_54 FD																						X	G							
11	HEN_55																							J	DTW Only						
12	HEN_YSG_ILRIVER																		X	X	X	X	X	J	DTW Only						
13	HEN_XSG01																			X				J	DTW Only						
14	FB																				X	X	C	SHORT HOLD - NO2							
15	TB1				07-16-24	00:00																X	A	BTEX Only							
16	TB2				07-16-24	00:00																X	A	BTEX Only							
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																					
HEN-24Q3 Rev 1		Lorne Filenicz		7/16/24	1546	Lorne Filenicz		7/17/24	0948																						

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					
SIGNATURE of SAMPLER					
Lorne Filenicz					
Lorne Filenicz					
DATE Signed (MM/DD/YY)					
7/16/24					

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6.1 $\rightarrow$ 5.7

NAME OF SAMPLER		DATE
C. Corns Filer		8/1/80
SIGNATURE OF SAMPLER		TIME (MM/DD)
C. Corns Filer		11:00

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ITEM #	Section D Required Client Information	Valid Matrix Codes <u>MATRIX</u> <u>CODE</u>	<u>(see valid codes to left)</u>	<u>SAMPLE TYPE (G=GRAB C=COMP)</u>	COLLECTED		<u>SAMPLE TEMP AT COLLECTION</u>	# OF CONTAINERS	Preservatives								<u>Y/N ↓ Analysis Test ↑</u>	Requested Analysis Filtered (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
																		Residual Chlorine (Y/N)	X												
1	HEN_21R																														MS/MSD
2	HEN_22																														
3	HEN_22&D																														
4	HEN_23																														
5	HEN_25																														DTW Only
6	HEN_26																														DTW Only
7	HEN_27																														
8	HEN_30																														DTW Only
9	HEN_31																														DTW Only
10	HEN_32																														
11	HEN_33																														DTW Only
12	HEN_34																														
13	HEN_35																														
14	HEN_35 FD																														
15	HEN_36																														DTW Only
16	HEN_40#S																														SHORT HOLD - NO2
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION				DATE		TIME		SAMPLE CONDITIONS														
HEN-24Q3 Rev 1		Conefutura Inc			7-19-24		1300		Shirley Smith				7/18/24		1300																

08/27/24

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

24

58 → 57, 18 → 17, 58 → 57 58 → 57, 18 → 17
62 → 59, 43 → 42 58 → 57, 18 → 17

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845 QUARTERLY REPORT - QUARTER 3, 2024

HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

1 HEN-845-802805

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Invoice information.

Company: Vistra Corp-Hennepin		Report To: Brian Voelker	Attention: Brian Voelker			
Address: 13498 E 800th St		Copy To: Sam Davies samantha.davies@vistracorp.com	Company Name: Vistra Corp	REGULATORY AGENCY		
Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address: see Section A			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.: michael.olle@vistracorp.com	Quote Reference:	NPDES	GROUND WATER	DRINKING WATER
Phone: (217) 753-8911 Fax:		Project Name: Jason.Stuckey@vistracorp.com	Project Manager:	UST	RCRA	OTHER
Requested Due Date/TAT 10 day		Project Number: 50023030	Profile #:	Site Location	IL	
				STATE		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)										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		Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1	* HEN_21R				8-6-24	1315																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

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

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

Page 3 of 3

33
34
35
36
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R: <u>Borne F. Lewis, CZ</u>	DATE Signed (MM/DD/YY)	<u>8-7-24</u>
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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-253560-7
SDG Number: HEN_845_802-805

Login Number: 253560

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	4.0,-0.2,0.9,3.1,0.9,0.8,1.6,5.7,11.8,12.7,11.8,9.1,11.3,5.7,1.7,5.7,5.9,4.2
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 $<6\text{mm}$ (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin</u>		Client: <u>Vistra</u>		Start Date: <u>7/16/2024</u> Time: <u>0805</u>								
Project Number: <u>2024.0054</u>		Task #: <u> </u>		Finish Date: <u>Same</u> Time: <u> </u>								
Field Personnel: <u>Lorne T.</u>												
WELL INFORMATION				EVENT TYPE								
Well ID: <u>02</u>				Low-Flow / Low Stress Sampling								
Casing ID: <u>2"</u>				Other (Specify): <u>Low Flow</u>								
				YSI SERIAL NO <u>245160326</u>								
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	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/Odor
pre	0	0805		44.88		14.4	7.05	984	7.05	3.17	167.8	Clear
purge	5	0810				14.1	7.05	954	7.05	7.40	169.9	
	10	0815		44.97		14.1	7.04	939	7.04	1.60	171.0	
	15	0820				14.2	7.02	938	6.99	1.51	171.5	
*	20	0825		44.97								
	25											
	30											
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)				ABBREVIATIONS								
Sample ID, date, & time: <u>ID 02 7-16-24 0825</u>				Cond. - Actual Conductivity ft - Feet Below Top of Casing mg - Milligrams mm - Not Measured °C - Degrees Celsius								

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra		Time: 0920								
Project Number: 2024.0054		Task #: 7/16/2024		Time: 0920								
Field Personnel: B. Assouly		Finish Date: 07/16/24		Time: 1050								
WELL INFORMATION				EVENT TYPE								
Well ID: Hen-038		Well Development		Low-Flow / Low Stress Sampling								
Casing ID:		Well Volume Approach Sampling		Other (Specify): Low Flow								
Inches		Well Volume Approach Sampling		YSI SERIAL NO 24A01225								
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	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/Odor
pre	0	0925	0.5	34.91	—	18.3	7.19	0.820	4.80	7.88	-14.4	Clear
purge	5	0927	0	34.90	—	18.2	7.20	0.787	0.30	12.03	81.5	↓
↓	10	0932	0.5	34.90	—	18.2	7.21	0.792	0.29	9.16	62.0	↓
↓	15	0937	1	34.90	—	18.3	7.21	0.797	0.27	8.70	71.3	↓
↓	20	0942	2	34.90	—	18.3	7.21	0.792	0.27	8.72	77.6	↓
↓	25	0947	3	34.90	—	18.2	7.21	0.792	0.20	4.88	81.0	↓
↓	30	0952	4	34.90	—	18.2	7.21	0.792	0.20	4.88	81.0	↓
↓	35	0953	4	34.90	—	18.2	7.21	0.792	0.20	4.88	81.0	↓
↓	40	0953	4	34.90	—	18.2	7.21	0.792	0.20	4.88	81.0	↓
↓	45	0953	4	34.90	—	18.2	7.21	0.792	0.20	4.88	81.0	↓
↓	50	0953	4	34.90	—	18.2	7.21	0.792	0.20	4.88	81.0	↓
↓	55	0953	4	34.90	—	18.2	7.21	0.792	0.20	4.88	81.0	↓
↓	60	0953	4	34.90	—	18.2	7.21	0.792	0.20	4.88	81.0	↓
NOTES (continued)										ABBREVIATIONS		
Sample ID, date, & time: Sampled @ 0953 on 07/16/24										Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured		
Sample ID: Hen-038 Duplicate @ 0953 on 07/16/24										ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp. - Temperature C - Degrees Celsius		

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visita Start Date: 7/16/2024 Time: 1045
Project Number: 2024.0054 Task #: Same Finish Date: 1120
Field Personnel: Lorne

WELL INFORMATION

Well ID: 05F Casing ID: 2" (inches)
EVENT TYPE: Low-Flow / Low Stress Sampling
Other (Specify): Low Flow

Well Development
Well Volume Approach Sampling

YSI SERIAL NO
24E100326

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (feet)	Drawdown (feet)	Temp. (°C) +/- 10%	pH (SU) +/- 0.01	SEC or Cond. (µS/cm) +/- 5%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	1045		41.11		20.4	7.64	918	1.19	870	160.7	clear
purge	5	1050		41.1		20.5	7.63	918	0.74	776	160.7	
	10	1055				20.3	7.63	915	0.67	701	159.3	
	15	1100		41.11		20.3	7.63	916	0.61	586	159.2	
*	20	1105				20.3	7.63	915	0.60	479	158.6	
	25	1110		(41.15)		20.3	7.63	914	0.61	390	158.5	
	30	1115		41.15		20.4	7.63	917	0.60	335	158.5	
	35	1120										
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

ID 05F 7-16-24 Time 1120

ABBREVIATIONS

Cond. - Actual Conductivity
PT BLOC - Feet Below Top of Casing
Temp. - Temperature
mm - Not Measured
C - Degrees Celsius

ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra		Task #: 1140								
Project Number: 2024.0054		Start Date: 7/16/2024		Time: 1215								
Field Personnel: Lorne		Finish Date: Same		Time: 1215								
WELL INFORMATION												
Well ID: 5122		Well Development		EVENT TYPE								
Casing ID: 2"		Well Volume Approach Sampling		Low-Flow / Low Stress Sampling								
		Well Volume Approach Sampling		Other (Specify): Low Flow								
				YSI SERIAL NO 24E100 326								
WATER QUALITY INDICATOR PARAMETERS (continued)												
Heron 12DF2202054 FR												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 10%	pH (SU) +/- 0.01	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	1145		41.11				914	3.34	3.36	159.4	clear
purge	5	1150				20.1	7.43	914	3.34	3.36	159.4	
	10	1155		41.11		20.0	7.41	914	3.34	3.36	159.3	
	15	1200				19.9	7.41	913	3.34	3.36	158.5	
*	20	1205		41.11		19.9	7.41	913	3.34	3.36	157.8	
	25	1210				19.9	7.41	913	3.34	3.36	156.8	
	30	1215		41.11		19.9	7.41	913	3.34	3.36	156.1	
	35	1220										
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID, date, & time: 7-16-24 Time 1215 ID 5122										Cond. - Actual Conductivity FT - Foots below top of casing m - Not Applicable mm - Not Measured ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius		

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION															
Site: Hennepin		Client: Vista		Start Date: 7/15/2024		Time: 1430									
Project Number: 2024.0054		Task #:		Finish Date: 5 June		Time: 1520									
Field Personnel: Lorne F															
WELL INFORMATION				EVENT TYPE											
Well ID: 07				Low-Flow / Low Stress Sampling											
Casing ID: 2.1				Other (Specify Low-Flow)											
				YSI SERIAL NO 24E100326											
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- .002	pH (SU) +/- 0.01	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor			
pre	0	1430		67.77		89.0									
purge	5	1450				16.4	6.67	1.419	7.35	1.66	182.2	Clear			
	10	1455		67.77		16.8	6.67	1.520	7.26	1.99	182.7				
	15	1500				16.9	6.66	1.622	7.04	1.67	189.6				
	20	1505		67.77		16.5	6.65	1.655	6.85	2.00	191.9				
	25	1510				16.4	6.65	1.659	6.84	2.47	191.9				
	30	1515		67.77		16.4	6.65	1.662	6.82	2.66	192.1				
	35	1520													
	40														
	45														
	50														
	55														
	60														
NOTES (continued)										ABBREVIATIONS					
Sample ID, date, & time: Sample @ 1520										Cond - Actual Conductivity			ORP - Oxidation-Reduction Potential SEC - Specific Electrical		
										FT BTOC - Feet Below Top of Casing			Conductance SU - Standard Units		
										na - Not Applicable			Tempo - Temperature		
										mm - Not Measured			°C - Degrees Celsius		

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visstra Start Date: 7/16/2024 Time: 1330
Project Number: 2024.0054 Task #: 1400
Field Personnel: Corne Finish Date: Same Time: 1400

WELL INFORMATION

Well ID: 08 Well Development
Casing ID: 211 Well Volume Approach Sampling

Low-Flow / Low Stress Sampling YSI SERIAL NO

Other (Specify): Low Flow 24E100 326

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 10%	pH (SU) +/- 0.01	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	1330		53.62		15.0	6.65	1608	3.77	1.49	188.8	clear
purge	5	1335		53.61		17.1	6.67	1605	2.71	1.35	188.9	
	10	1340				17.8	6.66	1617	2.31	1.30	189.6	
	15	1345		53.61		18.2	6.65	1602	2.22	1.37	189.6	
*	20	1350				18.1	6.65	1597	2.22	1.70	189.6	
	25	1355		53.61		18.1	6.65	1597	2.21	1.78	189.4	
	30	1400										
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time: ID 08 7-16-24 Time 1400

ABBREVIATIONS

Cond - Actual Conductivity
Ft - Feet Below Top of Casing
Ft - Not Measured
dm - Not Measured
°C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin</u>		Client: <u>Vistra</u>		Start Date: <u>7/16/2024</u>		Time: <u>1510</u>						
Project Number: <u>2024.0054</u>		Task #: _____		Finish Date: <u>07/16/2024</u>		Time: <u>1538</u>						
Field Personnel: <u>G. Acallany</u>		Casing ID: <u>52A-08D</u>		Inches: _____		Event Type: <u>Well Development</u>		YSI SERIAL NO <u>24A101225</u>				
WELL INFORMATION		Well Development		Well Volume Approach Sampling		Low-Flow / Low Stress Sampling		Other (Specify): <u>Low Flow</u>				
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	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/Odor
pre	0	1515	—	54.09	—	15.8	6.96	1.862	3.10	4.62	190.0	clear
purge	5	1520	0.5	54.05	—	15.4	6.68	1.838	0.52	4.23	197.7	clear
↓	10	1525	0.5	54.09	—	15.5	6.68	1.838	0.48	4.67	197.8	↓
↓	15	1530	1	54.09	—	15.4	6.69	1.835	0.22	4.64	197.1	↓
↓	20	1535	1.5	54.08	—	15.3	6.69	1.826	0.18	4.56	196.1	↓
↓	25	1540	1.5	54.06	—	15.4	6.69	1.824	0.28	4.91	195.6	↓
↓	30	1545	2.5	54.08	—							
Final	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)												
Sample ID, date, & time: <u>Sample ID: HEN-08D on 7/16/24</u>												
<u>Sampled at 1546 on 07/16/24</u>												

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visira Start Date: 7/16/2024 Time: 0915
Project Number: 2024.0054 Task #: Same Finish Date: 0945

WELL INFORMATION

Field Personnel: Lorne Well ID: 10 Well Development
Casing ID: 2 Well Volume Approach Sampling

EVENT TYPE

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

YSI SERIAL NO

24E100326

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.01	pH (SU) +/- 0.01	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	0915		50.67		39%	7.14	890	2.67	0.92	176.7	Clear
purge	5	0926		50.65		20.2	7.12	893	1.17	0.72	176.9	
	10	0925				20.3	7.12	897	0.99	0.75	174.3	
	15	0930				20.4	7.11	895	0.96	0.96	172.4	
	20	0935				20.3	7.11	894	0.94	0.64	171.7	
	25	0940				20.3	7.11	894	0.93	0.81	176.8	
	30	0945										
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

ID-10 7-16-24 Time 0945

ABBREVIATIONS

Cond - Actual Conductivity
FT BTQC - Feet Below Top of Casing
nd - Not Applicable
mm - Not Measured

ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin	Client: Vistra	Start Date: 7/15/2024	Time: 1500									
Project Number: 2024.0054	Task #: 7/15/24	Finish Date: 7/15/24	Time: 1600									
Field Personnel: A. Belkoff, P. Asimov												
WELL INFORMATION				EVENT TYPE								
Well ID: HEN-12	Well Development			Low-Flow / Low Stress Sampling			YSI SERIAL NO					
Casing ID:	Well Volume Approach Sampling			Other (Specify): Low Flow			24101225					
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	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/Odor
pre	0	1505	—	51.4	—	18.4	7.60	710	5.47	5.27	46.4	Clear
purge	5	1510	0.5	51.39	0.01	17.4	7.34	677	2.92	5.64	79.6	Clear
↓	10	1515	0.5	51.38	0	17.3	7.33	676	2.85	5.22	88.4	Clear
↓	15	1520	1	51.38	0	17.3	7.33	676	2.82	4.89	95.3	Clear
↓	20	1525	1.5	51.4	0.02	17.3	7.32	677	2.84	4.57	101.0	↓
↓	25	1530	2.5	51.4	0	18.0	7.32	678	2.81	4.02	100.5	↓
↓	30	1535	3.0	51.4	0	18.0	7.32	678	2.79	4.03	108.5	↓
↓	35	1540	3.0	51.4	0	18.0	7.32	678	2.79	4.03	108.5	↓
	40											
	45											
	50											
	55											
	60											
Sample ID, date, & time:				ABBREVIATIONS								
Sampled at: 1545 on 7/15/24				ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units								
Sample ID: Hen-12				Temp - Temperature °C - Degrees Celsius								

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visira Start Date: 7/15/2024 Time: 1600
Project Number: 2024.0054 Task #: _____
Field Personnel: G. Asaillong Finish Date: 07/15/24 Time: 1640

WELL INFORMATION

Well ID: Hen-13 inches
Casing ID: _____
Event Type: Low-Flow / Low Stress Sampling **YSI SERIAL NO** 2461225
Other (Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	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/Odor
pre	0	1610		51.36	0.01	18.1	7.34	307	7.51	2.51	139.3	clear
purge	5	1612	1	51.37	0.01	18.1	7.34	307	7.51	2.51	139.3	clear
↓	10	1617		51.38	0.01	17.8	7.35	685	2.47	4.71	139.0	↓
↓	15	1622	2	51.38	0	17.7	7.35	685	2.47	4.71	138.9	↓
↓	20	1627				17.7	7.35	684	2.37	4.23	138.0	↓
↓	25	1633	3	51.35		17.6	7.35	684	2.37	4.00	139.1	↓
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time: 1635 07/15/24
sample ID: Hen-13

ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra		Start Date: 7/16/2024		Time: 1455						
Project Number: 2024.0054		Task #:		Finish Date: Same		Time:						
Field Personnel: Lorne		Finish Date: Same		Time:								
WELL INFORMATION				EVENT TYPE								
Well ID: 14				Well Development				Low-Flow / Low Stress Sampling				
Casing ID: 2"				Well Volume Approach Sampling				Other (specify): Low Flow				
				YSI SERIAL NO				245100326				
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (feet)	Drawdown (feet)	Temp. (°C) +/- 10%	pH (SU) +/- 0.01	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	1455		54.22		21.7	7.25	818	2.06	1.45	216.4	Clear
purge	5	1500				21.9	7.27	822	2.08	1.30	209.5	
	10	1505		54.22		22.0	7.27	822	2.53	1.13	205.5	
	15	1510				21.9	7.27	823	2.51	1.17	201.0	
*	20	1515		54.22		22.0	7.27	823	2.50	1.15	195.9	
	25	1520				22.0	7.27	823	2.48	1.13	193.5	
	30	1525		54.22		22.1	7.27	823	2.48	1.12	192.9	
	35	1530		54.22								
	40											
	45											
	50											
	55											
	60											
Sample ID, date, & time:				NOTES (continued)				ABBREVIATIONS				
TD 16 7-16-24				Time 1530				ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units				
				Dupe at 1540				Temp - Temperature °C - Degrees Celsius				

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visira Start Date: 8/6/2024 Time: 0845
Project Number: 0054 Task #: 845
Field Personnel: Corne F. Finish Date: Same Time: 0910

WELL INFORMATION

Well ID: 17 Casing ID: 2 (Inches)
Well Development: Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other: YSI SERIAL NO. 3414101283
Heron Serial NO.: 010272X

EVENT TYPE

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	0856		56.12		21.9	7.23	.789	6.89	.88	65.6	Clear
Purge	5	0855		56.12		22.5	7.24	.789	6.91	1.43	78.7	
	10	0900		56.12		22.9	7.24	.789	6.89	1.49	80.3	
	15	0905		56.12		23.0	7.24	.789	6.82	1.41	84.2	
*****	20	0910		56.12		23.0	7.24	.789	6.79	1.43	88.7	
Final	25	0915	2.9AL									
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTDC - Feet Below Top of Casing na -
Not Applicable
nm - Not Measured
°C - Degrees Celsius

ORP - Oxidation-Reduction Potential SEC
Specific Electrical Conductance SU - Standard
Units
Temp. - Temperature
°C - Degrees Celsius

Sample ID: 17Sampled @ 0910 on 8/6/24845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH POND NO. 2 AND NO. 4
HEN-845-802-805

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra										
Project Number: 2024.0054		Task #: 1240		Time: 1240								
Field Personnel: G. Asgaly		Finish Date: 07/16/24		Time: 1337								
WELL INFORMATION				EVENT TYPE								
Well ID: H24-18D		Well Development		Low-Flow / Low Stress Sampling								
Casing ID: inches		Well Volume Approach Sampling		Other (Specify): Low Flow								
YSI SERIAL NO 24A101225												
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µS/cm)	Dissolved Oxygen (%)	Turbidity (NTU)	ORP (mV)	Visual Clarity/Odor
pre	0	1241	—	40.45	—	—	—	—	—	—	—	—
purge	5	1245	—	40.40	—	18.1	7.29	0.784	3.23	6.7	162.7	Clear
↓	10	1250	1	40.30	—	18.9	7.19	0.786	2.01	9.53	167.5	↓
↓	15	1255	1.5	40.55	—	18.4	7.18	0.784	0.53	8.00	166.3	↓
↓	20	1300	2	40.57	—	17.8	7.17	0.788	0.45	8.94	164.4	↓
↓	25	1305	2	40.60	—	18.4	7.18	0.787	0.44	9.00	162.5	↓
↓	30	1310	2.5		—	18.4	7.17	0.783	0.69	8.92	160.4	↓
↓	35	1315	3		—	18.5	7.17	0.785	0.66	8.88	159.4	↓
Final	40											
	45											
	50											
	55											
	60											
NOTES (continued)				ABBREVIATIONS								
Sample ID, date, & time: Sample ID: Hen_18&D				ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units								
Sampled at @ 1317				Temp - Temperature °C - Degrees Celsius								

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra		Start Date: 7/10/2024 Time: 1144								
Project Number: 2024.0054		Task #: 1144		Finish Date: 07/16/2024 Time: 1231								
Field Personnel: George Asalleary												
WELL INFORMATION												
Well ID: Hen-185		Well Development		Well Volume Approach Sampling		Low-Flow / Low Stress Sampling						
Casing ID:		inches				YSI SERIAL NO 24A101225						
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	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/Odor
pre	0	1144	—	40.39	—	—	—	—	—	—	—	—
purge	5	1145	0	—	—	17.3	7.45	0.903	86.7	3.67	139.0	—
↓	10	1150	0.5	—	—	18.0	7.36	0.823	0.74	7.65	148.1	↓
↓	15	1155	1	40.41	—	17.9	7.37	0.811	0.32	5.38	148.1	↓
↓	20	1200	1.5	—	—	17.9	7.37	0.810	0.24	5.12	148.2	↓
↓	25	1205	2	—	—	17.9	7.37	0.811	0.21	4.50	147.2	↓
↓	30	1234	—	—	—	—	—	—	—	—	—	—
↓	35	—	—	—	—	—	—	—	—	—	—	—
↓	40	—	—	—	—	—	—	—	—	—	—	—
↓	45	—	—	—	—	—	—	—	—	—	—	—
↓	50	—	—	—	—	—	—	—	—	—	—	—
↓	55	—	—	—	—	—	—	—	—	—	—	—
↓	60	—	—	—	—	—	—	—	—	—	—	—
NOTES (continued)										ABBREVIATIONS		
Sample ID, date, & time: Sampled @ 1206										ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductivity		
Sample ID: Hen-185-6A Sample ID: Hen-187-5										ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductivity		
										Temp. - Temperature		
										nm - Not Measured		



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra Task #: 1240 Time: 1240
Project Number: 8/6/2024
Field Personnel: G. Assalling Finish Date: 8/6/24 Time: 1340

WELL INFORMATION

Well ID: -21R Inches 2
Casing ID: 2

EVENT TYPE

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

YSI SERIAL NO: U123119X
Heron Serial NO: U116738X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	1247	—	6.11	—	—	—	—	—	—	—	6h
Purge	5	1250	0.52	6.22	—	16.8	7.46	0.967	2.92	26.64	-94.7	Clear
	10	1255	0.5	6.34	—	14.3	6.22 7.42	0.973	2.93	31.41	-126.0	" "
	15	1300	1	6.25	—	14.0	7.42	0.969	3.77	23.62	-136.2	" "
*****	20	1305	2	6.21	—	14.0	7.42	0.970	3.86	21.89	-137.4	" "
✓	25	1310	2.5	6.20	—	13.9	7.42	0.969	3.77	21.59	-139.5	" "
Final	30	1335	4	6.25	—	—	—	—	—	—	—	—
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: -21R, -21RMS -21RMSD
Sampled @ 1315 on 8/6/24

ABBREVIATIONS

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

ATTACHMENT B.
\$45 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASSESSMENTS NO. 2 AND NO. 4
HEN-845-802-805

MSMSD
21R @ 1315
21R - MS
21R - MS - MSD

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visira Task #: 1525 Time: 1525
 Project Number: 8/15/2024
 Field Personnel: G. Ascalon Finish Date: 8/6/24 Time: 1600

WELL INFORMATION

Well ID: 22 Inches 2'

EVENT TYPE

Well Development
Well Volume Approach Sampling

Low-Flow/ Low Stress Sampling Other
(Specify) Low Flow
YSI SERIAL NO: 1225130
Heron Serial NO: 4116738

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	1525	—	18.58	—	—	—	—	—	—	—	—
Purge	5	1536	0.5	18.64	—	16.6	7.66	0.875	4.30	0.77	75.1	Clear
	10	1535	0.5	18.71	—	15.9	7.52	0.871	3.18	1.36	63.1	" "
	15	1540	1	18.69	—	15.9	7.53	0.869	3.19	1.09	56.4	" "
****	20	1545	2	18.63	—	15.9	7.53	0.869	3.16	1.17	55.4	" "
Final	25	1552	—	18.58	—	—	—	—	—	—	—	—
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 22
 Sampled @ on 8/16/2024

ABBREVIATIONS

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

1550



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION			
Site: <u>Hennepin</u>	Client: <u>Vistra</u>	Start Date: <u>8/6/2024</u>	Time: <u>1444</u>
Project Number: <u>6. Assembly</u>	Task #: <u>3/6/24</u>	Finish Date: <u>8/6/24</u>	Time: <u>1525</u>
Field Personnel: <u>G. Asally</u>			
WELL INFORMATION			
Well ID: <u>ZzD</u>	Well Development: <u>2" Inches</u>	Well Volume Approach Sampling	Event Type: <u>Low Flow / Low Stress Sampling Other</u>
Casing ID: <u>2</u>			YSI SERIAL NO: <u>41223187</u> Heron Serial NO: <u>4116733x</u>

WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	1445	—	20.0	—	—	—	—	—	—	—	—
Purge	5	1450	0.32	20.36	—	17.6	7.31	0.935	3.70	4.65	92.3	Clear
	10	1455	0.5	19.72	—	16.5	7.21	0.947	1.57	3.99	-56.3	" "
	15	1500	1	19.43	—	16.5	7.21	0.950	4.01	3.70	-77.5	" "
*****	20	1505	1.5	19.39	—	16.5	7.22	0.950	1.07	3.56	-84.2	" "
↓	25	1510	2	19.35	—	16.5	7.22	0.951	0.94	3.14	-82.2	" "
Final	30	1522		19.40								
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)		ABBREVIATIONS	
Sample ID: <u>-22D</u>		COND - Actual Conductivity	ORP - Oxidation-Reduction Potential SEC
Sampled @ <u>1515</u> on <u>8/6/24</u>		FT BTOP - Feet Below Top of Casing na	Specific Electrical Conductance SU - Standing
		Na - Not Applicable	Units
		nm - Not Measured	Temp - Temperature
			°C - Degrees Celsius

1515



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra Start Date: 7/18/2024 Time: 0840
 Project Number: 2024.0054 Task #: _____
 Field Personnel: En. Angelo Finish Date: 07/18/24 Time: 0955

WELL INFORMATION

Well ID: Hen-23 inches
 Casing ID: _____
 EVENT TYPE
 Low-Flow / Low Stress Sampling YSI SERIAL NO
 Other (Specify): Low Flow 41223181

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µscm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity/Odor
pre	0	0841	—	16.51	—	—	7.31	1.077	1.74	10.54	—	—
purge	5	0845	0.5	16.64	—	13.6	7.47	1.076	0.25	9.42	-52.8	Clear
↓	10	0850	0.5	16.72	—	13.5	7.45	1.072	0.21	10.39	-97.3	↓
↓	15	0855	1	16.80	—	13.5	7.45	1.069	0.18	12.60	-100.3	↓
↓	20	0900	2	16.85	—	13.5	7.48	1.068	0.16	19.96	-99.4	↓
↓	25	0905	3	16.79	—	13.5	7.49	1.067	0.16	19.66	-95.0	↓
↓	30	0910	4	16.72	—	13.6	7.50	1.067	0.15	16.58	-91.3	↓
↓	35	0915	4.5	16.77	—	13.6	7.51	1.067	0.14	11.48	-87.0	↓
↓	40	0920	5	16.80	—	13.6	7.51	1.066	0.14	12.54	-85.3	↓
↓	45	0925	5.5	16.82	—	13.6	7.51	1.066	0.14	13.8	-82.9	↓
↓	50	0930	6.5	16.68	—	13.6	7.51	1.066	0.14	15.49	-80.4	↓
↓	55	0935	7	16.72	—	13.6	7.51	1.065	0.13	15.49	-78.6	↓
↓	60	0940	7.5	16.84	—	13.4	7.51	1.066	0.13	16.84	-78.1	↓

NOTES (continued)

Sample ID, date, & time: Sample ID: Hen-23
Sampled at 0945 on 7/18/24

ABBREVIATIONS

Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential
m - 100 Feet Below Top of Casing	SEC - Specific Electrical Conductance
mm - Not Measured	SU - Standard Units
	Temp - Temperature
	°C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 8/16/2024 Time: 1018
Field Personnel: G. Assalony Finish Date: 8/16/2024 Time: 1055

WELL INFORMATION

Well ID: 21
Casing ID: 2" Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling

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

YSI SERIAL NO: L1223182
Heron Serial NO: 446728 X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	1020	0	4.46	—	—	—	—	—	—	—	—
Purge	5	1025	0.5	4.43	—	12.9	7.12	0.950	0.43	10.15	1.9	Clear
	10	1030	1	4.41	—	12.8	7.11	0.950	0.23	7.89	-6.7	" "
	15	1035	1.5	4.43	—	12.8	7.11	0.950	0.16	5.75	-11.3	" "
****	20	1040	3	4.42	—	12.7	7.11	0.949	0.11	6.57	-14.7	" "
End	25	1055	3.5	4.34	—	—	—	—	—	—	—	—
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 27

Sampled @ 1045 on 8/16/2024

ABBREVIATIONS

Cond. - Actual Conductivity
FT BT OC - Feet Below Top of Casing na -
Not Applicable
nm - Not Measured

ORP - Oxidation-Reduction Potential SEC -
Specific Electrical Conductance SU - Standard
Units
Temp. - Temperature
C - Degrees Celsius

Sampled @ 1045

845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH POND NO. 2 AND NO. 4
HEN-845-802-805

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visira
Project Number: Task #: Start Date: 8/6/2024 Time: 0930
Field Personnel: G. Asaill Finish Date: 8/6/2024 Time: 1015

WELL INFORMATION

Well ID: SZ
Casing ID: 2 inches

EVENT TYPE

Well Development
Well Volume Approach Sampling

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

YSI SERIAL NO: 4172318X
Heron Serial NO: U116738X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	0930	—	5.48	—	—	—	—	—	—	—	GA
Purge	5	0935	0.32	5.30	—	13.3	7.11	0.821	2.69	16.25	73.5	Clear
	10	0940	2	5.45	—	13.3	7.06	0.819	2.40	3.43	74.1	" "
	15	0945	3	5.48	—	13.4	7.05	0.818	0.80	5.72	75.5	" "
*****	20	0950	4	5.65	—	13.3	7.08	0.818	0.65	4.06	69.4	" "
↓	25	0955	5	5.45	—	13.4	7.06	0.817	0.62	2.25	68.4	" "
Final	30	1000	6	5.35	—	—	—	—	—	—	—	—
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: —32
Sampled @ 1000 on 8/6/2024

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing
Not Applicable
mm - Not Measured
Temp - Temperature
°C - Degrees Celsius

ORP - Oxidation-Reduction Potential SEC
Specific Electrical Conductance SU - Standard Units

Sampled @ 1000

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visira
Project Number: Task #: Start Date: 8/6/2024 Time: 0847
Field Personnel: G. Asailler Finish Date: 8/6/2024 Time: 0920

WELL INFORMATION

Well ID: 34
Casing ID: 2nd Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling

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

YSI SERIAL NO: U12218X
Heron Serial NO: U116738X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	0840	—	8.25	—	—	—	—	—	—	—	Col
Purge	5	0845	0.5	8.32	—	12.9	7.20	1.107	3.54	12.49	-75.6	6120x
	10	0850	0.5	8.40	—	13.1	7.02	1.071	0.74	15.07	-93.5	" "
	15	0855	1	8.37	—	13.1	6.99	1.075	0.28	14.02	-98.7	" "
*****	20	0900	1.5	8.30	—	13.1	6.98	1.074	0.20	13.17	-100.00	" "
↓	25	0905	2	8.22	—	12.6	6.99	1.082	0.15	13.79	-101.7	" "
Final	30	0915	2.5	8.31	—	—	—	—	—	—	—	—
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing na -
Not Applicable
nm - Not Measured
°C - Degrees Celsius

Sample ID: 34
Sampled @ 0910 on 8/6/2024

845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

ATTACHMENT B.

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION	
Site: <u>Hennepin</u>	Client: <u>Vistra</u>
Project Number: <u>Task #:</u>	Start Date: <u>8/6/2024</u> Time: <u>110</u>
Field Personnel: <u>G. Asally</u>	Finish Date: <u>8/4/2024</u> Time: <u>1200</u>
WELL INFORMATION	
Well ID: <u>33</u>	Well Development
Casing ID: <u>2"</u> Inches	Well Volume Approach Sampling
EVENT TYPE	
Low-Flow / Low Stress Sampling Other	
YSI SERIAL NO: <u>4122318X</u>	
Heron Serial NO: <u>416388</u>	

WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	1112	—	8.39	—	—	—	—	—	—	—	CA
Purge	5	1115	0.5	8.45	—	15.9	6.88	1.810	1.00	5.17	106.5	Clear
	10	1120	0.5	8.49	—	15.8	6.85	1.728	0.32	2.07	111.0	" "
	15	1125	1	8.51	—	15.8	6.85	1.718	0.18	6.85	113.5	" "
*****	20	1130	1.5	8.42	—	15.8	6.85	1.723	0.14	6.85	114.6	" "
Final	25	1152	3	8.39	—	—	—	—	—	79.47	—	—
	30											66
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)	
Sample ID: <u>735</u>	
Sampled @ <u>1135</u> on <u>8/6/2024</u>	
Duplicate	

Field @ 1135

Dup



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vista		Start Date: 7/16/2024 Time: 1440 GA								
Project Number: 2024.0054		Task #: 1420		Finish Date: 07/16/2024 Time: 1452								
Field Personnel: S. Assa												
WELL INFORMATION				EVENT TYPE								
Well ID: H21A-465		Well Development		Low-Flow / Low Stress Sampling								
Casing ID: inches		Well Volume Approach Sampling		Other (Specify): Low Flow								
YSI SERIAL NO 24A101225												
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	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/Odor
pre	0	1421		40.38		17.8	7.84	0.723	0.90		4/- 10.4	
purge	5	1425		40.38		17.8	7.84	0.718	0.26	25.21	92.3	6180
↓	10	1430		40.38		17.8	7.84	0.715	0.20	9.90	110.3	↓
↓	15	1435		40.38		17.8	7.83	0.714	0.18	9.03	115.2	↓
↓	20	1440		40.38		17.8	7.83	0.714	0.18	8.50	118.1	↓
Final	25	1445		40.38								
	30											
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: Hen-4045										Cond. - Actual Conductivity		
Sampled at 1443 on 07/16/24										FT - Feet below top of Casing		
										m - Not Applicable		
										°C - Degrees Celsius		
										°C - Degrees Celsius		

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: <u>Visira</u>		Start Date: <u>7/16/2024</u>		Time: <u>0807</u>						
Project Number: <u>2024.0054</u>		Task #: _____		Finish Date: <u>07/16/2024</u>		Time: <u>0907</u>						
Field Personnel: <u>G. Assallery</u>												
WELL INFORMATION				EVENT TYPE								
Well ID: <u>Hen-455</u>		inches		Well Development		Well Volume Approach Sampling		Low-Flow / Low Stress Sampling				
Casing ID: _____				Well Volume Approach Sampling		Other (Specify): Low Flow		YSI SERIAL NO <u>24101225</u>				
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.01	SEC or Cond. (uS/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	0807	—	20.26	—	—	—	—	—	—	—	—
purge	5	0810	0	20.24	—	19.7	7.10	0.911	1.73	37.54	13.9	Clear
↓	10	0815	0	20.25	—	19.6	7.08	0.916	0.45	32.18	57.7	↓
↓	15	0820	1	20.23	—	19.6	7.07	0.913	0.21	22.48	76.7	↓
↓	20	0825	1	20.22	—	19.6	7.07	0.911	0.18	16.01	84.9	↓
↓	25	0830	2	20.24	—	19.6	7.07	0.910	0.17	12.34	90.0	↓
↓	30	0835	3	20.23	—	19.7	7.07	0.912	0.18	12.10	94.5	↓
↓	35	0840	4	20.23	—	19.7	7.07	0.911	0.17	12.12	96.2	↓
Final	40	0842	5	20.22	—	—	—	—	—	—	—	—
	45											
	50											
	55											
	60											
NOTES (continued)												
Sample ID, date, & time: Sampled (a) 0842 on 07/16/24												
Sample ID: Hen-455												

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visita
 Project Number: 6054 Task #: 8/6/2024 Time: 0930
 Field Personnel: Lorne F. Finish Date: Same Time: 0955

WELL INFORMATION

Well ID: 46 Casing ID: 2" Inches
 Well Development
 Well Volume Approach Sampling
 Low-Flow / Low Stress Sampling Other
 (Specify): Low Flow
 YSI SERIAL NO: 249101225
 Heron Serial NO: U102.112x

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	0930		51.61								
Purge	5	0935		51.80		19.8	7.32	.859	4.44	1.38	115.5	Clear
	10	0940		51.80		19.7	7.32	.857	2.05	1.50	117.9	
	15	0945		51.80		19.6	7.23	.858	1.97	1.54	117.0	
*****	20	0950		51.83		19.6	7.24	.857	1.96	1.50	116.5	
	25	0955	2.56	51.83		19.5	7.24	.857	1.94	1.51	116.6	
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 46
 Sampled @ 0955 on 8/6/24

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visira
Project Number: 0054 Task #: 100 Start Date: 8/16/2024 Time: 11:00
Field Personnel: Lorne F. Finish Date: 8/16/2024 Time: 11:20

WELL INFORMATION

Well ID: 47 2 Inches
Casing ID: 2

EVENT TYPE

Well Development
Well Volume Approach Sampling

Low-Flow / Low Stress Sampling Other
(Specify): Low Flow
YSI SERIAL NO: 2441225
Heron Serial NO: 0102112X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	1100		55.90								
Purge	5	1105		55.90		18.5	7.14	910	3.46	1.13	143.6	
	10	1110		55.90		18.6	7.17	907	2.88	.33	143.7	
	15	1115		55.90		18.5	7.17	907	2.78	.27	143.5	
*****	20	1120	26 GAL	55.90		18.4	7.17	907	2.77	.44	143.5	
	25											
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 47

Sampled @ 1120 on 8/16/24

ABBREVIATIONS

Cons - Actual Conductivity
FT BTOC - Feet Below Top of Casing na -
Not Applicable
nm - Not Measured
Temp - Temperature
°C - Degrees Celsius

ORP - Oxidation-Reduction Potential SEC -
Specific Electrical Conductance SU - Standard
Units

845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH POND NO. 2 AND NO. 4
HEN-845-802-805

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/18/2024 Time: 0830
Field Personnel: Lorne Finish Date: Dave Time:

WELL INFORMATION

Well ID: 484R
Casing ID: 24
Inches: NoBladder
EVENT TYPE: Low-Flow / Low Stress Sampling
Other (Specify): Low Flow
YSI SERIAL NO: 245100 326

Well Development
Well Volume Approach Sampling

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 10%	pH (SU) +/- 0.01	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	0835		40.53		18.6	7.70	909	.50	209.17	127.5	cloudy
purge	5	0845		40.53		18.6	7.70	909	.20	55.29	121.7	↓
	10	0850		40.53		18.5	7.69	909	.19	27.14	115.2	clear
	15	0855		40.53		18.6	7.69	910	.19	13.19	110.3	↓
*	20	0900		40.53		18.6	7.69	910	.18	8.56	109.1	↓
	25	0905	2.621	40.53								
	30	0910										
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

ID 484R 7-18-24 @ 0905

ABBREVIATIONS

Cond - Actual Conductivity
FI BOC - Feet Below Top of Casing
Temp - Temperature
m - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
°C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin</u>		Client: <u>Vistra</u>		Start Date: <u>08/06/2024</u>		Time: <u>1345</u>						
Project Number: _____		Task #: _____		Finish Date: <u>08/06/2024</u>		Time: <u>1445</u>						
Field Personnel: <u>G. Arraling</u>												
WELL INFORMATION				EVENT TYPE								
Well ID: <u>Hen-49</u>				Well Development		Low-Flow / Low Stress Sampling						
Casing ID: <u>2</u> inches				Well Volume Approach Sampling		(Specify): Low Flow						
						YSI SERIAL NO: <u>412318X</u> Heron Serial NO: <u>416738X</u>						
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	1350	—	22.71	—	—	—	—	—	—	—	—
Purge	5	1355	0.5	22.42	—	14.7	7.04	0.940	0.67	12.35	54.6	Clear
	10	1400	0.5	21.74	—	15.0	7.03	0.938	0.45	9.58	60.3	" "
	15	1405	1	21.71	—	15.0	7.02	0.937	0.35	2.97	62.3	" "
*****	20	1410	1.5	21.72	—	15.0	7.02	0.939	0.20	2.74	66.4	" "
↓	25	1415	2.5	21.69	—	15.0	7.03	0.939	0.18	3.30	59.7	" "
Final	30	1435	—	21.71	—	—	—	—	—	—	—	—
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: <u>Hen-49</u> , <u>49ms</u> , <u>49msD</u>										Cond - Actual Conductivity		
Sampled @ <u>1420 on 8/6/2024</u>										FT BTOC - Feet Below Top of Casing na -		
										Not Applicable		
										Temp - Temperature		
										nm - Not Measured		
										°C - Degrees Celsius		

MSMSD
 1420

- 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
Project Number: 6054 Task #: Start Date: 8/6/2024 Time: 15:10
Field Personnel: Lorne F. Finish Date: Same Time: 1535

WELL INFORMATION

Well ID: 50-2 (Inches)
Casing ID:

EVENT TYPE

Well Development
Well Volume Approach Sampling

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

YSI SERIAL NO: 24419215
Heron Serial NO: 0102-112-X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	1510		18.37				1.168	1.70	2.69	130.7	Clear
Purge	5	1515		18.37		16.6	7.30	1.176	1.13	1.32	135.4	
	10	1520		18.37		16.4	7.36	1.178	1.13	1.42	136.4	
	15	1525		18.37		16.3	7.36	1.176	1.09	1.37	136.5	
*****	20	1530		18.37		16.3	7.37	1.175	1.00	1.35	136.6	
	25	1535		18.37		16.4	7.37					
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 50
Sampled @ 1535 on 8/6/24

ABBREVIATIONS

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

845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH POND NO. 2 AND NO. 4
HEN-845-802-805

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra Task #: 2024.0054 Start Date: 7/18/2024 Time: 1006
Project Number: 2024.0054
Field Personnel: C. Aisollon Finish Date: 07/18/24 Time:

WELL INFORMATION

Well ID: HEN-51 inches
Casing ID:

EVENT TYPE

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

YSI SERIAL NO
4122318X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 10%	pH (SU) +/- 0.01	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	1001	—	17.88	—	—	—	—	—	—	—	—
purge	5	1005	0.5	17.92	—	13.4	7.33	0.948	1.12	22.37	-105.3	Clear
↓	10	1010	1	18.05	—	13.8	7.37	0.955	0.50	21.52	-123.3	↓
↓	15	1015	1.5	18.18	—	13.3	7.38	0.956	0.36	19.85	-128.4	↓
↓	20	1020	2		—	13.7	7.38	0.956	0.32	20.04	-129.1	↓
Final	25	10										
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

Well ID: HEN-51
Sampled @ 1025 on 07/18/24

ABBREVIATIONS

Cond - Actual Conductivity
pH - pH Below Top of Casing
T - Temperature
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
°C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visira
 Project Number: 0054 Task #: 1145 Start Date: 8/6/2024 Time: 1145
 Field Personnel: Lorne F. Finish Date: Same Time: 1205

WELL INFORMATION

Well ID: 52 Casing ID: 2 (Inches)

EVENT TYPE

Well Development
 Well Volume Approach Sampling

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

YSI SERIAL NO: 24101225
 YSI Serial NO: U102-112X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	1145		54.01								
Purge	5	1150		54.01		19.7	7.13	924	3.16	3.54	123.7	
	10	1155		54.01		19.9	7.05	932	1.15	1.39	127.0	
	15	1200		54.05		20.0	7.04	932	1.00	1.29	127.2	
*****	20	1205	2.6A1	54.05		20.0	7.04	932	0.98	1.20	126.9	
	25	1210										
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 52
 Sampled @ 1205 on 8/6/24

ABBREVIATIONS

Cond - Actual Conductivity
 F10C - Feet Below Top of Casing na -
 Not Applicable
 Temp - Temperature
 °C - Degrees Celsius

ORP - Oxidation-Reduction Potential SEC -
 Specific Electrical Conductance SU - Standard
 Units



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visita Start Date: 8/6/2024 Time: 1015
 Project Number: 0054 Task #: Same Finish Date: 1040 Time: 1040
 Field Personnel: Corne, F.

WELL INFORMATION

Well ID: 54 2 (Inches)
 Casing ID: 2
 Well Development: Well Volume Approach Sampling
 Low-Flow / Low Stress Sampling Other (Specify): Low Flow
 YSI SERIAL NO: 244101225
 Heron Serial NO: U102112-X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	1015		53.59								
Purge	5	1020		53.60		17.1	7.40	.870	5.30	1.11	119.4	Clear
	10	1025		53.62		18.7	7.28	.871	3.33	.51	124.7	
	15	1030		53.64		19.0	7.28	.874	3.18	.47	124.6	
*****	20	1035		53.66		19.0	7.29	.874	3.16	.61	124.8	
	25	1040	2.56	53.68		19.0	7.29	.874	3.07	.81	124.9	
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 54
 Sampled @ 1040 on 8/6/24

ABBREVIATIONS

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

Dupe @ 1045



SAR-3: Episodic Depth to Groundwater Measurements

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

Plant: HEN
Event: HEN-24Q3 Rev 0

Well	Unique ID	Date	Time	Measured		Dedicated Pump?	Dedicated Tubing?	als
				DTW	Comments			Initials
02 L	HEN_02							
04R L	HEN_04R							
05R L	HEN_05!R							
05DR L	HEN_05&DR							
06	HEN_06	7/15/24	1210	22.72	33.19:DTP	Y	Y	AB
10 L	HEN_10							
11 L	HEN_11							
15 L	HEN_15							
19SR L	HEN_19#SR							
19D L	HEN_19&D							
25	HEN_25	7/15/24	0918	15.80	DTP: 18.15	Y	Y	AB
26	HEN_26	7/15/24	0920	15.94	DTP: 27.4	Y	Y	AB
30	HEN_30	7/15/24	0928	4.5	DTP: 21.3	Y	Y	AB
31	HEN_31	7/15/24	0930	6.43	DTP: 10.25	Y	Y	AB
33	HEN_33	7/15/24	1100	3.72	DTP: 38.21	Y	Y	AB
36	HEN_36	7/15/24	0905	15.3	DTB: 28.8	N	N	AB
40S L	HEN_40#S							
45S	HEN_45#S	7/15/24	1215	11.36	DTP: 38.53	Y	Y	AB
48R L	HEN_48R							
XPW01	HEN_XPW01_pore	7/15/24	1203	11.12	DTB: 19.77	N	N	AB
XPW02	HEN_XPW02_pore	7/15/24	1200	15.33	DTB: 21.75	N	N	AB
XPW03	HEN_XPW03_pore	7/15/24	1130	6.41	DTB: 22.01	N	N	AB
* SG02	HEN_YSG_ILRIVER	see	SAR 4	SG03				

has transducer

U: 05/02/24 JRK

SAR-3: Episodic Depth to Groundwater Measurements

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

Plant: HEN
Event: HEN-24Q3 Rev 0

Well	Unique ID	Date	Time	Measured		Dedicated Pump?	Dedicated Tubing?	als
				DTW	Comments			Initials
02	HEN_02	7-15-24	1055	45.02		Y	Y	LF
04R	HEN_04R	7-15-24	1155	45.37		Y	Y	LF
05R	HEN_05!R	7-15-24	1240	41.27		Y	Y	LF
05DR	HEN_05&DR	7-15-24	1250	41.23		Y	Y	LF
06	HEN_06							
10	HEN_10	7-15-24	0930	50.78		Y	Y	LF
11	HEN_11	7-15-24	0925	51.03		NO	NO	LF
15	HEN_15	7-15-24	1130	49.65		YES	YES	LF
19SR	HEN_19#SR	7-15-24	1210	37.59		NO	NO	LF
19D	HEN_19&D	7-15-24	1200	40.11		YES	YES	LF
25	HEN_25							
26	HEN_26							
30	HEN_30							
31	HEN_31							
33	HEN_33							
36	HEN_36							
40S	HEN_40#S	7-15-24	1225	40.55		Y	Y	LF
45S	HEN_45#S							
48R	HEN_48R	7-15-24	1230	40.80		N	N	LF
XPW01	HEN_XPW01_pore							
XPW02	HEN_XPW02_pore							
XPW03	HEN_XPW03_pore							
SG02	HEN_YSG_ILRIVER							

53 HEN 53 7-15-24 0955 55.62 U: 05/02/24 JRK NO NO LF

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.
Plant: HEN
Event: HEN-24Q3 Rev 0

Well	Unique ID	Date	Time	Measured DTW	On-site Transducer Data					Comments	Dedicated Pump?	Dedicated Tubing?	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				21615140								
07	HEN_07	7-15-24	1425	67.77	21615139	Yes	450.638	Y	H	DTP 7227	Y	Y	LF
08	HEN_08	7-15-24	1025	53.25	21615138	Yes	447.680	Y	H	DTP 5705	Y	Y	LF
08D	HEN_08&D	7-15-24	1013	54.24	21921673	Yes	447.188	Y	H	DTP 5424	Y	Y	LF DTP 8428
12	HEN_12				21615520								
13	HEN_13				21615515								
16	HEN_16	7-15-24	1105	54.42	21615534	Yes	447.130	Y	H	DTP 6078	Y	Y	LF
17	HEN_17	7-15-24	1125	56.41	21615500	Yes	450.810	Y	H	DTP 61.98	Y	Y	LF
18S	HEN_18#S	7-15-24	1310	40.60	21615482	Yes	447.103	Y	H	DTP 42.99	Y	Y	LF
18D	HEN_18&D	7-15-24	1300	40.77	21615609	Yes	446.480	Y	H	DTP 7229	Y	Y	LF
21R	HEN_21R				21615613								
22	HEN_22				21615497								
22D	HEN_22&D				21564134								
23	HEN_23				21615600								
27	HEN_27				21615576								
32	HEN_32				21615487								
34	HEN_34				21615509								
35	HEN_35				21615510								
46	HEN_46				21615491								
47	HEN_47				21615505								
49	HEN_49				21629307								
50	HEN_50				21615489								
51	HEN_51				21615608								
52	HEN_52	7-15-24	0940	60.98	21615145	Yes	447.195	Y	H	DTP 6098	Y	Y	LF 60.98
54	HEN_54				21615143								
55	HEN_55				21615612								
XSG01	HEN_XSG01				21768087								
SG03	HEN_YSG03				21768088								

Notes:
Batt = battery
bmp = below measuring point
ft = feet
H = high
L = low
M = medium
R = replaced

U: 05/02/24 JRK

R601-Hen

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.
Plant: HEN
Event: HEN-24Q3 Rev 0

Well	Unique ID	Date	Time	Measured DTW	On-site Transducer Data					Comments	Dedicated Pump?	Dedicated Tubing?	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	7/15/24	1305	35.04	21615140	Y	447.19	Y	H	DTP: 77.08	Y	Y	AB
07	HEN_07				21615139								
08	HEN_08				21615138								
08D	HEN_08&D				21921673								
12	HEN_12	7/15/24	1135	51.41	21615520	Y	447.29	Y	H	DTP: 52.32	Y	Y	AB
13	HEN_13	7/15/24	1140	51.34	21615515	Y	444.07	Y	H	DTP: 62.02	Y	Y	AB
16	HEN_16				21615534								
17	HEN_17				21615500								
18S	HEN_18#S				21615482								
18D	HEN_18&D				21615609								
21R	HEN_21R	7/15/24	1010	5.81	21615613	Y	446.52	Y	H	DTP: 45.63	Y	Y	AB
22	HEN_22	7/15/24	1040	18.39	21615497	Y	446.34	Y	H	DTP: 27.4	Y	Y	AB
22D	HEN_22&D	7/15/24	1045	19.11	21564134	Y	446.53	Y	H	DTP: 53.12	Y	Y	AB
23	HEN_23	7/15/24	1025	14.82	21615600	Y	446.77	Y	H	DTP: 35.2	Y	Y	AB
27	HEN_27	7/15/24	0935	4.12	21615576	Y	446.66	Y	M	DTP: 30.41	Y	Y	AB
32	HEN_32	7/15/24	0945	5.01	21615487	Y	446.69	Y	H	DTP: 13.34	Y	Y	AB
34	HEN_34	7/15/24	1000	6.67	21615509	NO TRANSDUCER				DTP: 30.21	Y	Y	AB
35	HEN_35	7/15/24	0910	8.25	21615510	Y	446.43	Y	H	DTP: 14.09	Y	Y	AB
46	HEN_46	7/15/24	1125	51.62	21615491	Y	446.83	Y	H	DTP: 55.00	Y	Y	AB
47	HEN_47	7/15/24	1150	55.87	21615505	Y	447.10	Y	H	DTP: 58.76	Y	Y	AB
49	HEN_49	7/15/24	1030	21.5	21629307	Y	446.89	Y	H	DTP: 38.63	Y	Y	AB
50	HEN_50	7/15/24	0845	18.11	21615489	Y	446.07	Y	H	DTP: 25.2	Y	Y	AB
51	HEN_51	7/15/24	1020	18.29	21615608	Y	446.57	Y	H	DTP: 58.45	Y	Y	AB
52	HEN_52				21615145								
54	HEN_54	7/15/24	1147	53.32	21615143	Y	447.14	Y	H	DTP: 69.14	Y	Y	AB
55	HEN_55	7/15/24	1045	50.91	21615612	Y	447.90	Y	H	DTP: 94.06	Y	Y	AB
XSG01	HEN_XSG01	7/15/24	1120	10.14	21768087	Y	483.47	Y	H	—	N	N	AB
SG03	HEN_YSG03	7/15/24	1230	5.25	21768088	Y	8.835	Y	M	—	N	N	AB

Notes:
Batt = battery
bmp = below measuring point
ft = feet
H = high
L = low
M = medium
R = replaced

U: 05/02/24 JRK

RG01 HEN-RG01
(record serial No.)

7/15/24 data downloaded @ 1300

Serial no:
-52492 or 21628684

ANALYTICAL REPORT

PREPARED FOR

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

Generated 09/06/24 15:03:05

JOB DESCRIPTION

HEN-24Q3
HEN_000_RAD

JOB NUMBER

500-253560-2

Job Notes

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

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

Authorization



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Authorized for release by
Dirk Nelson, Project Management Assistant II
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(708)534-5200

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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
IN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Client: Vistra Energy Corp
Project: HEN-24Q3

Job ID: 500-253560-2

Job ID: 500-253560-2

Eurofins Chicago

Job Narrative 500-253560-2

Receipt

The samples were received on 07/16/24 13:05. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 18 coolers at receipt time were -0.2° C, 0.8° C, 0.9° C, 0.9° C, 1.6° C, 1.7° C, 3.1° C, 4.0° C, 4.2° C, 5.7° C, 5.7° C, 5.7° C, 5.9° C, 9.1° C, 11.3° C, 11.8° C, 11.8° C and 12.7° C.

Receipt Exceptions

Received bottles for samples 28 & 32 marked out on the COC, logged them in. HEN_27 (500-253560-28) and HEN_35_FD (500-253560-32)

The following samples from the July sampling event were received at the laboratory outside the required temperature criteria: HEN_17 (500-253560-24), HEN_21R (500-253560-25), HEN_21R_MS (500-253560-25[MS]), HEN_21R_MSD (500-253560-25[MSD]), HEN_22 (500-253560-26), HEN_22&D (500-253560-27), HEN_27 (500-253560-28), HEN_32 (500-253560-29), HEN_34 (500-253560-30), HEN_35 (500-253560-31), HEN_35_FD (500-253560-32), HEN_46 (500-253560-33), HEN_47 (500-253560-34), HEN_49 (500-253560-35), HEN_49_MS (500-253560-35[MS]), HEN_49_MSD (500-253560-35[MSD]), HEN_50 (500-253560-36), HEN_52 (500-253560-37), HEN_54 (500-253560-38) and HEN_54_FD (500-253560-39). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to cancel analysis, pending resampling.

Affected samples were recollected on 08/06/24 and added to the existing login to report together.

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): HEN_FB (500-253560-40) Sample date added to COC to match date of collection of other samples turned in on the COC, default sample time of 00:00 recorded.

RAD

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-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3
SDG: HEN_000_RAD

Client Sample ID: HEN_07	Lab Sample ID: 500-253560-1
☐ No Detections.	
Client Sample ID: HEN_12	Lab Sample ID: 500-253560-2
☐ No Detections.	
Client Sample ID: HEN_13	Lab Sample ID: 500-253560-3
☐ No Detections.	
Client Sample ID: HEN_03R	Lab Sample ID: 500-253560-5
☐ No Detections.	
Client Sample ID: HEN_03R_FD	Lab Sample ID: 500-253560-6
☐ No Detections.	
Client Sample ID: HEN_08	Lab Sample ID: 500-253560-9
☐ No Detections.	
Client Sample ID: HEN_08&D	Lab Sample ID: 500-253560-10
☐ No Detections.	
Client Sample ID: HEN_16	Lab Sample ID: 500-253560-12
☐ No Detections.	
Client Sample ID: HEN_16_FD	Lab Sample ID: 500-253560-13
☐ No Detections.	
Client Sample ID: HEN_18&D	Lab Sample ID: 500-253560-14
☐ No Detections.	
Client Sample ID: HEN_18#S	Lab Sample ID: 500-253560-15
☐ No Detections.	
Client Sample ID: HEN_45#S	Lab Sample ID: 500-253560-17
☐ No Detections.	
Client Sample ID: HEN_23	Lab Sample ID: 500-253560-19
☐ No Detections.	
Client Sample ID: HEN_51	Lab Sample ID: 500-253560-21
☐ No Detections.	
Client Sample ID: FB	Lab Sample ID: 500-253560-22
☐ No Detections.	
Client Sample ID: HEN_17	Lab Sample ID: 500-253560-24
☐ No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_21R	Lab Sample ID: 500-253560-25
☐ No Detections.	
Client Sample ID: HEN_22	Lab Sample ID: 500-253560-26
☐ No Detections.	
Client Sample ID: HEN_22&D	Lab Sample ID: 500-253560-27
☐ No Detections.	
Client Sample ID: HEN_27	Lab Sample ID: 500-253560-28
☐ No Detections.	
Client Sample ID: HEN_32	Lab Sample ID: 500-253560-29
☐ No Detections.	
Client Sample ID: HEN_34	Lab Sample ID: 500-253560-30
☐ No Detections.	
Client Sample ID: HEN_35	Lab Sample ID: 500-253560-31
☐ No Detections.	
Client Sample ID: HEN_35_FD	Lab Sample ID: 500-253560-32
☐ No Detections.	
Client Sample ID: HEN_46	Lab Sample ID: 500-253560-33
☐ No Detections.	
Client Sample ID: HEN_47	Lab Sample ID: 500-253560-34
☐ No Detections.	
Client Sample ID: HEN_49	Lab Sample ID: 500-253560-35
☐ No Detections.	
Client Sample ID: HEN_50	Lab Sample ID: 500-253560-36
☐ No Detections.	
Client Sample ID: HEN_52	Lab Sample ID: 500-253560-37
☐ No Detections.	
Client Sample ID: HEN_54	Lab Sample ID: 500-253560-38
☐ No Detections.	
Client Sample ID: HEN_54_FD	Lab Sample ID: 500-253560-39
☐ No Detections.	
Client Sample ID: HEN_FB	Lab Sample ID: 500-253560-40
☐ No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-253560-2
HEN-24-002905
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-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
SDG: HEN_000_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-253560-1	HEN_07	Water	07/15/24 15:20	07/16/24 13:05
500-253560-2	HEN_12	Water	07/15/24 15:45	07/16/24 13:05
500-253560-3	HEN_13	Water	07/15/24 16:35	07/16/24 13:05
500-253560-5	HEN_03R	Water	07/16/24 09:53	07/17/24 09:40
500-253560-6	HEN_03R_FD	Water	07/16/24 09:53	07/17/24 09:40
500-253560-9	HEN_08	Water	07/16/24 14:00	07/17/24 09:40
500-253560-10	HEN_08&D	Water	07/16/24 15:46	07/17/24 09:40
500-253560-12	HEN_16	Water	07/16/24 15:30	07/17/24 09:40
500-253560-13	HEN_16_FD	Water	07/16/24 15:40	07/17/24 09:40
500-253560-14	HEN_18&D	Water	07/16/24 13:17	07/17/24 09:40
500-253560-15	HEN_18#S	Water	07/16/24 12:06	07/17/24 09:40
500-253560-17	HEN_45#S	Water	07/16/24 08:42	07/17/24 09:40
500-253560-19	HEN_23	Water	07/18/24 09:45	07/18/24 13:00
500-253560-21	HEN_51	Water	07/18/24 10:25	07/18/24 13:00
500-253560-22	FB	Water	07/18/24 08:00	07/18/24 13:00
500-253560-24	HEN_17	Water	08/06/24 09:10	08/07/24 09:05
500-253560-25	HEN_21R	Water	08/06/24 13:15	08/07/24 09:05
500-253560-26	HEN_22	Water	08/06/24 15:50	08/07/24 09:05
500-253560-27	HEN_22&D	Water	08/06/24 15:15	08/07/24 09:05
500-253560-28	HEN_27	Water	08/06/24 10:45	08/07/24 09:05
500-253560-29	HEN_32	Water	08/06/24 10:00	08/07/24 09:05
500-253560-30	HEN_34	Water	08/06/24 09:10	08/07/24 09:05
500-253560-31	HEN_35	Water	08/06/24 11:35	08/07/24 09:05
500-253560-32	HEN_35_FD	Water	08/06/24 11:35	08/07/24 09:05
500-253560-33	HEN_46	Water	08/06/24 09:55	08/07/24 09:05
500-253560-34	HEN_47	Water	08/06/24 11:20	08/07/24 09:05
500-253560-35	HEN_49	Water	08/06/24 14:20	08/07/24 09:05
500-253560-36	HEN_50	Water	08/06/24 15:35	08/07/24 09:05
500-253560-37	HEN_52	Water	08/06/24 12:05	08/07/24 09:05
500-253560-38	HEN_54	Water	08/06/24 10:40	08/07/24 09:05
500-253560-39	HEN_54_FD	Water	08/06/24 10:45	08/07/24 09:05
500-253560-40	HEN_FB	Water	08/06/24 00:00	08/07/24 09:05

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_07
Date Collected: 07/15/24 15:20
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-1
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.280		0.100	0.103	1.00	0.0958	pCi/L	07/18/24 08:48	08/09/24 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					07/18/24 08:48	08/09/24 14:41	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.156	U	0.367	0.367	1.00	0.643	pCi/L	07/18/24 08:52	07/30/24 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					07/18/24 08:52	07/30/24 12:36	1
Y Carrier	78.9		30 - 110					07/18/24 08:52	07/30/24 12:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.436	U	0.380	0.381	5.00	0.643	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_12

Lab Sample ID: 500-253560-2

Date Collected: 07/15/24 15:45

Matrix: Water

Date Received: 07/16/24 13:05

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	0.0849	U	0.0680	0.0684	1.00	0.0982	pCi/L	07/18/24 08:48	08/09/24 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					07/18/24 08:48	08/09/24 14:41	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	0.556		0.362	0.365	1.00	0.529	pCi/L	07/18/24 08:52	07/30/24 12:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					07/18/24 08:52	07/30/24 12:32	1
Y Carrier	80.7		30 - 110					07/18/24 08:52	07/30/24 12:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.641		0.368	0.371	5.00	0.529	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_13
Date Collected: 07/15/24 16:35
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-3
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.106		0.0700	0.0706	1.00	0.0923	pCi/L	07/18/24 08:48	08/09/24 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					07/18/24 08:48	08/09/24 14:41	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	0.0465	U	0.308	0.308	1.00	0.565	pCi/L	07/18/24 08:52	07/30/24 12:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					07/18/24 08:52	07/30/24 12:32	1
Y Carrier	83.4		30 - 110					07/18/24 08:52	07/30/24 12:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.153	U	0.316	0.316	5.00	0.565	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_03R

Lab Sample ID: 500-253560-5

Date Collected: 07/16/24 09:53

Matrix: Water

Date Received: 07/17/24 09:40

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	0.0912		0.0608	0.0614	1.00	0.0763	pCi/L	07/19/24 07:30	08/12/24 23:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		30 - 110					07/19/24 07:30	08/12/24 23:59	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	0.0642	U	0.296	0.296	1.00	0.538	pCi/L	07/19/24 07:33	07/31/24 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		30 - 110					07/19/24 07:33	07/31/24 12:21	1
Y Carrier	83.4		30 - 110					07/19/24 07:33	07/31/24 12:21	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	0.155	U	0.302	0.302	5.00	0.538	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24-002-005
SDG: HEN_000_RAD

Client Sample ID: HEN_03R_FD

Lab Sample ID: 500-253560-6

Date Collected: 07/16/24 09:53

Matrix: Water

Date Received: 07/17/24 09:40

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	-0.000698	U	0.0415	0.0415	1.00	0.0895	pCi/L	07/19/24 07:30	08/12/24 23:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					07/19/24 07:30	08/12/24 23:59	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	-0.105	U	0.293	0.293	1.00	0.573	pCi/L	07/19/24 07:33	07/31/24 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					07/19/24 07:33	07/31/24 12:22	1
Y Carrier	85.2		30 - 110					07/19/24 07:33	07/31/24 12:22	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.000	U	0.296	0.296	5.00	0.573	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_08

Lab Sample ID: 500-253560-9

Date Collected: 07/16/24 14:00

Matrix: Water

Date Received: 07/17/24 09:40

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	0.0845	U	0.0648	0.0652	1.00	0.0917	pCi/L	07/19/24 07:30	08/15/24 09:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					07/19/24 07:30	08/15/24 09:59	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.512	U	0.383	0.386	1.00	0.590	pCi/L	07/19/24 07:33	07/31/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					07/19/24 07:33	07/31/24 12:08	1
Y Carrier	85.2		30 - 110					07/19/24 07:33	07/31/24 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	0.596		0.388	0.391	5.00	0.590	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_08&D

Lab Sample ID: 500-253560-10

Date Collected: 07/16/24 15:46

Matrix: Water

Date Received: 07/17/24 09:40

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	0.112		0.0721	0.0728	1.00	0.0953	pCi/L	07/19/24 07:30	08/13/24 07:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					07/19/24 07:30	08/13/24 07:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.306	U	0.340	0.341	1.00	0.555	pCi/L	07/19/24 07:33	07/31/24 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					07/19/24 07:33	07/31/24 12:08	1
Y Carrier	84.1		30 - 110					07/19/24 07:33	07/31/24 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	0.418	U	0.348	0.349	5.00	0.555	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_16

Lab Sample ID: 500-253560-12

Date Collected: 07/16/24 15:30

Matrix: Water

Date Received: 07/17/24 09:40

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	0.117		0.0746	0.0753	1.00	0.0973	pCi/L	07/19/24 07:30	08/13/24 07:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		30 - 110					07/19/24 07:30	08/13/24 07:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.137	U	0.315	0.316	1.00	0.623	pCi/L	07/19/24 07:33	07/31/24 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		30 - 110					07/19/24 07:33	07/31/24 12:06	1
Y Carrier	84.9		30 - 110					07/19/24 07:33	07/31/24 12:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.117	U	0.324	0.325	5.00	0.623	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_16_FD

Lab Sample ID: 500-253560-13

Date Collected: 07/16/24 15:40

Matrix: Water

Date Received: 07/17/24 09:40

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	0.0891	U	0.0801	0.0805	1.00	0.123	pCi/L	07/19/24 07:30	08/13/24 07:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		30 - 110					07/19/24 07:30	08/13/24 07:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.206	U	0.315	0.316	1.00	0.535	pCi/L	07/19/24 07:33	07/31/24 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		30 - 110					07/19/24 07:33	07/31/24 12:06	1
Y Carrier	84.9		30 - 110					07/19/24 07:33	07/31/24 12:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.295	U	0.325	0.326	5.00	0.535	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_18&D

Lab Sample ID: 500-253560-14

Date Collected: 07/16/24 13:17

Matrix: Water

Date Received: 07/17/24 09:40

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	0.215		0.0907	0.0928	1.00	0.0959	pCi/L	07/19/24 07:30	08/13/24 07:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					07/19/24 07:30	08/13/24 07:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.241	U	0.324	0.325	1.00	0.542	pCi/L	07/19/24 07:33	07/31/24 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					07/19/24 07:33	07/31/24 12:06	1
Y Carrier	84.5		30 - 110					07/19/24 07:33	07/31/24 12:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.457	U	0.336	0.338	5.00	0.542	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_18#S

Lab Sample ID: 500-253560-15

Date Collected: 07/16/24 12:06

Matrix: Water

Date Received: 07/17/24 09:40

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	0.0654	U	0.0654	0.0657	1.00	0.102	pCi/L	07/19/24 07:30	08/13/24 07:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		30 - 110					07/19/24 07:30	08/13/24 07:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.193	U	0.320	0.321	1.00	0.550	pCi/L	07/19/24 07:33	07/31/24 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		30 - 110					07/19/24 07:33	07/31/24 12:07	1
Y Carrier	83.4		30 - 110					07/19/24 07:33	07/31/24 12:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.258	U	0.327	0.328	5.00	0.550	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_45#S

Lab Sample ID: 500-253560-17

Date Collected: 07/16/24 08:42

Matrix: Water

Date Received: 07/17/24 09:40

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	0.155		0.0792	0.0804	1.00	0.0918	pCi/L	07/19/24 07:30	08/13/24 07:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					07/19/24 07:30	08/13/24 07:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.220	U	0.316	0.317	1.00	0.533	pCi/L	07/19/24 07:33	07/31/24 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					07/19/24 07:33	07/31/24 12:07	1
Y Carrier	86.7		30 - 110					07/19/24 07:33	07/31/24 12:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.375	U	0.326	0.327	5.00	0.533	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_23
Date Collected: 07/18/24 09:45
Date Received: 07/18/24 13:00

Lab Sample ID: 500-253560-19
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0446	U	0.0540	0.0542	1.00	0.0884	pCi/L	07/23/24 08:14	08/14/24 15:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					07/23/24 08:14	08/14/24 15:09	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	0.321	U	0.281	0.283	1.00	0.440	pCi/L	07/23/24 08:19	08/02/24 11:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					07/23/24 08:19	08/02/24 11:35	1
Y Carrier	86.4		30 - 110					07/23/24 08:19	08/02/24 11:35	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	0.366	U	0.286	0.288	5.00	0.440	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_51
Date Collected: 07/18/24 10:25
Date Received: 07/18/24 13:00

Lab Sample ID: 500-253560-21
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.614		0.134	0.145	1.00	0.0862	pCi/L	07/23/24 08:14	08/14/24 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					07/23/24 08:14	08/14/24 15:10	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.688		0.347	0.353	1.00	0.470	pCi/L	07/23/24 08:19	08/02/24 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					07/23/24 08:19	08/02/24 11:36	1
Y Carrier	82.2		30 - 110					07/23/24 08:19	08/02/24 11:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.30		0.372	0.382	5.00	0.470	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: FB

Lab Sample ID: 500-253560-22

Date Collected: 07/18/24 08:00

Matrix: Water

Date Received: 07/18/24 13:00

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	0.0463	U	0.0534	0.0535	1.00	0.0860	pCi/L	07/23/24 08:14	08/14/24 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					07/23/24 08:14	08/14/24 15:10	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0205	U	0.262	0.262	1.00	0.498	pCi/L	07/23/24 08:19	08/02/24 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					07/23/24 08:19	08/02/24 11:36	1
Y Carrier	85.6		30 - 110					07/23/24 08:19	08/02/24 11:36	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	0.0463	U	0.267	0.267	5.00	0.498	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_17
Date Collected: 08/06/24 09:10
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-24
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0733	U	0.0635	0.0638	1.00	0.0951	pCi/L	08/09/24 07:54	09/03/24 20:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		30 - 110					08/09/24 07:54	09/03/24 20:20	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	0.671		0.395	0.400	1.00	0.578	pCi/L	08/09/24 07:58	08/21/24 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		30 - 110					08/09/24 07:58	08/21/24 12:24	1
Y Carrier	84.1		30 - 110					08/09/24 07:58	08/21/24 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.745		0.400	0.405	5.00	0.578	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024-06
SDG: HEN_000_RAD

Client Sample ID: HEN_21R

Lab Sample ID: 500-253560-25

Date Collected: 08/06/24 13:15

Matrix: Water

Date Received: 08/07/24 09:05

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	0.454		0.123	0.129	1.00	0.101	pCi/L	08/09/24 07:54	09/03/24 20:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110					08/09/24 07:54	09/03/24 20:20	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	0.918		0.411	0.420	1.00	0.545	pCi/L	08/09/24 07:58	08/21/24 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110					08/09/24 07:58	08/21/24 12:24	1
Y Carrier	84.9		30 - 110					08/09/24 07:58	08/21/24 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.37		0.429	0.439	5.00	0.545	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_22

Lab Sample ID: 500-253560-26

Date Collected: 08/06/24 15:50

Matrix: Water

Date Received: 08/07/24 09:05

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	0.0751	U	0.0574	0.0578	1.00	0.0793	pCi/L	08/09/24 07:54	09/03/24 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					08/09/24 07:54	09/03/24 20:21	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	0.0272	U	0.289	0.289	1.00	0.536	pCi/L	08/09/24 07:58	08/21/24 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					08/09/24 07:58	08/21/24 12:24	1
Y Carrier	83.0		30 - 110					08/09/24 07:58	08/21/24 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.102	U	0.295	0.295	5.00	0.536	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_22&D

Lab Sample ID: 500-253560-27

Date Collected: 08/06/24 15:15

Matrix: Water

Date Received: 08/07/24 09:05

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	0.446		0.116	0.123	1.00	0.0846	pCi/L	08/09/24 07:54	09/03/24 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		30 - 110					08/09/24 07:54	09/03/24 20:21	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	0.933		0.382	0.391	1.00	0.488	pCi/L	08/09/24 07:58	08/21/24 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		30 - 110					08/09/24 07:58	08/21/24 12:24	1
Y Carrier	85.6		30 - 110					08/09/24 07:58	08/21/24 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.38		0.399	0.410	5.00	0.488	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_27

Lab Sample ID: 500-253560-28

Date Collected: 08/06/24 10:45

Matrix: Water

Date Received: 08/07/24 09:05

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	0.159		0.0733	0.0746	1.00	0.0743	pCi/L	08/09/24 07:54	09/03/24 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		30 - 110					08/09/24 07:54	09/03/24 20:21	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	0.0941	U	0.328	0.328	1.00	0.585	pCi/L	08/09/24 07:58	08/21/24 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		30 - 110					08/09/24 07:58	08/21/24 12:24	1
Y Carrier	83.7		30 - 110					08/09/24 07:58	08/21/24 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.253	U	0.336	0.336	5.00	0.585	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_32

Lab Sample ID: 500-253560-29

Date Collected: 08/06/24 10:00

Matrix: Water

Date Received: 08/07/24 09:05

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	0.0566	U	0.0538	0.0541	1.00	0.0815	pCi/L	08/09/24 07:54	09/03/24 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		30 - 110					08/09/24 07:54	09/03/24 20:21	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	-0.0701	U	0.257	0.257	1.00	0.508	pCi/L	08/09/24 07:58	08/21/24 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		30 - 110					08/09/24 07:58	08/21/24 12:24	1
Y Carrier	83.7		30 - 110					08/09/24 07:58	08/21/24 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0566	U	0.263	0.263	5.00	0.508	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_34

Lab Sample ID: 500-253560-30

Date Collected: 08/06/24 09:10

Matrix: Water

Date Received: 08/07/24 09:05

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	0.213		0.0946	0.0965	1.00	0.110	pCi/L	08/09/24 07:54	09/03/24 20:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		30 - 110					08/09/24 07:54	09/03/24 20:24	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	-0.199	U	0.335	0.336	1.00	0.666	pCi/L	08/09/24 07:58	08/21/24 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		30 - 110					08/09/24 07:58	08/21/24 12:24	1
Y Carrier	86.7		30 - 110					08/09/24 07:58	08/21/24 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.213	U	0.348	0.350	5.00	0.666	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_35

Lab Sample ID: 500-253560-31

Date Collected: 08/06/24 11:35

Matrix: Water

Date Received: 08/07/24 09:05

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	0.115		0.0776	0.0783	1.00	0.108	pCi/L	08/09/24 07:54	09/03/24 20:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					08/09/24 07:54	09/03/24 20:24	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	0.404	U	0.327	0.329	1.00	0.509	pCi/L	08/09/24 07:58	08/21/24 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					08/09/24 07:58	08/21/24 12:25	1
Y Carrier	88.6		30 - 110					08/09/24 07:58	08/21/24 12:25	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.519		0.336	0.338	5.00	0.509	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_35_FD

Lab Sample ID: 500-253560-32

Date Collected: 08/06/24 11:35

Matrix: Water

Date Received: 08/07/24 09:05

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	0.0672	U	0.0663	0.0666	1.00	0.104	pCi/L	08/09/24 07:54	09/03/24 20:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					08/09/24 07:54	09/03/24 20:24	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	0.0652	U	0.285	0.285	1.00	0.516	pCi/L	08/09/24 07:58	08/21/24 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					08/09/24 07:58	08/21/24 12:26	1
Y Carrier	85.2		30 - 110					08/09/24 07:58	08/21/24 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	0.132	U	0.293	0.293	5.00	0.516	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_46

Lab Sample ID: 500-253560-33

Date Collected: 08/06/24 09:55

Matrix: Water

Date Received: 08/07/24 09:05

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	0.0715	U	0.0715	0.0718	1.00	0.113	pCi/L	08/09/24 07:54	09/03/24 20:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		30 - 110					08/09/24 07:54	09/03/24 20:24	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	0.0400	U	0.264	0.264	1.00	0.487	pCi/L	08/09/24 07:58	08/21/24 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		30 - 110					08/09/24 07:58	08/21/24 12:26	1
Y Carrier	88.2		30 - 110					08/09/24 07:58	08/21/24 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	0.111	U	0.274	0.274	5.00	0.487	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_47

Lab Sample ID: 500-253560-34

Date Collected: 08/06/24 11:20

Matrix: Water

Date Received: 08/07/24 09:05

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	0.130		0.0728	0.0737	1.00	0.0889	pCi/L	08/09/24 07:54	09/03/24 20:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110					08/09/24 07:54	09/03/24 20:24	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	-0.0115	U	0.286	0.286	1.00	0.543	pCi/L	08/09/24 07:58	08/21/24 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110					08/09/24 07:58	08/21/24 12:26	1
Y Carrier	83.4		30 - 110					08/09/24 07:58	08/21/24 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	0.130	U	0.295	0.295	5.00	0.543	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_49

Lab Sample ID: 500-253560-35

Date Collected: 08/06/24 14:20

Matrix: Water

Date Received: 08/07/24 09:05

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	0.136		0.0750	0.0760	1.00	0.0936	pCi/L	08/09/24 08:06	09/03/24 20:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		30 - 110					08/09/24 08:06	09/03/24 20:26	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.305	U	0.322	0.323	1.00	0.520	pCi/L	08/09/24 08:14	08/20/24 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		30 - 110					08/09/24 08:14	08/20/24 12:13	1
Y Carrier	73.6		30 - 110					08/09/24 08:14	08/20/24 12:13	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	0.442	U	0.331	0.332	5.00	0.520	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_50

Date Collected: 08/06/24 15:35

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-36

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.251		0.0946	0.0973	1.00	0.0918	pCi/L	08/09/24 07:54	09/03/24 20:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110					08/09/24 07:54	09/03/24 20:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.309	U	0.361	0.363	1.00	0.595	pCi/L	08/09/24 07:58	08/21/24 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110					08/09/24 07:58	08/21/24 12:26	1
Y Carrier	84.5		30 - 110					08/09/24 07:58	08/21/24 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	0.560	U	0.373	0.376	5.00	0.595	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_52

Lab Sample ID: 500-253560-37

Date Collected: 08/06/24 12:05

Matrix: Water

Date Received: 08/07/24 09:05

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	0.0740	U	0.0621	0.0624	1.00	0.0910	pCi/L	08/09/24 07:54	09/03/24 20:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					08/09/24 07:54	09/03/24 20:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.221	U	0.298	0.298	1.00	0.499	pCi/L	08/09/24 07:58	08/21/24 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					08/09/24 07:58	08/21/24 12:26	1
Y Carrier	86.4		30 - 110					08/09/24 07:58	08/21/24 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	0.295	U	0.304	0.304	5.00	0.499	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_54

Lab Sample ID: 500-253560-38

Date Collected: 08/06/24 10:40

Matrix: Water

Date Received: 08/07/24 09:05

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		0.0745	0.0755	1.00	0.0890	pCi/L	08/09/24 07:54	09/03/24 20:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110					08/09/24 07:54	09/03/24 20:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.180	U	0.247	0.247	1.00	0.522	pCi/L	08/09/24 07:58	08/21/24 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110					08/09/24 07:58	08/21/24 12:26	1
Y Carrier	87.9		30 - 110					08/09/24 07:58	08/21/24 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	0.138	U	0.258	0.258	5.00	0.522	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_54_FD

Lab Sample ID: 500-253560-39

Date Collected: 08/06/24 10:45

Matrix: Water

Date Received: 08/07/24 09:05

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	0.129	U	0.0915	0.0923	1.00	0.133	pCi/L	08/09/24 07:54	09/03/24 20:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110					08/09/24 07:54	09/03/24 20:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.363	U	0.357	0.359	1.00	0.574	pCi/L	08/09/24 07:58	08/21/24 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110					08/09/24 07:58	08/21/24 12:26	1
Y Carrier	89.0		30 - 110					08/09/24 07:58	08/21/24 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	0.491	U	0.369	0.371	5.00	0.574	pCi/L		09/06/24 12:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_FB

Lab Sample ID: 500-253560-40

Date Collected: 08/06/24 00:00

Matrix: Water

Date Received: 08/07/24 09:05

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	0.0102	U	0.0400	0.0400	1.00	0.0802	pCi/L	08/09/24 07:54	09/03/24 20:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					08/09/24 07:54	09/03/24 20:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00916	U	0.307	0.307	1.00	0.572	pCi/L	08/09/24 07:58	08/21/24 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					08/09/24 07:58	08/21/24 12:26	1
Y Carrier	84.1		30 - 110					08/09/24 07:58	08/21/24 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	0.0194	U	0.310	0.310	5.00	0.572	pCi/L		09/06/24 12:16	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-005
SDG: HEN_000_RAD

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Rad

Prep Batch: 671237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	PrecSep-21	
500-253560-2	HEN_12	Total/NA	Water	PrecSep-21	
500-253560-3	HEN_13	Total/NA	Water	PrecSep-21	
MB 160-671237/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-671237/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 671238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	PrecSep_0	
500-253560-2	HEN_12	Total/NA	Water	PrecSep_0	
500-253560-3	HEN_13	Total/NA	Water	PrecSep_0	
MB 160-671238/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-671238/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 671460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-5	HEN_03R	Total/NA	Water	PrecSep-21	
500-253560-6	HEN_03R_FD	Total/NA	Water	PrecSep-21	
500-253560-9	HEN_08	Total/NA	Water	PrecSep-21	
500-253560-10	HEN_08&D	Total/NA	Water	PrecSep-21	
500-253560-12	HEN_16	Total/NA	Water	PrecSep-21	
500-253560-13	HEN_16_FD	Total/NA	Water	PrecSep-21	
500-253560-14	HEN_18&D	Total/NA	Water	PrecSep-21	
500-253560-15	HEN_18#S	Total/NA	Water	PrecSep-21	
500-253560-17	HEN_45#S	Total/NA	Water	PrecSep-21	
MB 160-671460/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-671460/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-253560-5 DU	HEN_03R	Total/NA	Water	PrecSep-21	

Prep Batch: 671461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-5	HEN_03R	Total/NA	Water	PrecSep_0	
500-253560-6	HEN_03R_FD	Total/NA	Water	PrecSep_0	
500-253560-9	HEN_08	Total/NA	Water	PrecSep_0	
500-253560-10	HEN_08&D	Total/NA	Water	PrecSep_0	
500-253560-12	HEN_16	Total/NA	Water	PrecSep_0	
500-253560-13	HEN_16_FD	Total/NA	Water	PrecSep_0	
500-253560-14	HEN_18&D	Total/NA	Water	PrecSep_0	
500-253560-15	HEN_18#S	Total/NA	Water	PrecSep_0	
500-253560-17	HEN_45#S	Total/NA	Water	PrecSep_0	
MB 160-671461/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-671461/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-253560-5 DU	HEN_03R	Total/NA	Water	PrecSep_0	

Prep Batch: 671938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-19	HEN_23	Total/NA	Water	PrecSep-21	
500-253560-21	HEN_51	Total/NA	Water	PrecSep-21	
500-253560-22	FB	Total/NA	Water	PrecSep-21	
MB 160-671938/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-671938/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Eurofins Chicago

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Rad

Prep Batch: 671939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-19	HEN_23	Total/NA	Water	PrecSep_0	
500-253560-21	HEN_51	Total/NA	Water	PrecSep_0	
500-253560-22	FB	Total/NA	Water	PrecSep_0	
MB 160-671939/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-671939/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 674439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total/NA	Water	PrecSep-21	
500-253560-25	HEN_21R	Total/NA	Water	PrecSep-21	
500-253560-26	HEN_22	Total/NA	Water	PrecSep-21	
500-253560-27	HEN_22&D	Total/NA	Water	PrecSep-21	
500-253560-28	HEN_27	Total/NA	Water	PrecSep-21	
500-253560-29	HEN_32	Total/NA	Water	PrecSep-21	
500-253560-30	HEN_34	Total/NA	Water	PrecSep-21	
500-253560-31	HEN_35	Total/NA	Water	PrecSep-21	
500-253560-32	HEN_35_FD	Total/NA	Water	PrecSep-21	
500-253560-33	HEN_46	Total/NA	Water	PrecSep-21	
500-253560-34	HEN_47	Total/NA	Water	PrecSep-21	
500-253560-36	HEN_50	Total/NA	Water	PrecSep-21	
500-253560-37	HEN_52	Total/NA	Water	PrecSep-21	
500-253560-38	HEN_54	Total/NA	Water	PrecSep-21	
500-253560-39	HEN_54_FD	Total/NA	Water	PrecSep-21	
500-253560-40	HEN_FB	Total/NA	Water	PrecSep-21	
MB 160-674439/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-674439/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-253560-25 MS	HEN_21R_MS	Total/NA	Water	PrecSep-21	
500-253560-25 MSD	HEN_21R_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 674440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total/NA	Water	PrecSep_0	
500-253560-25	HEN_21R	Total/NA	Water	PrecSep_0	
500-253560-26	HEN_22	Total/NA	Water	PrecSep_0	
500-253560-27	HEN_22&D	Total/NA	Water	PrecSep_0	
500-253560-28	HEN_27	Total/NA	Water	PrecSep_0	
500-253560-29	HEN_32	Total/NA	Water	PrecSep_0	
500-253560-30	HEN_34	Total/NA	Water	PrecSep_0	
500-253560-31	HEN_35	Total/NA	Water	PrecSep_0	
500-253560-32	HEN_35_FD	Total/NA	Water	PrecSep_0	
500-253560-33	HEN_46	Total/NA	Water	PrecSep_0	
500-253560-34	HEN_47	Total/NA	Water	PrecSep_0	
500-253560-36	HEN_50	Total/NA	Water	PrecSep_0	
500-253560-37	HEN_52	Total/NA	Water	PrecSep_0	
500-253560-38	HEN_54	Total/NA	Water	PrecSep_0	
500-253560-39	HEN_54_FD	Total/NA	Water	PrecSep_0	
500-253560-40	HEN_FB	Total/NA	Water	PrecSep_0	
MB 160-674440/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-674440/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-253560-25 MS	HEN_21R_MS	Total/NA	Water	PrecSep_0	
500-253560-25 MSD	HEN_21R_MSD	Total/NA	Water	PrecSep_0	

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

Rad

Prep Batch: 674443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-35	HEN_49	Total/NA	Water	PrecSep-21	
MB 160-674443/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-674443/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-253560-35 MS	HEN_49_MS	Total/NA	Water	PrecSep-21	
500-253560-35 MSD	HEN_49_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 674444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-35	HEN_49	Total/NA	Water	PrecSep_0	
MB 160-674444/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-674444/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-253560-35 MS	HEN_49_MS	Total/NA	Water	PrecSep_0	
500-253560-35 MSD	HEN_49_MSD	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-253560-2
HEN-24Q3-2025
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-671237/1-A
Matrix: Water
Analysis Batch: 674436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671237

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03822	U	0.0568	0.0569	1.00	0.0976	pCi/L	07/18/24 08:48	08/09/24 14:18	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.4		30 - 110					07/18/24 08:48	08/09/24 14:18	1

Lab Sample ID: LCS 160-671237/2-A
Matrix: Water
Analysis Batch: 674436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671237

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	9.606		1.02	1.00	0.129	pCi/L	100	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	90.3		30 - 110							

Lab Sample ID: MB 160-671460/1-A
Matrix: Water
Analysis Batch: 674767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671460

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01208	U	0.0418	0.0419	1.00	0.0823	pCi/L	07/19/24 07:30	08/12/24 23:56	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		30 - 110					07/19/24 07:30	08/12/24 23:56	1

Lab Sample ID: LCS 160-671460/2-A
Matrix: Water
Analysis Batch: 674767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671460

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	9.127		0.959	1.00	0.0990	pCi/L	95	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	93.8		30 - 110							

Lab Sample ID: 500-253560-5 DU
Matrix: Water
Analysis Batch: 674767

Client Sample ID: HEN_03R
Prep Type: Total/NA
Prep Batch: 671460

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0912		0.1399		0.0752	1.00	0.0834	pCi/L	0.36	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-253560-2
HEN-24Q3-2905
SDG: HEN_000_RAD

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

Lab Sample ID: 500-253560-5 DU
Matrix: Water
Analysis Batch: 674767

Client Sample ID: HEN_03R
Prep Type: Total/NA
Prep Batch: 671460

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	83.9		30 - 110

Lab Sample ID: MB 160-671938/1-A
Matrix: Water
Analysis Batch: 674941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671938

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03235	U	0.0481	0.0482	1.00	0.0826	pCi/L	07/23/24 08:14	08/14/24 07:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					07/23/24 08:14	08/14/24 07:54	1

Lab Sample ID: LCS 160-671938/2-A
Matrix: Water
Analysis Batch: 674941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671938

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	9.58	8.917		0.950	1.00	0.106	pCi/L	93	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	86.8		30 - 110						

Lab Sample ID: MB 160-674439/1-A
Matrix: Water
Analysis Batch: 677738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674439

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01013	U	0.0355	0.0355	1.00	0.0830	pCi/L	08/09/24 07:54	09/03/24 20:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.8		30 - 110					08/09/24 07:54	09/03/24 20:19	1

Lab Sample ID: LCS 160-674439/2-A
Matrix: Water
Analysis Batch: 677738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674439

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	9.58	8.901		0.932	1.00	0.0992	pCi/L	93	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	98.5		30 - 110						

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-253560-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-253560-25 MS
Matrix: Water
Analysis Batch: 677738

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA
Prep Batch: 674439

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.454		9.53	8.843		0.938	1.00	0.0898	pCi/L	88	60 - 140		
Carrier	MS %Yield	MS Qualifier	Limits										
Ba Carrier	89.7		30 - 110										

Lab Sample ID: 500-253560-25 MSD
Matrix: Water
Analysis Batch: 677738

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA
Prep Batch: 674439

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	0.454		9.41	9.476		0.994	1.00	0.0864	pCi/L	96	60 - 140	0.33	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	88.5		30 - 110										

Lab Sample ID: MB 160-674443/1-A
Matrix: Water
Analysis Batch: 677928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674443

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01754	U	0.0406	0.0407	1.00	0.0931	pCi/L	08/09/24 08:06	09/03/24 20:26	1
Carrier	MB %Yield	MB Qualifier	Limits							
Ba Carrier	101		30 - 110							
								Prepared	Analyzed	Dil Fac
								08/09/24 08:06	09/03/24 20:26	1

Lab Sample ID: LCS 160-674443/2-A
Matrix: Water
Analysis Batch: 677928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674443

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	9.58	7.362		0.785	1.00	0.0920	pCi/L	77	75 - 125		
Carrier	LCS %Yield	LCS Qualifier	Limits								
Ba Carrier	105		30 - 110								

Lab Sample ID: 500-253560-35 MS
Matrix: Water
Analysis Batch: 677928

Client Sample ID: HEN_49_MS
Prep Type: Total/NA
Prep Batch: 674443

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.136		9.53	7.561		0.804	1.00	0.0901	pCi/L	78	60 - 140		

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2905
SDG: HEN_000_RAD

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

Lab Sample ID: 500-253560-35 MS
Matrix: Water
Analysis Batch: 677928

Client Sample ID: HEN_49_MS
Prep Type: Total/NA
Prep Batch: 674443

	MS	MS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	104		30 - 110

Lab Sample ID: 500-253560-35 MSD
Matrix: Water
Analysis Batch: 677928

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
Prep Batch: 674443

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	0.136		9.58	7.851		0.838	1.00	0.0924	pCi/L	81	60 - 140	0.18	1
	MSD	MSD											
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	97.5		30 - 110										

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-671238/1-A
Matrix: Water
Analysis Batch: 672949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671238

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3731	U	0.441	0.442	1.00	0.726	pCi/L	07/18/24 08:52	07/30/24 12:38	1
	MB	MB								
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.4		30 - 110					07/18/24 08:52	07/30/24 12:38	1
Y Carrier	82.6		30 - 110					07/18/24 08:52	07/30/24 12:38	1

Lab Sample ID: LCS 160-671238/2-A
Matrix: Water
Analysis Batch: 672949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671238

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.72	10.05		1.40	1.00	0.590	pCi/L	115	75 - 125
	LCS	LCS							
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	90.3		30 - 110						
Y Carrier	80.7		30 - 110						

Lab Sample ID: MB 160-671461/1-A
Matrix: Water
Analysis Batch: 673116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671461

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4548	U	0.345	0.347	1.00	0.529	pCi/L	07/19/24 07:33	07/31/24 12:07	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-253560-2
SDG: HEN_000_RAD

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

Lab Sample ID: MB 160-671461/1-A
Matrix: Water
Analysis Batch: 673116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671461

	MB	MB				
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		30 - 110	07/19/24 07:33	07/31/24 12:07	1
Y Carrier	84.1		30 - 110	07/19/24 07:33	07/31/24 12:07	1

Lab Sample ID: LCS 160-671461/2-A
Matrix: Water
Analysis Batch: 673116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671461

					Total								
Analyte			Spike Added	LCS Result	LCS Qual	Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.72	10.74		1.40	1.00	0.472	pCi/L	123	75 - 125		
		LCS	LCS										
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	93.8		30 - 110										
Y Carrier	84.5		30 - 110										

Lab Sample ID: 500-253560-5 DU
Matrix: Water
Analysis Batch: 673240

Client Sample ID: HEN_03R
Prep Type: Total/NA
Prep Batch: 671461

											Total	
	Sample	Sample	DU		DU	Total						RER
Analyte	Result	Qual		Result	Qual	Uncert. (2σ+/-)	RL	MDC	Unit			Limit
Radium-228	0.0642	U		0.3732	U	0.405	1.00	0.658	pCi/L			0.44 1
Carrier	DU	DU										
	%Yield	Qualifier	Limits									
Ba Carrier	83.9		30 - 110									
Y Carrier	82.2		30 - 110									

Lab Sample ID: MB 160-671939/1-A
Matrix: Water
Analysis Batch: 673560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671939

		Count	Total							
	MB	MB	Uncert.	Uncert.						
Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.06257	U	0.268	0.268	1.00	0.491	pCi/L	07/23/24 08:19	08/02/24 11:36	1
		MB	MB							
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	94.5		30 - 110							
Y Carrier	79.3		30 - 110							

Lab Sample ID: LCS 160-671939/2-A
Matrix: Water
Analysis Batch: 673560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671939

			Spike	LCS	LCS	Total							
Analyte			Added	Result	Qual	Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.71	9.955		1.36	1.00	0.540	pCi/L	114	75 - 125		

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-253560-2
HEN-24Q3-2905
SDG: HEN_000_RAD

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

Lab Sample ID: LCS 160-671939/2-A
Matrix: Water
Analysis Batch: 673560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671939

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	86.8		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: MB 160-674440/1-A
Matrix: Water
Analysis Batch: 676130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674440

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.06749	U	0.262	0.262	1.00	0.509	pCi/L	08/09/24 07:58	08/21/24 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.8		30 - 110					08/09/24 07:58	08/21/24 12:23	1
Y Carrier	84.9		30 - 110					08/09/24 07:58	08/21/24 12:23	1

Lab Sample ID: LCS 160-674440/2-A
Matrix: Water
Analysis Batch: 676130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674440

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.58	9.609		1.29	1.00	0.476	pCi/L	112	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	98.5		30 - 110						
Y Carrier	85.2		30 - 110						

Lab Sample ID: 500-253560-25 MS
Matrix: Water
Analysis Batch: 676130

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA
Prep Batch: 674440

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	0.918		8.54	8.417		1.22	1.00	0.602	pCi/L	88	60 - 140
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	89.7		30 - 110								
Y Carrier	83.7		30 - 110								

Lab Sample ID: 500-253560-25 MSD
Matrix: Water
Analysis Batch: 676130

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA
Prep Batch: 674440

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	0.918		8.43	9.679		1.32	1.00	0.536	pCi/L	104	60 - 140	0.50	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-253560-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-253560-25 MSD
Matrix: Water
Analysis Batch: 676130

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA
Prep Batch: 674440

	MSD	MSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.5		30 - 110
Y Carrier	86.0		30 - 110

Lab Sample ID: MB 160-674444/1-A
Matrix: Water
Analysis Batch: 675777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674444

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6358		0.348	0.353	1.00	0.485	pCi/L	08/09/24 08:14	08/20/24 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					08/09/24 08:14	08/20/24 12:13	1
Y Carrier	74.4		30 - 110					08/09/24 08:14	08/20/24 12:13	1

Lab Sample ID: LCS 160-674444/2-A
Matrix: Water
Analysis Batch: 675777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674444

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.58	9.222		1.24	1.00	0.465	pCi/L	107	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	105		30 - 110						
Y Carrier	78.1		30 - 110						

Lab Sample ID: 500-253560-35 MS
Matrix: Water
Analysis Batch: 675777

Client Sample ID: HEN_49_MS
Prep Type: Total/NA
Prep Batch: 674444

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	0.305	U	8.54	10.03		1.32	1.00	0.465	pCi/L	114	60 - 140
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	104		30 - 110								
Y Carrier	77.8		30 - 110								

Lab Sample ID: 500-253560-35 MSD
Matrix: Water
Analysis Batch: 675777

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
Prep Batch: 674444

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	0.305	U	8.58	10.56		1.40	1.00	0.596	pCi/L	119	60 - 140	0.20	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3-2024
SDG: HEN_000_RAD

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

Lab Sample ID: 500-253560-35 MSD
Matrix: Water
Analysis Batch: 675777

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
Prep Batch: 674444

Carrier	MSD		Limits
	%Yield	Qualifier	
Ba Carrier	97.5		30 - 110
Y Carrier	80.0		30 - 110

1

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Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-000_000_000
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Client Sample ID: HEN_07

Date Collected: 07/15/24 15:20

Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671237	MLT	EET SL	07/18/24 08:48
Total/NA	Analysis	903.0		1	674446	SWS	EET SL	08/09/24 14:41
Total/NA	Prep	PrecSep_0			671238	MLT	EET SL	07/18/24 08:52
Total/NA	Analysis	904.0		1	672930	SCB	EET SL	07/30/24 12:36
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_12

Date Collected: 07/15/24 15:45

Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671237	MLT	EET SL	07/18/24 08:48
Total/NA	Analysis	903.0		1	674446	SWS	EET SL	08/09/24 14:41
Total/NA	Prep	PrecSep_0			671238	MLT	EET SL	07/18/24 08:52
Total/NA	Analysis	904.0		1	672930	SCB	EET SL	07/30/24 12:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_13

Date Collected: 07/15/24 16:35

Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671237	MLT	EET SL	07/18/24 08:48
Total/NA	Analysis	903.0		1	674446	SWS	EET SL	08/09/24 14:41
Total/NA	Prep	PrecSep_0			671238	MLT	EET SL	07/18/24 08:52
Total/NA	Analysis	904.0		1	672930	SCB	EET SL	07/30/24 12:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_03R

Date Collected: 07/16/24 09:53

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674767	SWS	EET SL	08/12/24 23:59
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673240	SWS	EET SL	07/31/24 12:21
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-000-005
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Client Sample ID: HEN_03R_FD

Date Collected: 07/16/24 09:53

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674767	SWS	EET SL	08/12/24 23:59
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673240	SWS	EET SL	07/31/24 12:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_08

Date Collected: 07/16/24 14:00

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	675246	SWS	EET SL	08/15/24 09:59
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_08&D

Date Collected: 07/16/24 15:46

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674892	SCB	EET SL	08/13/24 07:38
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_16

Date Collected: 07/16/24 15:30

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674892	SCB	EET SL	08/13/24 07:38
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:06
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-24Q3
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Client Sample ID: HEN_16_FD

Date Collected: 07/16/24 15:40

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674892	SCB	EET SL	08/13/24 07:38
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:06
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_18&D

Date Collected: 07/16/24 13:17

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674892	SCB	EET SL	08/13/24 07:38
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:06
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_18#S

Date Collected: 07/16/24 12:06

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674892	SCB	EET SL	08/13/24 07:38
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:07
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_45#S

Date Collected: 07/16/24 08:42

Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674892	SCB	EET SL	08/13/24 07:38
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:07
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-000_24Q3
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Client Sample ID: HEN_23

Date Collected: 07/18/24 09:45

Date Received: 07/18/24 13:00

Lab Sample ID: 500-253560-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671938	MLT	EET SL	07/23/24 08:14
Total/NA	Analysis	903.0		1	674941	SCB	EET SL	08/14/24 15:09
Total/NA	Prep	PrecSep_0			671939	MLT	EET SL	07/23/24 08:19
Total/NA	Analysis	904.0		1	673556	SCB	EET SL	08/02/24 11:35
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_51

Date Collected: 07/18/24 10:25

Date Received: 07/18/24 13:00

Lab Sample ID: 500-253560-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671938	MLT	EET SL	07/23/24 08:14
Total/NA	Analysis	903.0		1	674941	SCB	EET SL	08/14/24 15:10
Total/NA	Prep	PrecSep_0			671939	MLT	EET SL	07/23/24 08:19
Total/NA	Analysis	904.0		1	673556	SCB	EET SL	08/02/24 11:36
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: FB

Date Collected: 07/18/24 08:00

Date Received: 07/18/24 13:00

Lab Sample ID: 500-253560-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671938	MLT	EET SL	07/23/24 08:14
Total/NA	Analysis	903.0		1	674941	SCB	EET SL	08/14/24 15:10
Total/NA	Prep	PrecSep_0			671939	MLT	EET SL	07/23/24 08:19
Total/NA	Analysis	904.0		1	673556	SCB	EET SL	08/02/24 11:36
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_17

Date Collected: 08/06/24 09:10

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 20:20
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-000-2905
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Client Sample ID: HEN_21R

Date Collected: 08/06/24 13:15

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 20:20
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_22

Date Collected: 08/06/24 15:50

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 20:21
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_22&D

Date Collected: 08/06/24 15:15

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 20:21
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_27

Date Collected: 08/06/24 10:45

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 20:21
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-000-2905
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Client Sample ID: HEN_32

Date Collected: 08/06/24 10:00

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 20:21
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_34

Date Collected: 08/06/24 09:10

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:24
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_35

Date Collected: 08/06/24 11:35

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-31

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:24
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_35_FD

Date Collected: 08/06/24 11:35

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:24
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-000_24Q3
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Client Sample ID: HEN_46

Date Collected: 08/06/24 09:55

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:24
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_47

Date Collected: 08/06/24 11:20

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:24
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_49

Date Collected: 08/06/24 14:20

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674443	BMW	EET SL	08/09/24 08:06
Total/NA	Analysis	903.0		1	677928	SCB	EET SL	09/03/24 20:26
Total/NA	Prep	PrecSep_0			674444	BMW	EET SL	08/09/24 08:14
Total/NA	Analysis	904.0		1	675777	CMM	EET SL	08/20/24 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_50

Date Collected: 08/06/24 15:35

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-36

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:25
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
HEN-000_24Q3
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Client Sample ID: HEN_52

Date Collected: 08/06/24 12:05

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-37

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:25
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_54

Date Collected: 08/06/24 10:40

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-38

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:25
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_54_FD

Date Collected: 08/06/24 10:45

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-39

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:25
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_FB

Date Collected: 08/06/24 00:00

Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-40

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:25
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Laboratory References:

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

Eurofins Chicago

Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
15 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-253560-2
HEN-24-002905
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

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4.1 → 24.0

500-253500
HEN-845-802-405

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company: <u>Vistra Corp-Hennepin</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Brian Voelker</u>	
Address: <u>13498 E 800th St</u>		Copy To: <u>Sam Davies samantha.davies@visracorp.com</u>		Company Name: <u>Vistra Corp</u>	
<u>Hennepin, IL 61327</u>		<u>Jason Stuckey & Michael Olie</u>		Address: <u>see Section A</u>	
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.: <u>michael.olie@visracorp.com</u>		Quote Reference:	
Phone: <u>(217) 753-8911</u> Fax:		Project Name: <u>Jason.Stuckey@visracorp.com</u>		Project Manager:	
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>50023030</u>		Profile #:	
REGULATORY AGENCY					
NPDES GROUND WATER DRINKING WATER					
UST RCRA OTHER					
Site Location: <u>IL</u>					
STATE: <u>IL</u>					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								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		Analysis Test	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					

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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	SIGNATURE of SAMPLER				
	<u>Lorne Filer</u>				
DATE Signed (MM/DD/YY)					
<u>7-15-24</u>					

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$70.1 \rightarrow 70.2, 1.0 \rightarrow 70.9, 3.2 \rightarrow 73.1, 1.0 \rightarrow 70.9, 0.9 \rightarrow 70.8, 1.7 \rightarrow 71.6$

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[illegible]09/06/24

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page 3 of 3
Company: <u>Vistra Corp-Hennepin</u>	Report To: <u>Brian Voelker</u>	Attention: <u>Brian Voelker</u>	REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: <u>IL</u> STATE: <u>IL</u>
Address: <u>13498 E 800th St</u>	Copy To: <u>Sam Davies samantha.davies@visstracorp.com</u>	Company Name: <u>Vistra Corp</u>	
<u>Hennepin, IL 61327</u>	<u>Jason Stuckey & Michael Olle</u>	Address: <u>see Section A</u>	
Email To: <u>Brian.Voelker@VistraCorp.com</u>	Purchase Order No. <u>michael.olle@visstracorp.com</u>	Quote Reference:	
Phone: <u>(217) 753-8911</u> Fax:	Project Name: <u>Jason.Stuckey@visstracorp.com</u>	Project Manager:	
Requested Due Date/TAT: <u>10 day</u>	Project Number: <u>50023030</u>	Profile #:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N Analysis Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	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		
1	HEN_45#S				7-16-24	0842													X				X	B	SHORT HOLD - NO2						
2	HEN_46																			X			X	G							
3	HEN_47																			X			X	G							
4	HEN_48R																		X					I							
5	HEN_49																			X		X	X	H	MS/MSD						
6	HEN_50																			X		X	X	H							
7	HEN_51																			X		X	X	H							
8	HEN_52																						X	G							
9	HEN_54																						X	G							
10	HEN_54 FD																						X	G							
11	HEN_55																							J	DTW Only						
12	HEN_YSG_ILRIVER																		X	X	X	X	X	J	DTW Only						
13	HEN_XSG01																			X				J	DTW Only						
14	FB																				X	X	C	SHORT HOLD - NO2							
15	TB1				07-16-24	00:00																X	A	BTEX Only							
16	TB2				07-16-24	00:00																X	A	BTEX Only							
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																					
HEN-24Q3 Rev 1		Lorne Filenicz		7/16/24	1546	Lorne Filenicz		7/17/24	0948																						

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					
SIGNATURE of SAMPLER					
Lorne Filenicz		DATE Signed (MM/DD/YY) 7/16/24			

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6.1 $\rightarrow$ 5.7

NAME OF SAMPLER		DATE
C. Lorne Filer		8/1/68
SIGNATURE OF SAMPLER		DATE (MM/DD)
C. Lorne Filer		8/1/68

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ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes <u>MATRIX</u> <u>CODE</u> DRINKING WATER DW WATER WT 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								Y/N ↓ Analysis Test ↑	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No./ Lab I D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		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		
1	HEN_21R														X				X		X	X	H		MS/MSD						
2	HEN_22														X				X		X	X	H								
3	HEN_22&D														X				X		X	X	H								
4	HEN_23					7-18-24	0945								X				X		X	X	H								
5	HEN_25														X								J		DTW Only						
6	HEN_26														X								J		DTW Only						
7	HEN_27														X				X		X	X	H								
8	HEN_30														X								J		DTW Only						
9	HEN_31														X								J		DTW Only						
10	HEN_32														X				X		X	X	H								
11	HEN_33														X								J		DTW Only						
12	HEN_34														X				X		X	X	H								
13	HEN_35														X				X		X	X	H								
14	HEN_35 FD														X				X		X	X	H								
15	HEN_36														X								J		DTW Only						
16	HEN_40#S														X								E		SHORT HOLD - NO2						
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																					
HEN-24Q3 Rev 1		Conefutura		7-19-24	1300	Shirley Smith		7/18/24	1300																						

09/06/24

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500-253560 COC

Requested Analysis Filtered (Y/N)24

58 → 57, 18 → 17, 58 → 57
62 → 59, 43 → 42

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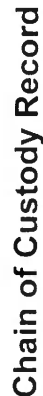
ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N Analysis Test ↓	Requested Analysis Filtered (Y/N)															
					DATE	TIME			Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	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	Residual Chlorine (Y/N)			
																	Project No./ Lab I D																
1	* HEN 21R				8-6-24	1315								X				X		X	X	H		MS/MSD									
2	* HEN 22				8-6-24	1550								X				X		X	X	H											
3	* HEN 22&D				8-6-24	1515								X				X		X	X	H											
4	HEN 23													X				X		X	X	H											
5	HEN 25													X								J		DTW Only									
6	HEN 26													X								J		DTW Only									
7	* HEN 27				8-6-24	1045								X				X		X	X	H											
8	HEN 30													X								J		DTW Only									
9	HEN 31													X								J		DTW Only									
10	* HEN 32				8-6-24	1000								X				X		X	X	H											
11	HEN 33													X								J		DTW Only									
12	* HEN 34				8-6-24	0910								X				X		X	X	H											
13	* HEN 35				8-6-24	1135								X				X		X	X	H											
14	* HEN 35 FD				8-6-24	1135								X				X		X	X	H											
15	HEN 36													X								J		DTW Only									
16	HEN 40'S													X				X				E		SHORT HOLD - NO2									
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION					DATE	TIME	SAMPLE CONDITIONS																	
HEN-24Q3 Rev 1					Lorne F. Lewis		8-7-24	0905	[Signature]					8/7/24	0905																		

09/06/24

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

Page 3 of 3

[illegible]09/06/24

[illegible]

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	GOC No
Client Contact		Phone	Nelson, Dirk		500-190607.1
Shipping/Receiving			E-Mail	State of Origin	Page
Company			Dirk Nelson@eurofins.com	Illinois	1 of 1
Test/America Laboratories, Inc.			Accreditations Required (See note)	Job #	500-253560-2
Address					Preservation Codes:
13715 Rider Trail North,					
City					
Earth City					
State, Zip					
MO, 63045					
Phone					
314-298-8566(Tel) 314-298-8757(Fax)					
Email					
Project Name					
HEN-24Q3					
Site					
SSOW#					
Due Date Requested:					
8/14/2024					
TAT Requested (days):					
PO #					
WO #					
Project #					
50023030					
Site					
SSOW#					

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=waste, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PrecSep_0 BB	903.0/PrecSep_21 BB	Ra226_228GFP_C/P/BB	Analysis Requested	Total Number of Containers	Special Instructions/Note:
HEN_03R (500-253560-5)	7/16/24	09:53 Central		Water			X	X	X		2	
HEN_03R_FD (500-253560-6)	7/16/24	09:53 Central		Water			X	X	X		2	
HEN_08 (500-253560-9)	7/16/24	14:00 Central		Water			X	X	X		2	
HEN_08&D (500-253560-10)	7/16/24	15:46 Central		Water			X	X	X		2	
HEN_16 (500-253560-12)	7/16/24	15:30 Central		Water			X	X	X		2	
HEN_16_FD (500-253560-13)	7/16/24	15:40 Central		Water			X	X	X		2	
HEN_18&D (500-253560-14)	7/16/24	13:17 Central		Water			X	X	X		2	
HEN_18WS (500-253560-15)	7/16/24	12:06 Central		Water			X	X	X		2	
HEN_45WS (500-253560-17)	7/16/24	08:42 Central		Water			X	X	X		2	

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

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		Return To Client	Disposal By Lab
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Archive For
			Months
Empty Kit Relinquished by:		Time:	
Relinquished by:	Date:	Method of Shipment:	
Relinquished by:	7/17/24 1630	Date/Time:	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	
Δ Yes Δ No			

Received by: M. Pinette
Date/Time: 7/18/24 0855
Company: Company

Chain of Custody Record



Environment Testing

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN 845-802-805

[illegible]

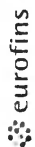
Chain of Custody Record



Environment Testing

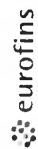
Client Information (Sub Contract Lab)		Lab PM: Nelson, Dirk		Carrier Tracking No(s):		COC No: 500-191394-1	
Client Contact: Shipping/Receiving		Phone:		State of Origin: Illinois		Page: Page 1 of 3	
Company: Test/America Laboratories, Inc.		E-Mail: Dirk.Nelson@et.eurofins.com		Accreditations Required (See note): NELAP - Illinois		Job #: 500-253560-1	
Address: 13715 Rider Trail North,		Due Date Requested: 7/31/2024		Analysis Requested:		Preservation Codes:	
City: Earth City		TAT Requested (days):					
State, Zip: MO, 63045		PO #:					
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:					
Email:		Project #:					
Project Name: HEN-24Q3		50023030					
Site:		SSOW#:					
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
						Matrix (W=water, S=solid, O=wastewater, B=biomass, A=air)	
HEN_17 (500-253560-24)		8/6/24		09:10 Central		Water	
HEN_21R (500-253560-25)		8/6/24		13:15 Central		Water	
HEN_21R_MS (500-253560-25MS)		8/6/24		13:15 Central		MS	
HEN_21R_MSD (500-253560-25MSD)		8/6/24		13:15 Central		MSD	
HEN_22 (500-253560-26)		8/6/24		15:50 Central		Water	
HEN_22&D (500-253560-27)		8/6/24		15:15 Central		Water	
HEN_27 (500-253560-28)		8/6/24		10:45 Central		Water	
HEN_32 (500-253560-29)		8/6/24		10:00 Central		Water	
HEN_34 (500-253560-30)		8/6/24		09:10 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.							
Possible Hazard Identification							
Unconfirmed							
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2					
Empty Kit Relinquished by:		Date:		Time:			
Relinquished by: <i>Dirk Nelson</i>		8/7/24		16:00			
Relinquished by:		Date/Time:		Received by: <i>M. Pinette</i>		Date/Time: AUG 08 2024 08:20	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler		Lab PM Nelson, Dirk		Carrier Tracking No(s)		COC No 500-191394-2	
Shipping/Receiving		Phone		E-Mail Dirk.Nelson@eurofins.com		State of Origin Illinois		Page Page 2 of 3	
Company TestAmerica Laboratories, Inc.		Address 13715 Rider Trail North,		Accreditations Required (See note) NELAP - Illinois		Job # 500-253560-1		Preservation Codes:	
City Earth City		State, Zip MO, 63045		Due Date Requested: 7/31/2024		TAT Requested (days):		Analysis Requested	
Phone 314-298-8566(Tel) 314-298-8757(Fax)		PO #		Field Filtered Sample (Yes or No)		903.03/PrecSep_21 BB		904.0/PrecSep_0 BB	
Email		WO #		Matrix (W=Water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Ra226_228GFP_C_P/BB		Total Number of containers	
Project Name HEN-24Q3		Project # 50023030		Sample Type (C=Comp, G=grab)		Preservation Code:		Special Instructions/Note:	
Site		SSOW#		Sample Date		Sample Time		Other:	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type		Matrix	
HEN_35 (500-253560-31)		8/6/24		11:35 Central		Water		X	
HEN_35_FD (500-253560-32)		8/6/24		11:35 Central		Water		X	
HEN_46 (500-253560-33)		8/6/24		09:55 Central		Water		X	
HEN_47 (500-253560-34)		8/6/24		11:20 Central		Water		X	
HEN_49 (500-253560-35)		8/6/24		14:20 Central		Water		X	
HEN_49_MS (500-253560-35MS)		8/6/24		14:20 Central		MS		X	
HEN_49_MSD (500-253560-35MSD)		8/6/24		14:20 Central		MSD		X	
HEN_50 (500-253560-36)		8/6/24		15:35 Central		Water		X	
HEN_52 (500-253560-37)		8/6/24		12:05 Central		Water		X	
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested: I, II, III, IV, Other (specify)									
Primary Deliverable Rank: 2									
Empty Kit Relinquished by:									
Date/Time: 8/7/24 16:00									
Relinquished by:									
Date/Time:									
Relinquished by:									
Date/Time:									
Custody Seal No.:									
Custody Seals Intact: ☐ Yes ☐ No									
Cooler Temperature(s) °C and Other Remarks:									
Received by: M. Pinette									
Date/Time: AUG 08 2024 08:20									
Company:									
Received by:									
Date/Time:									
Company:									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
☐ Return To Client ☐ Disposal By Lab ☐ Archive For									
Special Instructions/QC Requirements:									
Time:									
Date:									
Method of Shipment:									
Date/Time:									
Company:									
Date/Time:									
Company:									
Date/Time:									
Company:									

Chain of Custody Record



Environment Testing

[illegible]

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-253560-2

SDG Number: HEN_000_RAD

Login Number: 253560

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	4.0,-0.2,0.9,3.1,0.9,0.8,1.6,5.7,11.8,12.7,11.8,9.1,11.3,5.7,1.7,5.7,5.9,4.2
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 $<6\text{mm}$ (1/4").	False	
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 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-253560-2
SDG Number: HEN_000_RAD

Login Number: 253560

List Number: 3

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 07/17/24 01:48 PM

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-253560-2
SDG Number: HEN_000_RAD

Login Number: 253560

List Number: 5

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 07/18/24 11:38 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-253560-2
SDG Number: HEN_000_RAD

Login Number: 253560

List Number: 7

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 07/19/24 03:53 PM

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-253560-2
SDG Number: HEN_000_RAD

Login Number: 253560

List Number: 8

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/08/24 12:06 PM

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

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
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)	
500-253560-1	HEN_07	93.3	
500-253560-2	HEN_12	93.5	
500-253560-3	HEN_13	92.8	
500-253560-5	HEN_03R	90.6	
500-253560-5 DU	HEN_03R	83.9	
500-253560-6	HEN_03R_FD	91.8	
500-253560-9	HEN_08	88.3	
500-253560-10	HEN_08&D	88.3	
500-253560-12	HEN_16	83.6	
500-253560-13	HEN_16_FD	85.4	
500-253560-14	HEN_18&D	87.6	
500-253560-15	HEN_18#S	83.9	
500-253560-17	HEN_45#S	87.6	
500-253560-19	HEN_23	97.3	
500-253560-21	HEN_51	95.0	
500-253560-22	FB	94.3	
500-253560-24	HEN_17	93.6	
500-253560-25	HEN_21R	87.7	
500-253560-25 MS	HEN_21R_MS	89.7	
500-253560-25 MSD	HEN_21R_MSD	88.5	
500-253560-26	HEN_22	93.1	
500-253560-27	HEN_22&D	95.3	
500-253560-28	HEN_27	91.4	
500-253560-29	HEN_32	98.3	
500-253560-30	HEN_34	88.7	
500-253560-31	HEN_35	94.3	
500-253560-32	HEN_35_FD	97.8	
500-253560-33	HEN_46	92.6	
500-253560-34	HEN_47	91.9	
500-253560-35	HEN_49	91.4	
500-253560-35 MS	HEN_49_MS	104	
500-253560-35 MSD	HEN_49_MSD	97.5	
500-253560-36	HEN_50	90.4	
500-253560-37	HEN_52	92.4	
500-253560-38	HEN_54	91.2	
500-253560-39	HEN_54_FD	87.7	
500-253560-40	HEN_FB	89.7	
LCS 160-671237/2-A	Lab Control Sample	90.3	
LCS 160-671460/2-A	Lab Control Sample	93.8	
LCS 160-671938/2-A	Lab Control Sample	86.8	
LCS 160-674439/2-A	Lab Control Sample	98.5	
LCS 160-674443/2-A	Lab Control Sample	105	
MB 160-671237/1-A	Method Blank	80.4	
MB 160-671460/1-A	Method Blank	93.8	
MB 160-671938/1-A	Method Blank	94.5	
MB 160-674439/1-A	Method Blank	99.8	
MB 160-674443/1-A	Method Blank	101	

Tracer/Carrier Legend

Ba = Ba Carrier

Eurofins Chicago

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-253560-2
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)
500-253560-1	HEN_07	93.3	78.9
500-253560-2	HEN_12	93.5	80.7
500-253560-3	HEN_13	92.8	83.4
500-253560-5	HEN_03R	90.6	83.4
500-253560-5 DU	HEN_03R	83.9	82.2
500-253560-6	HEN_03R_FD	91.8	85.2
500-253560-9	HEN_08	88.3	85.2
500-253560-10	HEN_08&D	88.3	84.1
500-253560-12	HEN_16	83.6	84.9
500-253560-13	HEN_16_FD	85.4	84.9
500-253560-14	HEN_18&D	87.6	84.5
500-253560-15	HEN_18#S	83.9	83.4
500-253560-17	HEN_45#S	87.6	86.7
500-253560-19	HEN_23	97.3	86.4
500-253560-21	HEN_51	95.0	82.2
500-253560-22	FB	94.3	85.6
500-253560-24	HEN_17	93.6	84.1
500-253560-25	HEN_21R	87.7	84.9
500-253560-25 MS	HEN_21R_MS	89.7	83.7
500-253560-25 MSD	HEN_21R_MSD	88.5	86.0
500-253560-26	HEN_22	93.1	83.0
500-253560-27	HEN_22&D	95.3	85.6
500-253560-28	HEN_27	91.4	83.7
500-253560-29	HEN_32	98.3	83.7
500-253560-30	HEN_34	88.7	86.7
500-253560-31	HEN_35	94.3	88.6
500-253560-32	HEN_35_FD	97.8	85.2
500-253560-33	HEN_46	92.6	88.2
500-253560-34	HEN_47	91.9	83.4
500-253560-35	HEN_49	91.4	73.6
500-253560-35 MS	HEN_49_MS	104	77.8
500-253560-35 MSD	HEN_49_MSD	97.5	80.0
500-253560-36	HEN_50	90.4	84.5
500-253560-37	HEN_52	92.4	86.4
500-253560-38	HEN_54	91.2	87.9
500-253560-39	HEN_54_FD	87.7	89.0
500-253560-40	HEN_FB	89.7	84.1
LCS 160-671238/2-A	Lab Control Sample	90.3	80.7
LCS 160-671461/2-A	Lab Control Sample	93.8	84.5
LCS 160-671939/2-A	Lab Control Sample	86.8	82.2
LCS 160-674440/2-A	Lab Control Sample	98.5	85.2
LCS 160-674444/2-A	Lab Control Sample	105	78.1
MB 160-671238/1-A	Method Blank	80.4	82.6
MB 160-671461/1-A	Method Blank	93.8	84.1
MB 160-671939/1-A	Method Blank	94.5	79.3
MB 160-674440/1-A	Method Blank	99.8	84.9
MB 160-674444/1-A	Method Blank	101	74.4

Tracer/Carrier Legend

Ba = Ba Carrier

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: HEN-24Q3
Y = Y Carrier

Tracer/Carrier Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-253560-2
SDG: HEN_000_RAD

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**ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 3, 2024**

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
03R	UA	E006	Antimony, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.003	0.001
03R	UA	E006	Arsenic, total	mg/L	12/09/15 - 07/16/24	28	100	All ND - Last	0.001	0.001
03R	UA	E006	Barium, total	mg/L	12/09/15 - 07/16/24	30	0	CI around geomean	0.0623	0.212
03R	UA	E006	Beryllium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.001	0.001
03R	UA	E006	Boron, total	mg/L	12/09/15 - 07/16/24	34	0	CB around T-S line	0.428	0.163
03R	UA	E006	Cadmium, total	mg/L	12/09/15 - 07/16/24	29	93	CB around T-S line	0.000615	0.00230
03R	UA	E006	Chloride, total	mg/L	12/09/15 - 07/16/24	34	0	CB around T-S line	76.5	435
03R	UA	E006	Chromium, total	mg/L	12/09/15 - 07/16/24	28	93	CB around T-S line	0.0015	0.00100
03R	UA	E006	Cobalt, total	mg/L	12/09/15 - 07/16/24	29	97	CI around median	0.001	0.0380
03R	UA	E006	Fluoride, total	mg/L	12/09/15 - 07/16/24	31	3	CI around median	0.27	0.120
03R	UA	E006	Lead, total	mg/L	12/09/15 - 07/16/24	28	100	All ND - Last	0.0005	0.00150
03R	UA	E006	Lithium, total	mg/L	12/09/15 - 07/16/24	33	0	CI around mean	0.0234	0.0190
03R	UA	E006	Mercury, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.0002	0.0002
03R	UA	E006	Molybdenum, total	mg/L	12/09/15 - 07/16/24	33	0	CB around linear reg	0.0731	0.00170
03R	UA	E006	pH (field)	SU	12/09/15 - 07/16/24	37	0	CI around median	7.2/7.3	6.6/7.5
03R	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/16/24	28	0	CI around median	0.27	1.50
03R	UA	E006	Selenium, total	mg/L	12/09/15 - 07/16/24	30	7	CI around mean	0.00472	0.00140
03R	UA	E006	Sulfate, total	mg/L	12/09/15 - 07/16/24	33	0	CB around linear reg	73	215
03R	UA	E006	Thallium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.002	0.001
03R	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 07/16/24	34	0	CI around mean	514	1,620
18S	UA	E006	Antimony, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.003	0.001
18S	UA	E006	Arsenic, total	mg/L	12/09/15 - 07/16/24	28	97	CI around median	0.001	0.001
18S	UA	E006	Barium, total	mg/L	12/09/15 - 07/16/24	30	0	CB around linear reg	0.051	0.212
18S	UA	E006	Beryllium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.001	0.001
18S	UA	E006	Boron, total	mg/L	12/09/15 - 07/16/24	34	0	CB around T-S line	1.06	0.163
18S	UA	E006	Cadmium, total	mg/L	12/09/15 - 07/16/24	29	79	CB around T-S line	0.000562	0.00230
18S	UA	E006	Chloride, total	mg/L	12/09/15 - 07/16/24	34	0	CB around linear reg	68.9	435

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
18S	UA	E006	Chromium, total	mg/L	12/09/15 - 07/16/24	29	61	CI around median	0.0015	0.00100
18S	UA	E006	Cobalt, total	mg/L	12/09/15 - 07/16/24	29	85	CI around median	0.001	0.0380
18S	UA	E006	Fluoride, total	mg/L	12/09/15 - 07/16/24	31	3	CB around T-S line	0.167	0.120
18S	UA	E006	Lead, total	mg/L	12/09/15 - 07/16/24	28	100	All ND - Last	0.0005	0.00150
18S	UA	E006	Lithium, total	mg/L	12/09/15 - 07/16/24	33	0	CB around T-S line	0.0333	0.0190
18S	UA	E006	Mercury, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.0002	0.0002
18S	UA	E006	Molybdenum, total	mg/L	12/09/15 - 07/16/24	33	0	CB around linear reg	0.0828	0.00170
18S	UA	E006	pH (field)	SU	12/09/15 - 07/16/24	37	0	CI around median	7.3/7.4	6.6/7.5
18S	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/16/24	28	0	CI around mean	0.352	1.50
18S	UA	E006	Selenium, total	mg/L	12/09/15 - 07/16/24	30	3	CB around T-S line	0.00454	0.00140
18S	UA	E006	Sulfate, total	mg/L	12/09/15 - 07/16/24	34	0	CB around T-S line	81.8	215
18S	UA	E006	Thallium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.002	0.001
18S	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 07/16/24	34	0	CI around geomean	569	1,620
18D	UA	E006	Antimony, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.003	0.001
18D	UA	E006	Arsenic, total	mg/L	12/09/15 - 07/16/24	28	97	CI around median	0.001	0.001
18D	UA	E006	Barium, total	mg/L	12/09/15 - 07/16/24	30	0	CB around T-S line	0.0625	0.212
18D	UA	E006	Beryllium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.001	0.001
18D	UA	E006	Boron, total	mg/L	12/09/15 - 07/16/24	34	0	CB around linear reg	1.14	0.163
18D	UA	E006	Cadmium, total	mg/L	12/09/15 - 07/16/24	29	94	CB around T-S line	0.000803	0.00230
18D	UA	E006	Chloride, total	mg/L	12/09/15 - 07/16/24	34	0	CI around mean	75.8	435
18D	UA	E006	Chromium, total	mg/L	12/09/15 - 07/16/24	28	94	CB around T-S line	0.0015	0.00100
18D	UA	E006	Cobalt, total	mg/L	12/09/15 - 07/16/24	30	3	CB around linear reg	-0.000149	0.0380
18D	UA	E006	Fluoride, total	mg/L	12/09/15 - 07/16/24	31	3	CI around median	0.15	0.120
18D	UA	E006	Lead, total	mg/L	12/09/15 - 07/16/24	28	91	CB around T-S line	0.000905	0.00150
18D	UA	E006	Lithium, total	mg/L	12/09/15 - 07/16/24	33	0	CB around linear reg	0.0227	0.0190
18D	UA	E006	Mercury, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.0002	0.0002
18D	UA	E006	Molybdenum, total	mg/L	12/09/15 - 07/16/24	33	0	CI around median	0.0315	0.00170

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
18D	UA	E006	pH (field)	SU	12/09/15 - 07/16/24	37	0	CI around median	7.2/7.2	6.6/7.5
18D	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/16/24	28	0	CI around mean	0.55	1.50
18D	UA	E006	Selenium, total	mg/L	12/09/15 - 07/16/24	29	94	CB around T-S line	0.001	0.00140
18D	UA	E006	Sulfate, total	mg/L	12/09/15 - 07/16/24	34	0	CB around linear reg	85.9	215
18D	UA	E006	Thallium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.002	0.001
18D	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 07/16/24	34	0	CB around T-S line	477	1,620
45S	UA	E006	Antimony, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.003	0.001
45S	UA	E006	Arsenic, total	mg/L	12/09/15 - 07/16/24	28	93	CI around median	0.001	0.001
45S	UA	E006	Barium, total	mg/L	12/09/15 - 07/16/24	30	0	CB around linear reg	0.0799	0.212
45S	UA	E006	Beryllium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.001	0.001
45S	UA	E006	Boron, total	mg/L	12/09/15 - 07/16/24	31	0	CB around linear reg	0.218	0.163
45S	UA	E006	Cadmium, total	mg/L	12/09/15 - 07/16/24	29	41	CB around linear reg	0.000587	0.00230
45S	UA	E006	Chloride, total	mg/L	12/09/15 - 07/16/24	31	0	CB around linear reg	87.1	435
45S	UA	E006	Chromium, total	mg/L	12/09/15 - 07/16/24	29	93	CB around T-S line	0.0015	0.00100
45S	UA	E006	Cobalt, total	mg/L	12/09/15 - 07/16/24	30	13	CI around geomean	0.00142	0.0380
45S	UA	E006	Fluoride, total	mg/L	12/09/15 - 07/16/24	31	3	CB around T-S line	0.242	0.120
45S	UA	E006	Lead, total	mg/L	12/09/15 - 07/16/24	28	79	CI around median	0.001	0.00150
45S	UA	E006	Lithium, total	mg/L	12/09/15 - 07/16/24	30	0	CB around linear reg	0.0109	0.0190
45S	UA	E006	Mercury, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.0002	0.0002
45S	UA	E006	Molybdenum, total	mg/L	12/09/15 - 07/16/24	30	0	CB around linear reg	0.0405	0.00170
45S	UA	E006	pH (field)	SU	12/09/15 - 07/16/24	31	0	CI around mean	7.1/7.2	6.6/7.5
45S	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/16/24	28	0	CI around geomean	0.508	1.50
45S	UA	E006	Selenium, total	mg/L	12/09/15 - 07/16/24	29	100	All ND - Last	0.0025	0.00140
45S	UA	E006	Sulfate, total	mg/L	12/09/15 - 07/16/24	31	0	CI around median	70	215
45S	UA	E006	Thallium, total	mg/L	12/09/15 - 07/16/24	27	100	All ND - Last	0.002	0.001
45S	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 07/16/24	31	0	CI around mean	528	1,620

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
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

Missing Code (if applicable):

NR¹ = Select parameters were not analyzed.

NS¹ = This well has been, or will be, abandoned; therefore, a sample was not collected.

NS² = Well either needs or was undergoing maintenance, therefore, a sample was not collected.

NS³ = A sample was not collected because the location was inaccessible.

NS⁴ = The location could not be found, therefore a sample was not collected.

NS⁵ = A sample was not collected because of damage to the well.

NS⁶ = A sample was not collected because of pump issues.

NS⁷ = A sample was not collected because the well was either dry or was purged dry and did not recover.

PM¹ = Select parameters were not analyzed as the well purged dry during sample collection and did not sufficiently recover to sample for all parameters.

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